HVAC/R SILICONE SEALANT (revised May 2006)

Material Safety Data Sheet

SECTION I - COMPANY IDENTIFICATION

PRODUCT: HVAC/R SILICONE SEALANT

CAT. NO.: VSC10-A, VSC 10-C, VSC 10-W

DISTRIBUTED BY:
Virginia KMP US – Parker Hannifin
1174 Security Drive
Dallas, Texas 75247-6182

TELEPHONE NUMBERS:
Office: 1-(214) 330-7731
Emergency Only: 1-(800) 424-9300

SECTION II - HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200)	EXPOSURE LIMITS: 8 HR. TWA	
	OSHA PEL	ACGIH TLV
Methyltriacetoxysilane (CAS# 4253-34-3)	**10 ppm**	**10 ppm**
Ethyltriacetoxysilane (CAS# 17689-77-9)	**10 ppm**	**10 ppm**
Silica, amorphous (CAS# 7631-86-9)	**8 mg/m3**	**10 mgm/m3 total dust**

Comments: Observe limits for acetic acid, formed during curing on exposure to water or humid air.

SECTION III - HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW: None.
POTENTIAL HEALTH EFFECTS:
INHALATION: Vapor overexposure may irritate eyes, nose, and throat.
EYE CONTACT: Direct contact irritates slightly to moderately with redness and swelling.
SKIN CONTACT: A single short exposure (less than 24 hrs.) may irritate. Repeated prolonged contact (24 to 48 hrs.) may irritate moderately.
INGESTION: Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may cause digestive discomfort.
CHRONIC Effects: None established.
NOTE: No injury from silica dust should occur during reasonable use. If use creates respirable particles, some respiratory system injury may occur.
CARCINOGENICITY: LISTED IN NTP? No IARC? No OSHA Regulated? No

SECTION IV - FIRST AID MEASURES

INHALATION: Remove to fresh air, get medical attention if ill effects persist.
EYE CONTACT: Flush eyes with water for 15 minutes. Get medical attention.
SKIN CONTACT: Wipe off and flush with water. Seek medical attention if irritation develops.
INGESTION: No first aid should be needed.

SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT (TEST METHOD): Not applicable.
FLAMMABLE LIMITS: **LOWER:** Not Determined **UPPER:** Not Determined
AUTOIGNITION TEMPERATURE: Not Determined
GENERAL HAZARD: No data.
FIRE FIGHTING INSTRUCTIONS: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
EXTINGUISHING MEDIA: Use Water, Carbon Dioxide, Chemical Foam.
HAZARDOUS COMBUSTION PRODUCTS: No data.

SECTION VI - ACCIDENTAL RELEASE MEASURES

LAND SPILL: Scoop up spills and place in containers.
WATER SPILL: Scoop up spills and place in containers. Product is insoluble in water.

SECTION VII - HANDLING AND STORAGE

HANDLING: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing and launder contaminated clothing before reuse. Rubber or plastic gloves recommended.
STORAGE: Store in cool, dry area. Store below 90F/32C. Keep closed when not in use.
OTHER PRECAUTIONS: Product forms acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid exposure within 10 ppm (currently TLV) or use respiratory protection. Traces of formaldehyde (carcinogen) may form if heated in air above 300F/149C. Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures.

HVAC/R SILICONE SEALANT (revised May 2006)

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust: recommended. Mechanical (General): recommended.
PERSONAL PROTECTION: Safety glasses as a minimum. Suitable respirator: Organic vapor type. Rubber or plastic gloves are recommended.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE @ 20 C: Less than 5 mm
SPECIFIC GRAVITY (H_2O=1): 1.03
SOLUBILITY IN WATER: Less than 0.1
pH: Not applicable.
BOILING POINT: Not applicable.
APPEARANCE & ODOR: Solid, acetic acid

VAPOR DENSITY (Air=1): Not applicable.
EVAPORATION RATE (H_2O=1): Not applicable.
VOC (LB/GAL): No data.
FREEZING POINT: Not applicable.

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: Oxidizing materials can cause a reaction, air or moisture causes curing and the liberation of acetic acid vapors.
MATERIALS TO AVOID: Exposure to air or moisture until ready to use.
HAZARDOUS DECOMPOSITION PRODUCTS: Silicon dioxide, carbon dioxide and traces of incompletely burned carbon products.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

Not applicable.

SECTION XII - ECOLOGICAL INFORMATION

No data.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste disposal method: All local, state, and Federal regulations concerning health and pollution should be reviewed to determine approved disposal procedures.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Not regulated material
HAZARD CLASS: NA
IDENTIFICATION NUMBER: NA
DOT Emergency Guide #: NA
Reportable Quantity (RQ): NA
International: NA

SECTION XV - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Not applicable.
CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): Not applicable.
SARA TITLE III (Superfund Amendments and Reauthorization Act): Sec. 312 Hazard Class: Immediate
Sec 313: Not applicable- either none present or none present in regulated quantities.
CALIFORNIA PROPOSITION 65: Not listed

SECTION XVI - OTHER INFORMATION

State Right-to-Know Programs: PA, MA, NJ
NFPA Ratings
- Health: 1
- Flammability: 1
- Reactivity: 0

HMIS Protective Equipment: X See your supervisor

Prepared by: Virginia KMP US – Parker Hannifin
This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Virginia KMP US. The data on this sheet related only to specific material designated herein. Virginia KMP assumes no legal responsibility for use or reliance upon these data.

DOW CORNING

DOW CORNING CORPORATION
Material Safety Data Sheet

Version: 1.3
Revision Date: 2006/01/23

DOW CORNING(R) HVAC/R SEALANT CLEAR

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

24 Hour Emergency Telephone: (989) 496-5900
Customer Service: (989) 496-6000
Product Disposal Information: (989) 496-6315
CHEMTREC: (800) 424-9300

MSDS No.: 04045032
Revision Date: 2006/01/23

Generic Description: Silicone elastomer
Physical Form: Paste
Color: Colorless
Odor: Acetic acid odor

NFPA Profile: Health 2 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

CAS Number	Wt %	Component Name
17689-77-9	1.0 - 5.0	Ethyltriacetoxysilane
4253-34-3	1.0 - 5.0	Methyltriacetoxysilane

The above components are hazardous as defined in 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Acute Effects

Eye: Direct contact may cause moderate irritation.

Skin: May cause moderate irritation.

Inhalation: Irritates respiratory passages very slightly.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: No known applicable information.

Inhalation: No known applicable information.

Oral: No known applicable information.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

4. FIRST AID MEASURES

Eye:	Immediately flush with water for 15 minutes. Get medical attention.
Skin:	Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
Inhalation:	No first aid should be needed.
Oral:	No first aid should be needed.
Comments:	Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable.
Autoignition Temperature:	Not determined.
Flammability Limits in Air:	Not determined.
Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire Hazards:	None.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up:	Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. Avoid eye contact.

Keep container closed and store away from water or moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
17689-77-9	Ethyltriacetoxysilane	See acetic acid comments.
4253-34-3	Methyltriacetoxysilane	See acetic acid comments.

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Engineering Controls

Local Ventilation:	None should be needed.
General Ventilation:	Recommended.

Personal Protective Equipment for Routine Handling

Eyes:	Use proper protection - safety glasses as a minimum.
Skin:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Suitable Gloves:	Silver Shield(R). 4H(R).

Inhalation:	No respiratory protection should be needed.
Suitable Respirator:	None should be needed.

Personal Protective Equipment for Spills

Eyes:	Use proper protection - safety glasses as a minimum.
Skin:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Inhalation/Suitable Respirator:	No respiratory protection should be needed.
Precautionary Measures:	Avoid eye contact. Use reasonable care.
Comments:	Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Paste
Color:	Colorless
Odor:	Acetic acid odor
Specific Gravity @ 25°C:	1.04
Viscosity:	Not determined.
Freezing/Melting Point:	Not determined.
Boiling Point:	Not determined.
Vapor Pressure @ 25°C:	Not determined.
Vapor Density:	Not determined.
Solubility in Water:	Not determined.
pH:	Not determined.
Volatile Content:	Not determined.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	None.

Materials to Avoid:	Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8.

11. TOXICOLOGICAL INFORMATION

Special Hazard Information on Components

No known applicable information.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

Call (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 355):
None.

Section 304 CERCLA Hazardous Substances (40 CFR 302):
None.

Section 311/312 Hazard Class (40 CFR 370):

Acute:	Yes
Chronic:	No
Fire:	No
Pressure:	No
Reactive:	No

Section 313 Toxic Chemicals (40 CFR 372):
None present or none present in regulated quantities.

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

Massachusetts

CAS Number	Wt %	Component Name

7631-86-9	7.0 - 13.0	Silica, amorphous

New Jersey

CAS Number	Wt %	Component Name
70131-67-8	> 60.0	Dimethyl siloxane, hydroxy-terminated
7631-86-9	7.0 - 13.0	Silica, amorphous
17689-77-9	1.0 - 5.0	Ethyltriacetoxysilane
4253-34-3	1.0 - 5.0	Methyltriacetoxysilane

Pennsylvania

CAS Number	Wt %	Component Name
70131-67-8	> 60.0	Dimethyl siloxane, hydroxy-terminated
7631-86-9	7.0 - 13.0	Silica, amorphous

16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

(R) indicates Registered Trademark

MSDS Document

Product BOSS® 370 HVAC/R Silicone Sealant

1. Chemical Product and Company Identification

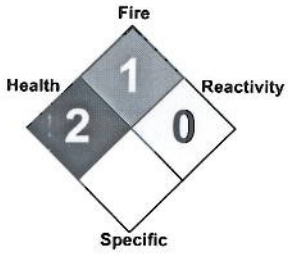
Trade Name of this Product BOSS® 370 HVAC/R Silicone Sealant

Synonyms: 02260CL10

MSDS ID BOSS370

Manufacturer
Accumetric, LLC
350 Ring Road
Elizabethtown, KY 42701

Phone Number
(270) 769-3385
Emergency Phone
CHEMTREC (800) 424-9300
Revision Date 5/9/2007



2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
Methyltriacetoxysilane	4253-34-3	1% - 5%	TWA 10ppm	TWA 10ppm	15ppm
Ethyltriacetoxysilane	17689-77-9	1% - 5%	TWA 10ppm	TWA 10ppm	15ppm

3. Hazard Identification

Primary Routes of Entry
Eye contact, inhalation, skin contact

Eye Contact
Direct contact may cause moderate irritation.

Skin Contact
May cause moderate irritation.

Ingestion
No significant effects expected from a single short term exposure.

Inhalation
Irritates respiratory passages very slightly.

Symptoms of Overexposure
No known applicable information.

Existing Conditions Aggravated by Exposure
No known applicable information.

4. First Aid Information

Eye Contact
Flush with warm water for several minutes. Obtain medical attention.

Skin Contact
Remove from skin and wash throughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

Inhalation
Remove to fresh air. No first aid should be needed.

Ingestion
No first aid should be needed.

Comments
Treat according to person's condition and specifics of exposure.

5. Fire Fighting Measures

Flash Point Not Applicable

Auto-ignition Temperature
Not determined

Flammability Limits in Air
Not determined

Extinguishing Media
On large fires use dry chemical, foam, or water spray. On small fires use carbon dioxide, dry chemical or water spray. Water can be used to cool fire exposed containers.

Special Fire Fighting Procedures
Self-contained breathing apparatus and protective clothing should be worn when fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire or Explosion Hazards
None known

Hazardous Decomposition Products
Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products:
Carbon oxides and traces of incompletely burned carbon compounds
Formaldehyde
Hydrogen
Silicon dioxide
Metal oxides

Comment
When temperatures above 150°C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limits for formaldehyde.

6. Accidental Release Measures

Steps to be taken in case of spill or release
Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. For small spills, wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled material, even in small quantities, may present a slip hazard. Final cleaning may require the use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.

Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

7. Handling and Storage

Handling
Use adequate ventilation. Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact.

Storage
Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.

8. Exposure Controls and Personal Protection

Exposure Controls
Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to

control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Eye Protection
Safety goggles or glasses with side shields are recommended.

Skin Protection
Wash at mealtimes and end of shift. Contaminated clothing and shoes should be removed as soon as practical and throughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves:
Silver Shield® 4H®

Respiratory Protection
No respiratory protection should be needed with good local ventilation.

Note
These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry (www.SEHSC.com).

9. Physical and Chemical Properties

Physical State	Paste
Specific Gravity	1.032
Color/Appearance	Various
Odor	Acetic Acid Odor
pH	Not Determined
Boiling/Cond. Point	Not Determined
Melting/Freezing Point	Not Determined
Solubility	Not Determined
Evaporation Rate	Not Determined
VOC %	29 g/L
Viscosity	Not Determined
Vapor Density	Not Determined
Vapor Pressure	Not Determined

Note
The above information is not intended for use in preparing product specifications. Contact Accumetric LLC before writing specifications.

10. Stability and Reactivity

Chemical Stability
Stable

Hazardous Polymerization
Will not occur

Conditions to Avoid
None known

Materials to Avoid / Incompatibility
Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form.

11. Toxicological Information

Special Hazard Information on Components
No known applicable information.

12. Ecological Information

Environmental Fate and Distribution
Complete information is not yet available.

Environmental Effects
Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants
Complete information is not yet available.

13. Disposal Considerations

Waste Disposal Method
We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

This product is not known to be regulated under RCRA regulations. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.

14. Transportation Information

DOT Road Shipment Information
Not subject to DOT.

Ocean Shipment (IMDG)
Not subject to IMDG code.

Air Shipment (IATA)
Not subject to IATA regulations.

15. Regulatory Information

The contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR

1910.1200.

TSCA Status
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA Title III Section 302 Extremely Hazardous Substances
None

SARA Title III Section 304 CERCLA Hazardous Substances
None

SARA Title III Section 312 Hazard Class
Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No

SARA Title III Section 313 Toxic Chemicals
Depending on color, may contain:
Alumina hydrate (21645-51-2)
Aluminum (7429-90-5)

California Proposition 65
This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm:
None known

Massachusetts
Silica, amorphous (7631-86-9)

Depending on color, may also contain:
Alumina hydrate (21645-51-2)
Aluminum (7429-90-5)
Carbon black (1333-86-4)
Titanium dioxide (13463-67-7)

New Jersey
Dimethyl siloxane, hydroxy-terminated (70131-67-8)
Silica, amorphous (7631-86-9)
Methyltriacetoxysilane (4253-34-3)
Ethyltriacetoxysilane (17689-77-9)

Depending on color, may also contain:
Alumina hydrate (21645-51-2)
Aluminum (7429-90-5)
Carbon black (1333-86-4)
Mineral Oil (8042-47-5)
Polydimethylsiloxane (63148-62-9)
Titanium dioxide (13463-67-7)

Pennsylvania
Dimethyl siloxane, hydroxy-terminated (70131-67-8)
Silica, amorphous (7631-86-9)

Depending on color, may also contain:
Alumina hydrate (21645-51-2)
Aluminum (7429-90-5)
Carbon black (1333-86-4)
Mineral Oil (8042-47-5)
Polydimethylsiloxane (63148-62-9)
Titanium dioxide (13463-67-7)

16. Other Information

Disclaimer
The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements to suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Name: REFRIGERANT (R414b)
Chemical Family: Halogenated Hydrocarbons
Formula: Mixture of CHClFCF3, CH3CClF2, CH(CH3)2-CH3, CHClF2
Synonyms: N/A
Hazard Class: 2.2
Other Identifying Data: This product is a direct replacement for CFC-12 & HFC-134a, without modification of the user's equipment.

CAS Name:	**CAS Registry No.**
Chlorodifluoromethane	000075-45-6
1-Chloro-1, 1-difluoroethane	000075-68-3
Isobutane	068476-85-7
2-Chloro-1,1,1,2-Tetrafluoroethane	002837-89-0

Manufacturer / Distributor:

U.S.	**CANADA**
ICOR International Inc	Environment Specialty Products
10640 East 59th Street, PO Box 36626	841 Brock Rd. South,
Indianapolis IN 46236	Pickering ON LIW 3J2
EMER:1-800-457-4280 CHEMTREC, 24 Hrs	1-613-996-6666 CANUTEC, chemical emer. only
INFO: 1-800-497-6805 (weekdays 7:30am-4:00pm)	1-800-495-4062 (weekdays 9:00am-5:00pm)

PHYSICAL DATA

Boiling Point:	-29.8°F		Pure or Mixture:	Mixture
Vapour Pressure:	NDA		Melting Point (F):	NDA
Evaporation Rate:	NDA	(Butyl Acetate =1)	pH:	NA
Vapour Density (Air =1)	>1		Ignition Temperature:	1170°F
Solubility in H_2O:	very slight		Physical State:	Gas
Specific Gravity:	1.1			

HAZARDOUS COMPONENTS:

Material(s):	Approximate weight %
Chlorodifluoromethane	50
1-Chloro-1, 1-difluoroethane	9.5
Isobutane	1.5
2-Chloro-1,1,1,2-Tetrafluoroethane	39

HAZARDOUS REACTIVITY: AVOID INTENSE HEAT AND OPEN FLAME

Stability: Material is normally stable. However, avoid open flames and high temperatures.
Incompatibility (materials to avoid): Strong oxidants, including oxygen, freshly scraped aluminium, alkali metals, and alkali earth metals (sodium, magnesium, etc.) may cause exothermic reaction. The aluminum in refrigeration systems contains an oxide/chloride coating to prevent reaction with metal.
Hazardous decomposition products:
Hydrofluoric and hydrochloric acids, chlorine, fluorine, possibly phosgene, carbon dioxide, and carbon monoxide.
Polymerization: Will not occur.
Other Reactivity Data: Cylinders of used product may contain oil as well as refrigerant. A liquid leak or venting during a fire will produce a cloud of oil mist that is very flammable.

FIRE AND EXPLOSION DATA:

Flash point:	NA
Flammability Classification:	will not burn
Health Hazard Code:	Nonhazardous
Flammable Limits in Air	LEL: NA % UEL: NA %
Extinguishing Media:	Stop Flow of Gas, Use Class A Ext. Agent, Use Class B Ext. Agent, Water may be used to blanket fire. **EXPLODES ON HEATING**
Unusual Fire/Explosion Hazards:	Cylinders may vent or rupture in fire conditions, leading to decomposition. Vapours may decompose if exposed to direct flame conditions. The vapour may displace oxygen making breathing difficult and causing light-headedness or suffocation.
Special Fire Fighting Procedures:	The material is not flammable and does not support combustion. The choice of fire extinguishing media depends on the surrounding materials involved in the fire. Use self-contained breathing apparatus and full protective gear. Use water spray to cool fire-exposed containers.

HEALTH HAZARD INFORMATION:

Immediate: The greatest hazard is contact with escaping gas which can cause frostbite and damage to exposed tissue. The escaping gas may displace oxygen and cause light-headedness, eye irritation and suffocation.
Long Term: Exposure to high concentrations may lead to cardiac irregularities, unconsciousness or death.
Other Hazards: None listed

FIRST AID

Inhalation: Remove to fresh air, call a physician. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do not give epinephrine or similar drugs.
Note to physicians: Because of possible increased risk or eliciting cardiac dysrythmias, catecholamine drugs, such as epinephrine, should be considered only as a last resort in life threatening emergencies.
Eyes: Flush immediately with water for at least 15 minutes. Call a physician.
Skin: Warm the area gradually by flushing with plenty of water. Call a physician
Swallowed: DO NOT INDUCE VOMITTING, Call a physician
Medical Conditions Aggravated by Exposure: Persons subject to cardiac problems may be at increased risk by exposure.

PRECAUTIONS / PROCEDURES:

Spill or leak: Remove or extinguish ignition or combustion sources. Evacuate enclosed spaces until gas is dispersed. Keep upwind. Stop the release of gas, if possible without risk. Disperse the gas with floor level forced-air ventilation. Exhaust vapours outdoors. Contain the spill by building a dike using absorbent material. Collect the remainder of the spill with absorbent material and place into a drum for waster disposal or recovery. Wash contaminated clothing before reuse.
Work/Hygiene Practices: Use insulated or lined butyl gloves, face shield or goggles, and impervious clothing.
Special Measures: Good general ventilation is usually adequate, but local ventilation may be needed if gas is vented to atmosphere. Use self-contained breathing apparatus if local ventilation is not adequate.

SHIPPING INFORMATION:

DOT	Proper shipping name: LIQUEFIED GAS, N.O.S. Hazard Class: 2.2 DOT Identification: UN3163 Do not heat above 120°F
Other information:	Date revised: 03-01-04

Chemtronics

OSHA

Safety Data Sheet

R22 Refrigerant

IDENTIFICATION

Name:
R22
Synonyms:
Chlorodifluoromethane, Freon® 22, Refrigerant 22

Chemical Family:
Halogenated Hydrocarbon

Formula:
$CHClF_2$

CAS Name:
Methane, Chlorodifluoro

CAS Registry No.:
75-45-6

Manufacturer:
Chemtronics Inc.
681 Old Willets Path
Hauppauge, NY 11788

Medical/Transportation Emergency Phone:
516-582-3322

PHYSICAL DATA

Boiling Point (°F): –41.4
Density: 1.194 g/cc @ 77°F
Vapor Density (Air=1): 2.98
Form: Liquefied gas
Color: Colorless
Percent Volatile by Volume: 100

Vapor Pressure: 138 psig @ 77°F
Solubility in H_2O: 0.30% by wt. @ 77°F
Appearance: Clear
Odor: Slight etheral odor

HAZARDOUS COMPONENTS

Material:	Approximate %:
Chlorodifluoromethane	100%

HAZARDOUS REACTIVITY

Stability: Material is stable. However, avoid open flames and high temperatures.

Decomposition: R22 can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming hydrochloric and hydrofluoric acids—possibly carbonyl halides.

Incompatibility: Alkali or alkaline earth metals—powered Al, Zn, Be, etc.

Polymerization: Will not occur.

FIRE AND EXPLOSION DATA

Flash Point: None

Method: TOC

Autoignition Temperature: 1170°F

Flammable Limits in Air, % by Vol.:
Lower: Nonflammable
Upper: Nonflammable

Autodecomposition Temperature: > 800°F

Fire and Explosion: Cylinders are equipped with pressure and temperature relief devices but still may rupture under fire conditions. Decomposition may occur.

Extinguishing Media:
Nonflammable

Special Fire Fighting Instructions: Other burning material may cause R22 to burn weakly. Extinguishant for other burning material in area is sufficient to stop burning. Self-contained breathing apparatus (SCBA) may be required if cylinders rupture or contents are released under fire conditions.

HEALTH HAZARD INFORMATION

Principal Health Hazards:
Inhalation: Vapor is heavier than air and can cause suffocation by reducing oxygen available for breathing. Breathing high concentrations of this product can cause light-headedness, giddiness, shortness of breath, possible narcosis, possible cardiac irregularities, unconsciousness or death. LC 50 Rats 300,000 ppm/2 hr.

Eye: Liquid contact can cause frostbite. No other information found.

Skin: Liquid contact can cause frostbite. No other information found.

Note: In screening studies with experimental animals, exposure at approximately 50,000 ppm (v/v) and above, followed by a large intravenous epinephrine challenge, has induced serious cardiac irregularities.

Exposure Limits:

Material:	*TLV (ACGIH):*	*PEL (OSHA):*
Chlorodifluoromethane	N/A	1,000 ppm

Safety Precautions: Avoid breathing vapors and liquid contact with the skin or eyes. Use only in well ventilated area.

First Aid:
Inhalation: Remove to fresh air, call a physician. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Do not give epinephrine or similar drugs.

Eye: Flush with water. Call a physician.

Skin: Flush with water. Treat for frostbite if necessary.

Note to Physicians: Because of a possible increased risk of eliciting cardiac dysrythmias, catecholamine drugs, such as epinephrine, should be considered only as a last resort in life threatening emergencies.

Medical Conditions Possibly Aggravated by Exposure:
Cardiovascular Disease: See Principal Health Hazards, Inhalation Section.

Other Health Hazards:
R22 is not listed as a carcinogen by IARC, NTP or OSHA. In chronic inhalation studies, it has produced a small incidence of tumors in male rats, but not female rats or male or female mice, at a concentration of 50,000 ppm (v/v). In the same studies no effects were seen in any animals at a concentration of 10,000 ppm (v/v). Moreover, based on animal studies and human experiences this product poses no hazard to man relative to systemic toxicity, carcinogenicity, mutagenicity, or teratogenicity when occupational exposures are below its TLV.

PROTECTION INFORMATION

Generally Applicable Control Measures: Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low places.

Personal Protective Equipment: Lined butyl gloves should be used when handling liquid. Chemical splash goggles should be worn when handling liquid. Under normal manufacturing conditions, no respiratory protection is required when using this product. Self-contained breathing apparatus (SCBA) is required if a large release occurs.

DISPOSAL INFORMATION

Spill, Leak or Release: Ventilate area—especially low places where heavy vapors might collect. Remove open flames.

Waste Disposal: Reclaim by distillation. Comply with federal, state and local regulations.

SHIPPING INFORMATION

Domestic—Other Than Air (DOT):
Proper Shipping Name: Chlorodifluoromethane
Hazard Class: 2
UN No.: 1018
DOT Label: Nonflammable gas
DOT Placard: Nonflammable gas

International Water or Air (IMO/ICAO):
Proper Shipping Name: Chlorodifluoromethane
Hazard Class: 2
UN No.: 1018
IMO/ICAO Label: Nonflammable gas

OTHER INFORMATION

Shipping Containers: Cylinders

Storage Conditions: Clean, dry area. Do not heat above 125°F.

Date Revised: 8/87
Person Responsible: Hal Alper, Technical Director

Chemtronics Inc.
681 Old Willets Path
Hauppauge, NY 11788
(516) 582-3322

The information contained herein is based on current technical data and tests which we believe to be accurate and reliable. It is intended for use by persons having technical knowledge and skill, at their own discretion and risk. We can assume no liability for results obtained or damages incurred through improper use of product or application of data. Contact Chemtronics for further information.

*Registered trademark of E.I. Du Pont De Nemours & Company (Inc.)

GEMLINE®

GEMLINE PART NUMBER: CE738 & CE739
BUBBLE LEAK DETECTOR

MATERIAL SAFETY DATA SHEET

ISSUE DATE: 1/2/90
SUPERSEDES:

Gem Products, Incorporated
12472 Edison Way
Garden Grove, California 92641

Telephone: (714)898-2788

PRODUCT CODE:

* NA = Not Applicable NE = Not Established

SECTION I : NOMENCLATURE

CHEMICAL NAME AND SYNONYMS
BUBBLE LEAK DETECTOR

SECTION II : HAZARDOUS INGREDIENTS

HAZARDOUS MATERIAL

No halogens present, (chlorine, bromine, iodine, fluorine or astatine)

No metals present.

Fully concentrated 100% solution PH 9.6.

SECTION III : PHYSICAL DATA

SPECIFIC GRAVITY	1.0357
PCT VOLATILE BY VOL	56
VAPOR DENSITY	1.2
SOLUBILITY IN WATER	Miscible

SECTION IV : FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	none greater than 200° F.
LOWER EXPLO LEVEL	N/A
EXTINGUISHING MEDIA	N/A
UNUSUAL HAZARDS	N/A
SPECIAL FIRE FIGHTING PROCEDURES	N/A

SECTION V : HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
None

EFFECTS OF OVEREXPOSURE
None, no adverse ocular or dermal effect.

EMERGENCY AND FIRST AID PROCEDURES
Flush with water if sprayed directly into eyes or ingested, no special procedures required.

SECTION VI : REACTIVITY DATA

CONDITIONS TO AVOID

Strong oxidizing agents
Product freezes at 31 degrees F.

STABILITY

Stable

INCOMPATIBILITY

None

HAZARDOUS DECOMPOSITION PRODUCTS

None

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION VII : SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED.

Rinse with water.

WASTE DISPOSAL METHOD

Standard sewage treatment methods.

SECTION VIII : SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	No special respiratory protection required.
VENTILATION - LOCAL EXHAUST	Not required.
PROTECTIVE GLOVES	Not required
EYE PROTECTION	No special required, normal safety
OTHER PROTECTIVE EQUIPMENT	None.

SECTION IX : SPECIAL PRECAUTIONS

STORAGE AND HANDLING

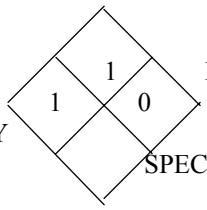
No special precautions required.

SOURCE:

MATERIAL SAFETY DATA SHEET

HMIS SYMBOL		HMIS		NFPA	
HEALTH	1	SEVERE	4	EXTREME	FIRE
FLAMMABILITY	1	SERIOUS	3	HIGH	
REACTIVITY	0	MODERATE	2	MODERATE	
		SLIGHT	1	SLIGHT	TOXICITY
		MINIMAL	0	INSIGNIFICANT	

NFPA SYMBOL



MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATIONS STANDSRD (HSC) 29 CFR 1910.1200

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SECTION I - PRODUCT IDENTIFICATION

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Product name / Identity : ZOOM-SPOUT OILER DO-1
A-1 Components Product Code #: 6403
Product use : Oil
Chemical family : Petroleum Hydrocarbonate
Supplier name and address :

A-1 COMPONENTS CORP.
625 West 18th St.
Hialeah, Florida 33010
Phone # : (305) 885-1911

Manufacturer name and address:

Same as
Supplier

Emergency Telephone Numbers, 24-hour : INFOTRAC 1-800-535-5053

WHMIS CLASS: D2B

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SECTION II - HAZARDOUS INGREDIENTS

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Ingredients	CAS #	wt.%	LC50 ppm (Rat, ihl.)	LD50 mg/kg (Rat, oral)
Oil mist	64742-65-0	95-99.99	n/av	n/av

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SECTION III - PHYSICAL DATA

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Physical State : Liquid
Odor and appearance : Clear, yellow characteristic odor.
Odor threshold : n/ap
Specific gravity : 0.866
Coefficient of water/oil distribution : n/av
Vapor pressure (mm Hg at 20^{O}C) : n/av
Boiling point : above 555°F (291°C)
Freezing/Melting Point : n/av
pH : n/ap
Vapor density (Air = 1) : Heavier than air
Evaporation rate (BuAe = 1) : Slower than ether
Volatiles, wt.% : Negligible
Viscosity: 31.5 CST, @ 40°C
Solubility in water: Negligible

SECTION IV - FIRE AND EXPLOSION DATA

Conditions of flammability :. This material will burn but will not ignite readily.
Means of extinction : Dry chemical, CO@, water spray, foam, sand or earth. Water or foam may cause frothing.
Sensitivity to mechanical impact/static discharge : n/av
Flash point (Method) : 365°F (202°C) (COC)
Upper flammable limit % : n/ap
Lower flammable limit % : n/ap
Auto-ignition temperature : n/ap
Special Fire Fighting Procedures: Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes. Move undamaged containers from fire area if you can do so without risk**.**
Hazardous Combustion Products: Refer to "Hazardous Decomposition Products".
Unusual Fire and Explosion Hazards:

SECTION V - REACTIVITY DATA

Stability : Stable under ambient pressure and temperature. Hazardous polymerization will not occur.
Incompatible materials : Strong oxidizing agents. Avoid contact with any source of ignition. Extended exposure to hugh temperatures may cause decomposition.
Conditions of reactivity: n/ap
Hazardous decomposition products : Thermal decomposition in the presence of air may yield major amounts of oxides of carbon and minor amounts of oxides of sulphur and nitrogen.

SECTION VI - TOXICOLOGICAL PROPERTIES

***** Routes of exposure and acute/chronic effects *****

Exposure limit : TLV-TWA Oil mist 5 mg/m3
Irritancy of Product: Inhalation, ingestion, skin and eye contact.
Inhalation : Exposure of mists, or prolonged or repeated exposure to fumes or vapors that may be generated when this material is heated, may cause irritation of nose and throat..
Skin :This material can cause skin irritation. Prolonged or repeated contact may cause redness, burning, or dermatitis.
Eyes : This material may cause eye irritation. Direct contact may cause burning, tearing, and redness.
Ingestion : Accidental ingestion of this material may cause irritation of the digestive tract**.**
Chronic effects : None.
Carcinogenicity: Not listed by IARC and ACGIH as carcinogenic.
Reproductive effects, Teratogenicity, Mutagenicity: n/av.
Sensitization to Product: None known.
Name of Toxicologically Synergistic Products: n/av

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SECTION VII FIRST AID

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Inhalation : Move victim from source of exposure if irritation of nose or throat develops. If symptoms of exposure develop, seek medical attention. If victim is not breathing, artificial respiration should be administered. Seek medical attention immediately.
Eyes : Immediately move victim away from exposure. For direct contact, flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention immediately.
Skin : Do not use gasoline, thinners or solvents to remove product from skin. Wipe material from skin and remove contaminated clothing. Cleanse affected area thoroughly with soap and water if necessarily a waterless hand cleaner. . If irritation or redness develops and persists, seek medical attention immediately.
Ingestion : If victim is conscious and alert, give 2 to 3 cups of water or milk to drink. Seek medical attention immediately.
NOTE TO PHYSICIAN: Emesis of lavage is not recommended for ingestions of minute quantities or tastes of most hydrocarbons. Medical opinion is divided for large ingestions. Emesis of lavage has been recommended for these petroleum products which have a high oral toxicity. Gastric lavage with a cuffed endotracheal tube is recommended by some physicians to prevent aspiration.

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SECTION VIII - PREVENTIVE MEASURES

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Spill, leak or release : Collect leaking fluid in sealable containers. Absorb spilled liquid in sand or inert absorbant. Contact fire authorities and appropriate local/provincial agencies.
Waste disposal : Review federal, provincial and local government requirements prior to disposal.

*** PROTECTIVE EQUIPMENT ***

Respiratory protection : If airborne concentrations exceed recommended exposure limits, a suitable filter-type respirator should be worn.
Ventilation : If current ventilation practices are not adequate to maintain airborne concentration below established exposure limits (see Section VI), additional ventilation or exhaust system may be required.
Protective gloves : Impermeable to the specific material handled is advised to prevent skin contact and possible irritation.
Eye protection : Approved eye protection to safeguard against potential eye contact.
Other protective equipment : Eye wash and quick drench shower facilities should be available in the work area. Barrier creams that are specific for oil-based materials are recommended when gloves are impractical.

*** STORAGE & HANDLING ***

Storage and handling conditions :
Handling: Avoid generating oil mists while handling. Avoid prolonged or repeated skin contact**.** wash thoroughly after handling. Do not wear oil-soaked clothing or shoes.
Storage: Store in a cool, dry location. Store in original container. Keep container closed when not in use.
Special Shipping Information: TDG - Not Regulated

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Additional notes or references :

Abbreviations :
n/av : not available
n/ap : not applicable
IARC : International Agency for Research on Cancer
ACGIH : American Conference of Governmental Industrial Hygienists
TLV : Threshold Limit Values
NIOSH: National Institute of Occupational Safety and Health
STEL: Short Term Exposure Limit
TDG : Transportation of Dangerous Goods Act.

References :

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 1993-94.
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988.
3. Canadian Centre for Occupational Health and Safety. Cheminfo Database.
4. N. Irving Sax. Dangerous Properties of Industrial Materials. Seventh Edition.

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SECTION IX PREPARATION INFORMATION

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Prepared by : A-1 COMPONENTS CORP.
Telephone # : (305) 885-1911
Preparation date : December 16, 2005

MATERIAL SAFETY DATA SHEET
PRO-TREAT 200

CATALOG NO. PT-200, PT-236

SECTION I-IDENTIFICATION

HAZARD RATINGS
HMIS DATA
HEALTH 2 **0=MINIMAL**
FIRE 1 **1=SLIGHT**
REACTIVITY 1 **2 =MODERATE**
3=HIGH
4=EXTREME
Personal Protection Index B

MANUFACTURED BY: Diversitech, Inc
ADDRESS: 2530 Lantrac Court
Decatur, GA 30035
EMERGENCY Phone No**. 800-255-3924** Chem-Tel (Chemical Emergencies Only)
PHONE NUMBER FOR INFORMATION: **800-995-2222**
DATE REVISED: 3/29/2006
NAME OF PREPARER: ANTHONY E. JERNIGAN

SECTION II HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO	OSHA PEL	ACIGH TLV	OTHER STEL	**% or** RNG
Tetradecyl Dimethylbenzyl ammonium chloride	**139-08-2**	**LD50: 18 mg/kg (mouse)**			**<25%**

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >112°C
Vapor pressure (mm Hg): < 0.1
Vapor Density (Air = 1): N/A
Solubility in water: 100
Specific gravity (H_2O = 1): 1.-25-1.35
Melting Point (Pour Point): >40°C
Evaporation Rate (Water = 1): N/A

Appearance and odor: Blue tablet with a characteristic cationic surfactant odor.

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None
Flammable Limits: None

Extinguishing media: Not applicable

Special Fire Fighting Procedures: Keep containers cooled with a water spray if involved in a fire.

Unusual Fire and Explosion Hazards: This product may evolve toxic fumes (ammonia, hydrogen chloride if heated to decomposition.

SECTION V – REACTIVITY DATA

Stability-Stable
Conditions to avoid: None

Incompatibility (Materials to avoid): Strong oxidizers, strong acids, formaldehyde, anionic surfactants & soap

Hazardous Decomposition or Byproducts: May evolve carbon monoxide, carbon dioxide, hydrogen chloride, ammonia gas and other unidentified fragments if this product is involved in a fire.

Hazardous Polymerization: Will not occur.

PRO-TREAT 200 MSDS

SECTION VI– HEALTH HAZARD DATA

Routes of Entry: Inhalation: no Skin: yes Ingestion: yes Eyes: yes

Health Hazards (acute and chronic): Pro-Treat 200 is moderately toxic if ingested. Eye contact causes extreme irritation. May cause skin irritation in sensitive individuals.
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Signs and symptoms of exposure:

Inhalation: Dust may cause chemical pnuemonitis. This product is not toxic by inhalation.
Skin: Minimally irritating. Prolonged contact may cause dermatitis or drying of skin.
Ingestion: **Do not take internally.** If ingested, it may damage throat and digestive tissue. Swallowing may cause diarrhea, nausea, vomiting, unconsciousness.
Eyes: May cause severe eye irritation, permanent damage or blindness.

Medical Conditions Aggravated by Exposure: Contact with skin or eyes, or breathing dust can cause eye skin or tissue damage or affect individuals with respiratory disorders.
Emergency and First Aid Procedures:

Eyes: Flush with water for 15 minutes. Consult a physician if irritation persists
Skin: Remove contaminated clothing. Wash the affected area with soap and water. Launder or dry clean clothes before reuse..
Inhalation: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well ventilated area, then seek medical aid immediately.
Ingestion: DO NOT induce vomiting. Force fluids. Contact the nearest Poison Control Center

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:
Wear recommended protective clothing. Remove contaminated garments promptly. Sweep up tablets and dispose of contaminated product in accordance with local, state, and federal regulations. Undamaged product may be recovered and used according to label instructions.
DO NOT contaminate municipal sewers or other open bodies of water with runoff form cleanup.

WASTE DISPOSAL METHODS: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with governmental regulations.

HANDLING AND STORAGE:
Avoid contact with skin and eyes. Avoid breathing dust. Keep containers closed when not in use. Store in a dry, cool, area
Empty containers may retain residue. All containers should be disposed of in an environmentally safe manner, and in accordance with all governmental regulations.
Keep this and all chemicals out of the reach of children.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): Use in a well-ventilated area. If dust is being generated and exceeds the TLV, a respiratory program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.
Ventilation: Local exhaust is recommended when used in enclosed areas.
Protective Gloves: Neoprene, latex or other materials may be used if there is documented evidence of compatibility.
Eye protection: Safety glasses (ANSI Z87.1) or approved equivalent as necessary to minimize eye contact hazards.
Other Protective Clothing: Neoprene aprons, overshoes, oversleeves or other impervious clothing as necessary to minimize exposure.

Work Hygienic Practices: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating or smoking.

SECTION IX – ADDITIONAL INFORMATION

Transportation Information:
DOT HAZARD LABEL: None
DOT Description: Cleaning Compound, NOI, other than liquid
TSCA: All ingredients are TSCA listed
SARA TITLE III Reporting Requirements:

Section 302: EHS reporting not required
Section 304: Hazardous releases reporting not required
Section 311: Community Right To Know reporting is required if the inventory is above the Threshold Planning Quantity.
Section 312: R-T-K Inventory data reporting is not required.
Section 313: Emissions and release reporting may be required for users of this product within the manufacturing sector. This does not apply to service companies.

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

1 Identification of substance

· **Product details**

· **Trade name: Acetylene**

· **Article number:** 030-01-0003BOC

· **Creation date:** 08/09/2006

· **Manufacturer/Supplier:**
BOC Canada Limited
5860 Chedworth Way
Mississauga, Ontario L5R 0A2
www.bocgases.ca

TELEPHONE NUMBER: (905) 501-1700
24-HOUR EMERGENCY TELEPHONE NUMBER: (905) 501-0802
EMERGENCY RESPONSE PLAN NO: 2-0101

Please ensure that this MSDS is received by the appropriate person

· **Information department:** Customer Service Centre: 1-866-385-5349

2 Composition/Data on components

· **Chemical characterization:**
· **CAS No. Description**
74-86-2 Acetylene
· **Identification number(s)**
· **EINECS Number:** 200-816-9
· **EU Number:** 601-015-00-0

*

3 Hazards identification

· **Hazard description:**

Highly flammable

· **WHMIS-symbols:**
A - Compressed gas
B1 - Flammable gas

· **HMIS-ratings (scale 0 - 4)**

HEALTH 1	Health = 1
FIRE 4	Fire = 4
REACTIVITY 3	Reactivity = 3

(Contd. on page 2)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 1)

· **NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 4
Reactivity = 3

· **Information pertaining to particular dangers for man and environment:**
Heating may cause an explosion.
Highly flammable.
· **Classification system:**
The classification is in line with internationally approved calculation standards. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

*

4 First aid measures

· **After inhalation:**
Supply fresh air. If required, provide artificial respiration and consult doctor. Keep patient warm.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Not applicable

*

5 Fire fighting measures

· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
In the case of fires caused by ignited acetylene leaks:
- DO NOT extinguish unless it is possible (without risk) to shut-off gas flow; explosive vapours could form and re-ignition may occur.
Evacuate area as soon as possible.
· **Protective equipment:** Wear self-contained respiratory protective device.

*

6 Accidental release measures

· **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventillation.
Stop leak - ONLY if possible to do so without risk.
· **Measures for environmental protection:** Prevent seepage into sewage system, workpits and/or cellars.
· **Measures for cleaning/collecting:** Ensure adequate ventillation.

*

7 Handling and storage

· **Handling:**
To open valve sefely: Open fully and turn 1/4 back. Flow should not be obstructed, in an emergency the valve may be closed quickly.
· **Information for safe handling:**
Keep away from heat and direct sunlight.
Handle with care. Avoid jolting, friction, and impact.

(Contd. on page 3)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 2)

Use only in well ventilated areas.
Do not mix with air or oxygen above atmospheric pressure.
Store cylinders upright with valve protection cap in place and firmly secured to prevent falling or being knocked over.
If difficulty with operating cylinder valve is experienced discontinue use and contact supplier.

· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Prevent impact and friction.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Do not expose cylinder to temperatures higher than 50°C (122 °F)
· **Information about storage in one common storage facility:**
Store separately from cylinders containing oxygen or oxidants by a minimum distance of 20' or by a barrier of non-combustible material at least 5' high having a fire resistant rating of at least 30minutes.
Sources of ignition should be removed from storage area.
· **Further information about storage conditions:**
Keep cylinder valve tightly closed.
Store in cool, dry conditions in well sealed receptacles.
Store cylinder in a well ventilated area.
Store in accordance with local fire code and/or building code or any pertaining regulations.

*

8 Exposure controls and personal protection

· **Additional information about design of technical systems:**
Adequate local ventillation.
Safety showers and eyewash stations should be nearby.

· **Components with limit values that require monitoring at the workplace:**	
74-86-2 Acetylene (23-100%)	
EL	Simple asphyxiant

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**
· **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Protective clothing should be kept free of oil and grease.
PPE should be inspected and maintained regularly to retain it's effectiveness.
· **Breathing equipment:**
Use atmosphere-supplying respirators (e.g. supplied-air: demand, pressure-demand, or continuous-flow or self-contained breathing apparatus: demand or pressure-demand or combination supplied-air with auxiliary self-contained air supply atmosphere-supplying respirator) in case of insufficient ventilation.

(Contd. on page 4)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 3)

· **Protection of hands:**

Protective gloves.

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· **Eye protection:** Safety glasses

*

9 Physical and chemical properties

· **General Information**	
Form:	Gaseous.
Color:	Colorless
Odor:	Ether-like
· **Change in condition**	
Melting point/Melting range:	-80.8°C
Boiling point/Boiling range:	-83°C
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Highly flammable.
· **Ignition temperature:**	325°C
· **Danger of explosion:**	Heating may cause an explosion. In use, may form flammable/explosive vapour-air mixture.
· **Explosion limits:**	
Lower:	2.3 Vol %
Upper:	78> Vol %
· **Solubility in / Miscibility with**	
Water at 20°C:	1.185 g/l

*

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Dangerous reactions**
May form explosive gas mixture with air.
May react with oxidizing agents.
· **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**
· **LD/LC50 values that are relevant for classification:** LC50 - None available.

(Contd. on page 5)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 4)

· **Primary irritant effect:**
· **on the skin:** No irritating effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.

12 Ecological information

· **General notes:** Generally not hazardous for water

*

13 Disposal considerations

· **Product:**
· **Recommendation:**
Cylinder and unused product should be returned to vendor. Disposable cylinder must be disposed of in accordance with local regulations.

· **Uncleaned packagings:**
· **Recommendation:**
Cylinder and unused product should be returned to vendor. Disposable cylinder must be disposed of in accordance with local regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

*

14 Transport information

· **TDG and DOT regulations:**

· **Hazard class:**	2
· **Identification number:**	UN1001
· **Packing group:**	-
· **Proper shipping name (technical name):**	ACETYLENE, DISSOLVED
· **Label**	2.1
· **Packaging group:**	-

· **Maritime transport IMDG:**

· **IMDG Class:**	2.1
· **UN Number:**	1001
· **Label**	2.1
· **Packaging group:**	-
· **EMS Number:**	F-D,S-U
· **Marine pollutant:**	No

(Contd. on page 6)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 5)

· **Propper shipping name:** ACETYLENE, DISSOLVED

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:**	2
· **UN/ID Number:**	1001
· **Label**	2.1
· **Packaging group:**	-
· **Propper shipping name:**	ACETYLENE, DISSOLVED

*

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act):**

Substance is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

(Contd. on page 7)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 6)

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**
Substance is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**
Substance is not listed.

· **Canadian Ingredient Disclosure list (limit 1%)**
Substance is not listed.

· **Product related hazard informations:**
The product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations.

· **Hazard symbols:**
Highly flammable

· **Risk phrases:**
Heating may cause an explosion.
Highly flammable.

· **Safety phrases:**
Keep container in a well-ventilated place.
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.

*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Customer Service Centre: 1-866-385-5349
· **Contact:** Canada Technical Services: 1-866-385-5349

MATERIAL SAFETY DATA SHEET

MSDS 0165

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
Acid - Away

PRODUCT CODES
45004,45010

CHEMICAL FAMILY:
Organic

USE
Compressor Burnout Acid Neutralizer

HMIS CODES

Health	1
Flammability	2
Reactivity	0
PPI	B

MANUFACTURER'S NAME
The RectorSeal Corporation
2601 Spenwick Drive
Houston, Texas 77055 USA

EMERGENCY TELEPHONE NO.
Chemtrec 24 Hours
(800) 424-9300

VALIDATION DATE
June 14, 2006

TECHNICAL SERVICE TELEPHONE NO.
(800) 231-3345

REVISION DATE
June 14, 2006

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT		UNITS
--	64742-44-5	Petroleum Oil		
		ACGIH TLV	5	mg/m3
		OSHA PEL	5	mg/m3

Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS
Repeated inhalation may cause dizziness and nausea. Ingestion may cause cramps and diarrhea.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION
Upper respiratory tract irritation and dizziness.

EYE CONTACT
Irritation, watering may occur.

SKIN CONTACT
Frequent or prolonged contact may irritate and cause dermatitis.

INGESTION
May cause nausea, vomiting and gastro-intestinal irritation.

SUMMARY OF CHRONIC HAZARDS
Prolonged skin contact may result in irritation and dermatitis. Prolonged eye contact may result in irritation or chemical burns.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Individuals with pre-existing or chronic diseases of the eyes, skin or persons with chemical sensitivity may have increased susceptibility to excessive exposures.

Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

If on SKIN: Wash with soap and water. Remove contaminated clothing. If irritation occurs, seek medical attention.
If in EYES: Flush with large amounts of water for at least 15 minutes. Get medical attention if irritation persists.
If SWALLOWED: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
>148 F (64 C) SETA CC	N/D	N/D

EXTINGUSING MEDIA
Foam, dry chemical, carbon dioxide or water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10).
UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible - moderate flash point. Heat may build up pressure and rupture closed containers.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Use absorbent materials to prevent footing hazard and to contain. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames.
OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers. KEEP OUT OF REACH OF CHILDREN.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air purifying or supplied air respirators.
VENTILATION - LOCAL EXHAUST: Acceptable
SPECIAL: Explosion-proof equipment
MECHANICAL (GENERAL): Preferable
OTHER: N/A
PROTECTIVE GLOVES: Rubber or neoprene
EYE PROTECTION: Chemical splash goggles (ANSI Z-87.1 or equivalent)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls recommended.
WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	320 F (160 C) @ 760mm Hg
SPECIFIC GRAVITY (H20 = 1):	0.9
VAPOR PRESSURE (mm Hg):	<5 @ 68 F (20 C)
MELTING POINT:	N/A
VAPOR DENSITY (AIR = 1):	>5

EVAPORATION RATE (ETHYL ACETATE = 1): <1
APPEARANCE/ODOR: Pale Yellow Oil/Petroleum Odor
SOLUBILITY IN WATER: Insoluble
VOLATILE ORGANIC COMPOUNDS(VOC)Content
(Theoretical Percentage By Weight): 0% or (0 g/L)

Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: Heat, sparks, open flames, and strong oxidizing conditions.
INCOMPATIBILITY (MATERIALS TO AVOID): Gaseous oxygen and strong oxidizing materials.
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2 and fragmented hydrocarbons.
HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS
No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA
Ingredient Name

Petroleum Oil

Oral-Rat	LD50: N/D
Inhalation-Rat	LC50: N/D

Section 12 -- Ecological Information

ECOLOGICAL DATA
Ingredient Name

Petroleum Oil

Food Chain Concentration Potential	N/D
WATERFOWL TOXICITY	N/D
BOD	N/D
AQUATIC TOXICITY	N/D

Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated waste oil
Disposal Method: Used oil recycler
Waste from this product is not considered hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

Section 14 -- TRANSPORTATION INFORMATION

DOT:	Non-Regulated
OCEAN (IMDG):	Non-Regulated
AIR (IATA):	Non-Regulated
WHMIS (CANADA):	Non-Regulated

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
Ingredient Name

Petroleum Oil

SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Section 16 -- OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

1 Identification of substance

· **Product details**

· **Trade name: Acetylene**

· **Article number:** 030-01-0003BOC

· **Creation date:** 08/09/2006

· **Manufacturer/Supplier:**
BOC Canada Limited
5860 Chedworth Way
Mississauga, Ontario L5R 0A2
www.bocgases.ca

TELEPHONE NUMBER: (905) 501-1700
24-HOUR EMERGENCY TELEPHONE NUMBER: (905) 501-0802
EMERGENCY RESPONSE PLAN NO: 2-0101

Please ensure that this MSDS is received by the appropriate person

· **Information department:** Customer Service Centre: 1-866-385-5349

2 Composition/Data on components

· **Chemical characterization:**
· **CAS No. Description**
74-86-2 Acetylene
· **Identification number(s)**
· **EINECS Number:** 200-816-9
· **EU Number:** 601-015-00-0

*

3 Hazards identification

· **Hazard description:**

Highly flammable

· **WHMIS-symbols:**
A - Compressed gas
B1 - Flammable gas

· **HMIS-ratings (scale 0 - 4)**

HEALTH 1	Health = 1
FIRE 4	Fire = 4
REACTIVITY 3	Reactivity = 3

(Contd. on page 2)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 1)

· **NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 4
Reactivity = 3

· **Information pertaining to particular dangers for man and environment:**
Heating may cause an explosion.
Highly flammable.
· **Classification system:**
The classification is in line with internationally approved calculation standards. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

*

4 First aid measures

· **After inhalation:**
Supply fresh air. If required, provide artificial respiration and consult doctor. Keep patient warm.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Not applicable

*

5 Fire fighting measures

· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
In the case of fires caused by ignited acetylene leaks:
- DO NOT extinguish unless it is possible (without risk) to shut-off gas flow; explosive vapours could form and re-ignition may occur.
Evacuate area as soon as possible.
· **Protective equipment:** Wear self-contained respiratory protective device.

*

6 Accidental release measures

· **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventillation.
Stop leak - ONLY if possible to do so without risk.
· **Measures for environmental protection:** Prevent seepage into sewage system, workpits and/or cellars.
· **Measures for cleaning/collecting:** Ensure adequate ventillation.

*

7 Handling and storage

· **Handling:**
To open valve sefely: Open fully and turn 1/4 back. Flow should not be obstructed, in an emergency the valve may be closed quickly.
· **Information for safe handling:**
Keep away from heat and direct sunlight.
Handle with care. Avoid jolting, friction, and impact.

(Contd. on page 3)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 2)

Use only in well ventilated areas.
Do not mix with air or oxygen above atmospheric pressure.
Store cylinders upright with valve protection cap in place and firmly secured to prevent falling or being knocked over.
If difficulty with operating cylinder valve is experienced discontinue use and contact supplier.

· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Prevent impact and friction.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Do not expose cylinder to temperatures higher than 50°C (122 °F)
· **Information about storage in one common storage facility:**
Store separately from cylinders containing oxygen or oxidants by a minimum distance of 20' or by a barrier of non-combustible material at least 5' high having a fire resistant rating of at least 30minutes.
Sources of ignition should be removed from storage area.
· **Further information about storage conditions:**
Keep cylinder valve tightly closed.
Store in cool, dry conditions in well sealed receptacles.
Store cylinder in a well ventilated area.
Store in accordance with local fire code and/or building code or any pertaining regulations.

*

8 Exposure controls and personal protection

· **Additional information about design of technical systems:**
Adequate local ventillation.
Safety showers and eyewash stations should be nearby.

· **Components with limit values that require monitoring at the workplace:**	
74-86-2 Acetylene (23-100%)	
EL	Simple asphyxiant

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**
· **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Protective clothing should be kept free of oil and grease.
PPE should be inspected and maintained regularly to retain it's effectiveness.
· **Breathing equipment:**
Use atmosphere-supplying respirators (e.g. supplied-air: demand, pressure-demand, or continuous-flow or self-contained breathing apparatus: demand or pressure-demand or combination supplied-air with auxiliary self-contained air supply atmosphere-supplying respirator) in case of insufficient ventilation.

(Contd. on page 4)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 3)

· **Protection of hands:**

Protective gloves.

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· **Eye protection:** Safety glasses

*

9 Physical and chemical properties

· **General Information**	
Form:	Gaseous.
Color:	Colorless
Odor:	Ether-like
· **Change in condition**	
Melting point/Melting range:	-80.8°C
Boiling point/Boiling range:	-83°C
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Highly flammable.
· **Ignition temperature:**	325°C
· **Danger of explosion:**	Heating may cause an explosion. In use, may form flammable/explosive vapour-air mixture.
· **Explosion limits:**	
Lower:	2.3 Vol %
Upper:	78> Vol %
· **Solubility in / Miscibility with**	
Water at 20°C:	1.185 g/l

*

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Dangerous reactions**
May form explosive gas mixture with air.
May react with oxidizing agents.
· **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**
· **LD/LC50 values that are relevant for classification:** LC50 - None available.

(Contd. on page 5)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 4)

· **Primary irritant effect:**
· **on the skin:** No irritating effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.

12 Ecological information

· **General notes:** Generally not hazardous for water

*

13 Disposal considerations

· **Product:**
· **Recommendation:**
Cylinder and unused product should be returned to vendor. Disposable cylinder must be disposed of in accordance with local regulations.

· **Uncleaned packagings:**
· **Recommendation:**
Cylinder and unused product should be returned to vendor. Disposable cylinder must be disposed of in accordance with local regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

*

14 Transport information

· **TDG and DOT regulations:**

· **Hazard class:**	2
· **Identification number:**	UN1001
· **Packing group:**	-
· **Proper shipping name (technical name):**	ACETYLENE, DISSOLVED
· **Label**	2.1
· **Packaging group:**	-

· **Maritime transport IMDG:**

· **IMDG Class:**	2.1
· **UN Number:**	1001
· **Label**	2.1
· **Packaging group:**	-
· **EMS Number:**	F-D,S-U
· **Marine pollutant:**	No

(Contd. on page 6)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 5)

· **Propper shipping name:** ACETYLENE, DISSOLVED

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:**	2
· **UN/ID Number:**	1001
· **Label**	2.1
· **Packaging group:**	-
· **Propper shipping name:**	ACETYLENE, DISSOLVED

*

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act):**

Substance is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

(Contd. on page 7)

Material Safety Data Sheet

Printing date 04/17/2007 Version 1 Reviewed on 04/17/2007

Trade name: Acetylene

(Contd. of page 6)

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**
Substance is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**
Substance is not listed.

· **Canadian Ingredient Disclosure list (limit 1%)**
Substance is not listed.

· **Product related hazard informations:**
The product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations.

· **Hazard symbols:**
Highly flammable

· **Risk phrases:**
Heating may cause an explosion.
Highly flammable.

· **Safety phrases:**
Keep container in a well-ventilated place.
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.

*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Customer Service Centre: 1-866-385-5349
· **Contact:** Canada Technical Services: 1-866-385-5349

CHEMetrics, Inc.
4295 Catlett Rd., Calverton, VA 20138
(800) 356-3072 (540) 788-9026
Fax (540) 788-4856 E-mail technical@chemetrics.com

24 Hour Emergency Numbers: **(703) 590-9204**
(540) 439-3860
Creation Date: **04/22/86 (1072-17)**
Revision Date: **12/22/06**

MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAMES: DISSOLVED OXYGEN CHEMets® and ULR CHEMets®
CATALOG NOS.: R-7501, R-7501V, R-7511, R-7518, R-7540, R-7540G and R-7540V

DESCRIPTION: Reagent ampoules for the determination of dissolved oxygen in water. Each CHEMet™ contains approximately 0.50 mL of liquid reagent sealed under vacuum. Each ULR CHEMet™ contains approximately 1 mL of liquid reagent sealed under vacuum.

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Diethylene Glycol
CAS NO.: 111-46-6 PERCENT: < 28.5

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: > 70

COMPONENT: Other components
CAS NO.: N/A PERCENT: < 1.0

Any component of this mixture not specifically listed (e.g. "other components") is not considered to present a carcinogen hazard.

III. HAZARDS IDENTIFICATION

Harmful if swallowed.
ACUTE TOXICITY: Irritation, nausea, diarrhea, nerve depression
CHRONIC TOXICITY: Irritation, liver or kidney lesions
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, liver or kidney disorders

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes.
INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.
INHALATION: Remove individual to fresh air.

V. FIRE FIGHTING MEASURES

FLASH POINT: N/A AUTOIGNITION POINT: N/A
FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam

VI. ACCIDENTAL RELEASE MEASURES

Take up with absorbent material. Place in small containers for disposal.

VII. HANDLING AND STORAGE

Always wear eye protection when working with these ampoules.
WARNING: Do not break the tip of the ampoule unless it is completely immersed in your sample. Breaking the tip in the air may cause the glass ampoule to shatter.
If this product is used as directed, the user will not come in contact with or be exposed to any of its chemical components.
Wash thoroughly after handling. Avoid contact with eyes.
Fragile. Liquid in glass. Handle with care.
Exposure of this product to temperatures up to 120°F (49°C) or even below 32°F (0°C) will not create a safety hazard. For optimum analytical accuracy, the product should be stored in the dark and at room temperature.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL & ACGIH TLV: N/A
PROTECTIVE EQUIPMENT: Safety glasses

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless to pale yellow ODOR: None
SOLUBILITY IN WATER: Miscible pH: 11.5
BOILING POINT: 150°C MELTING POINT: -5.0°C
VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.03
VAPOR DENSITY: N/A

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: Acids
HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, oxides of carbon may be emitted.
Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGEN STATUS: None
No other data available at this time.

XII. ECOLOGICAL INFORMATION

Diethylene glycol has a low bioconcentration potential and is practically non-toxic to aquatic organisms.
No other data available at this time.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

XIV. TRANSPORT INFORMATION

Not regulated.

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:
EU Symbols: Xn - HARMFUL
Risk Phrases: Harmful if swallowed.
Safety Phrases: If swallowed, seek medical advice immediately (show the label where possible).

CANADIAN INFORMATION:
WHMIS Classification: D2A
All chemical components of this product are listed on Canada's DSL.

U.S. INFORMATION:
All chemical components of this product are listed on the TSCA Inventory.

XVI. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

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Praxair Material Safety Data Sheet

1. Chemical Product and Company Identification

Product Name: Nitrogen, compressed (MSDS No. P-4631-H)	**Trade Names:** Nitrogen, Medipure® Nitrogen, Extendapak® Nitrogen,
Chemical Name: Nitrogen	**Synonyms:** Dinitrogen, Refrigerant R728
Chemical Family: Permanent gas	**Product Grades:** 5.0, 5.5, 6.0 SPG; 4.8 VEZ; 5.0 UHP; Bev; Extendapak®; NF 4.8, 5.0 MD; 4.8 OF; 4.8 Z;5.0 VOCF; 5.0 UZAM; 5.5 ECD; 6.0 Research; Industrial, 5.0, 5.5 LaserStar; 5.5 TA

Telephone: **Emergencies:** 1-800-645-4633* **Company Name:** Praxair, Inc.
CHEMTREC: 1-800-424-9300* 39 Old Ridgebury Road
Routine: 1-800-PRAXAIR Danbury, CT 06810-5113

**Call emergency numbers 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product. For routine information, contact your supplier, Praxair sales representative, or call 1-800-PRAXAIR (1-800-772-9247).*

2. Hazards Identification

EMERGENCY OVERVIEW

CAUTION! High-pressure gas.
Can cause rapid suffocation.
May cause dizziness and drowsiness.
Self-contained breathing apparatus may be required by rescue workers.
Under ambient conditions, this a colorless, odorless, inert gas.

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communications Standard (29 CFR 1910.1200).

POTENTIAL HEALTH EFFECTS:

Effects of a Single (Acute) Overexposure

Inhalation. Asphyxiant. Effects are due to lack of oxygen. Moderate concentrations may cause headache, drowsiness, dizziness, excitation, excess salivation, vomiting, and unconsciousness. Lack of oxygen can kill.

Skin Contact. No harm expected.

Swallowing. An unlikely route of exposure. This product is a gas at normal temperature and pressure.

Eye Contact. No harm expected.

Effects of Repeated (Chronic) Overexposure. No harm expected.

Other Effects of Overexposure. Asphyxiant. Lack of oxygen can kill.

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A vertical line in the left margin indicates revised or new material.

Medical Conditions Aggravated by Overexposure. The toxicology and the physical and chemical properties of nitrogen suggest that overexposure is unlikely to aggravate existing medical conditions.

CARCINOGENICITY: Nitrogen is not listed by NTP, OSHA, or IARC.

POTENTIAL ENVIRONMENTAL EFFECTS: None known. For further information, see section 12, Ecological Information.

3. Composition/Information on Ingredients

See section 16 for important information about mixtures.

COMPONENT	CAS NUMBER	CONCENTRATION
Nitrogen	7727-37-9	>99%*

**The symbol > means "greater than."*

4. First Aid Measures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may give oxygen. Call a physician.

SKIN CONTACT: An unlikely route of exposure. This product is a gas at normal temperature and pressure.

SWALLOWING: An unlikely route of exposure. This product is a gas at normal temperature and pressure.

EYE CONTACT: An unlikely route of exposure. This product is a gas at normal temperature and pressure.

NOTES TO PHYSICIAN: *There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.*

5. Fire Fighting Measures

FLAMMABLE PROPERTIES: Nitrogen cannot catch fire.

SUITABLE EXTINGUISHING MEDIA: Nitrogen cannot catch fire. Use media appropriate for surrounding fire.

PRODUCTS OF COMBUSTION: Not applicable.

PROTECTION OF FIREFIGHTERS: CAUTION! High-pressure gas. Asphyxiant. Lack of oxygen can kill. Evacuate all personnel from danger area. Immediately deluge cylinders with water from maximum distance until cool; then move them away from fire area if without risk. Shut off flow if you can do so without risk. Self-contained breathing apparatus may be required by rescue workers. On-site fire brigades must comply with OSHA 29 CFR 1910.156.

Specific Physical and Chemical Hazards. Heat of fire can build pressure in cylinder and cause it to rupture. No part of cylinder should be subjected to a temperature higher than 125°F (52°C). Nitrogen cylinders are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.)

Protective Equipment and Precautions for Firefighters. Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

CAUTION! High-pressure gas.

Personal Precautions. Asphyxiant. Lack of oxygen can kill. Evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Shut off flow if you can do so without risk. Ventilate area or move cylinder to a well-ventilated area. Test for sufficient oxygen, especially in confined spaces, before allowing reentry.

Environmental Precautions. Prevent waste from contaminating the surrounding environment. Keep personnel away. Discard any product, residue, disposable container, or liner in an environmentally acceptable manner, in full compliance with federal, state, and local regulations. If necessary, call your local supplier for assistance.

7. Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING: ***Protect cylinders from damage.*** Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Open valve slowly. Close valve after each use; keep closed even when empty. If valve is hard to open, discontinue use and contact your supplier. For other precautions in using nitrogen, see section 16.

PRECAUTIONS TO BE TAKEN IN STORAGE: ***Store and use with adequate ventilation. Always secure cylinders upright to keep them from falling or being knocked over.*** Install valve protection cap, if provided, firmly in place by hand. Store only where temperature will not exceed 125°F (52°C). Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.

RECOMMENDED PUBLICATIONS: For further information on storage, handling, and use, see Praxair publication P-14-153, *Guidelines for Handling Gas Cylinders and Containers*. Obtain from your local supplier.

8. Exposure Controls/Personal Protection

COMPONENT	OSHA PEL	ACGIH TLV-TWA (2007)
Nitrogen	N.E.*	Simple asphyxiant

*N.E.–Not Established.

IDLH = Not available.

ENGINEERING CONTROLS:

Local Exhaust. Use a local exhaust system, if necessary, to prevent oxygen deficiency.

Mechanical (General). General exhaust ventilation may be acceptable if it can maintain an adequate supply of air.

Special. None

Other. None

PERSONAL PROTECTIVE EQUIPMENT:

Skin Protection. Wear work gloves when handling cylinders and metatarsal shoes for cylinder handling. Select in accordance with OSHA 29 CFR 1910.132 and 1910.133. Regardless of protective equipment, never touch live electrical parts.

Eye/Face Protection. Wear safety glasses when handling cylinders. Select in accordance with OSHA 29 CFR 1910.133.

Respiratory Protection. None required under normal use. Air-supplied respirators must be used in confined spaces or in an oxygen-deficient atmosphere. Respiratory protection must conform to OSHA rules as specified in 29 CFR 1910.134. Select in accordance with 29 CFR 1910.134 and ANSI Z88.2.

9. Physical and Chemical Properties

APPEARANCE:	Colorless gas
ODOR:	Odorless
ODOR THRESHOLD:	Not available.
PHYSICAL STATE:	Gas at normal temperature and pressure
pH:	Not applicable.
MELTING POINT at 1 atm:	-346°F (-210°C)
BOILING POINT at 1 atm:	-320.44°F (-195.80°C)
FLASH POINT (test method):	Not applicable.
EVAPORATION RATE (Butyl Acetate = 1):	Not applicable.
FLAMMABILITY:	Nonflammable
FLAMMABLE LIMITS IN AIR, % by volume:	**LOWER:** Not applicable. **UPPER:** Not applicable.
LIQUID DENSITY at boiling point and 1 atm:	50.7 lb/ft^3 (808.5 kg/m^3)
VAPOR PRESSURE at 68°F (20°C):	Not applicable.
VAPOR DENSITY at 70°F (21.1°C) and 1 atm:	0.0724 lb/ft^3 (1.160 kg/m^3)
SPECIFIC GRAVITY (H_2O = 1) at 19.4°F (-7°C):	Not available.
SPECIFIC GRAVITY (Air = 1) at 70°F (21.1°C) and 1 atm:	0.967
SOLUBILITY IN WATER, vol/vol at 32°F (0°C)	0.023
PARTITION COEFFICIENT: n-octanol/water:	Not available.
AUTOIGNITION TEMPERATURE:	Not applicable.
DECOMPOSITION TEMPERATURE:	Not available.
PERCENT VOLATILES BY VOLUME:	100
MOLECULAR WEIGHT:	28.01
MOLECULAR FORMULA:	N_2

10. Stability and Reactivity

CHEMICAL STABILITY: ☐ Unstable ☒ Stable

CONDITIONS TO AVOID: High temperatures, exposure to lithium, neodymium, titanium and magnesium

INCOMPATIBLE MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

POSSIBILITY OF HAZARDOUS REACTIONS: ☒ May Occur ☐ Will Not Occur

Under certain conditions, nitrogen can react violently with lithium, neodymium, titanium [above 1472°F (800°C)], and magnesium to form nitrides. At high temperature it can also combine with oxygen and hydrogen.

11. Toxicological Information

ACUTE DOSE EFFECTS: Nitrogen is a simple asphyxiant.

STUDY RESULTS: None known.

12. Ecological Information

ECOTOXICITY: No adverse ecological effects expected.

OTHER ADVERSE EFFECTS: Nitrogen does not contain any Class I or Class II ozone-depleting chemicals.

13. Disposal Considerations

WASTE DISPOSAL METHOD: Do not attempt to dispose of residual or unused quantities. Return cylinder to supplier.

14. Transport Information

DOT/IMO SHIPPING NAME: Nitrogen, compressed

HAZARD CLASS:	2.2	**PACKING GROUP/Zone:**	NA*	**IDENTIFICATION NUMBER:**	UN1066	**PRODUCT RQ:**	None

SHIPPING LABEL(s): NONFLAMMABLE GAS

PLACARD (when required): NONFLAMMABLE GAS

* Not applicable.

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. Cylinders transported in an enclosed, nonventilated compartment of a vehicle can present serious safety hazards.

Shipment of compressed gas cylinders that have been filled without the owner's consent is a violation of federal law [49 CFR 173.301(b)].

MARINE POLLUTANTS: Nitrogen is not listed as a marine pollutant by DOT.

15. Regulatory Information

The following selected regulatory requirements may apply to this product. Not all such requirements are identified. Users of this product are solely responsible for compliance with all applicable federal, state, and local regulations.

U.S. FEDERAL REGULATIONS:

EPA (ENVIRONMENTAL PROTECTION AGENCY)

CERCLA: COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT OF 1980 (40 CFR Parts 117 and 302):

Reportable Quantity (RQ): None

SARA: SUPERFUND AMENDMENT AND REAUTHORIZATION ACT:

SECTIONS 302/304: Require emergency planning based on Threshold Planning Quantity (TPQ) and release reporting based on Reportable Quantities (RQ) of Extremely Hazardous Substances (EHS) (40 CFR Part 355):

TPQ: None
EHS RQ (40 CFR 355): None

SECTIONS 311/312: Require submission of MSDSs and reporting of chemical inventories with identification of EPA hazard categories. The hazard categories for this product are as follows:

IMMEDIATE: No
DELAYED: No
PRESSURE: Yes
REACTIVITY: No
FIRE: No

SECTION 313: Requires submission of annual reports of release of toxic chemicals that appear in 40 CFR Part 372.

Nitrogen is not subject to reporting under Section 313.

40 CFR 68: RISK MANAGEMENT PROGRAM FOR CHEMICAL ACCIDENTAL RELEASE PREVENTION: Requires development and implementation of risk management programs at facilities that manufacture, use, store, or otherwise handle regulated substances in quantities that exceed specified thresholds.

Nitrogen is not listed as a regulated substance.

TSCA: TOXIC SUBSTANCES CONTROL ACT: Nitrogen is listed on the TSCA inventory.

OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:

29 CFR 1910.119: PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: Requires facilities to develop a process safety management program based on Threshold Quantities (TQ) of highly hazardous chemicals.

Nitrogen is not listed in Appendix A as a highly hazardous chemical.

STATE REGULATIONS:

CALIFORNIA: Nitrogen is not listed by California under the SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (Proposition 65).

PENNSYLVANIA: Nitrogen is subject to the PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW ACT (35 P.S. Sections 7301-7320).

16. Other Information

Be sure to read and understand all labels and instructions supplied with all containers of this product.

NOTE: *The suitability of nitrogen as a component in underwater breathing gas mixtures is to be determined by or under the supervision of personnel experienced in the use of underwater breathing gas mixtures and familiar with the physiological effects, methods employed, frequency and duration of use, hazards, side effects, and precautions to be taken.*

OTHER HAZARDOUS CONDITIONS OF HANDLING, STORAGE, AND USE: ***High-pressure gas. Use piping and equipment adequately designed to withstand pressures to be encountered.*** Use a blackflow prevention device in any piping. ***Gas can cause rapid suffocation because of oxygen deficiency.*** Store and use with adequate ventilation. ***Never work on a pressurized system.*** If there is a leak, close the cylinder valve. Blow the system down in a safe and environmentally sound manner in compliance with all federal, state, and local laws; then repair the leak. ***Never place a compressed gas cylinder where it may become part of an electrical circuit.***

Mixtures. When you mix two or more gases or liquefied gases, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Remember, gases and liquids have properties that can cause serious injury or death.

HAZARD RATING SYSTEMS:

NFPA RATINGS:		**HMIS RATINGS:**	
HEALTH	= 0	HEALTH	= 0
FLAMMABILITY	= 0	FLAMMABILITY	= 0
INSTABILITY	= 0	PHYSICAL HAZARD	= 3
SPECIAL	= SA (CGA recommends this to designate Simple Asphyxiant.)		

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA:

THREADED:	0-3000 psig	CGA-580
	3001-5500 psig	CGA-680
	5001-7500 psig.	CGA-677
PIN-INDEXED YOKE:	0-3000 psig	CGA-960 (medical use)
ULTRA-HIGH-INTEGRITY CONNECTION:	0-3000 psig	CGA-718

Use the proper CGA connections. **DO NOT USE ADAPTERS.** Additional limited-standard connections may apply. See CGA pamphlet V-1 listed below.

Ask your supplier about free Praxair safety literature as referred to in this MSDS and on the label for this product. Further information can be found in the following materials published by the Compressed Gas Association, Inc. (CGA), 4221 Walney Road, 5th Floor, Chantilly, VA 20151-2923, Telephone (703) 788-2700, http://www.cganet.com/Publication.asp.

AV-1	*Safe Handling and Storage of Compressed Gases*
G-10.1	*Commodity Specification for Nitrogen*
P-1	*Safe Handling of Compressed Gases in Containers*
P-9	*Inert Gases – Argon, Nitrogen, and Helium*
SB-2	*Oxygen-Deficient Atmospheres*
V-1	*Compressed Gas Cylinder Valve Inlet and Outlet Connections*
—	*Handbook of Compressed Gases, Fourth Edition*

Praxair asks users of this product to study this MSDS and become aware of product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this MSDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Praxair, Inc., it is the user's obligation to determine the conditions of safe use of the product.

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PRAXAIR®

Praxair, Inc.
39 Old Ridgebury Road
Danbury, CT 06810-5113

Printed in USA

MSDS #GGC-12, #GGC-6 SWOOSH CO2 Cartridge

SECTION 1: IDENTIFICATION

Product Name: Swoosh CO_2 Cartridges
MANUFACTURED FOR: Diversitech, Inc
ADDRESS: 2530 Lantrac Court, Decatur, GA 30035
PHONE NUMBER: 800-255-3924 Chem-Tel (Chemical Emergencies Only)
PHONE NUMBER (For Information): **800-995-2222**
DATE REVISED: 5/5/2004
PREPARED BY: Anthony Jernigan

SECTION 2: HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO	OSHA PEL	ACIGH TLV	OTHER STEL	%
Carbon dioxide	124-38-9	5000 ppm	3000 ppm		~100

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Colorless odorless gas. Contact with desublimed solid may cause frostbite. This product is nonflammable. Breathing high concentrations of vapors may produce drowsiness and a headache.
Potential Health Effects:
Eyes: Contact with desublimed solid may cause frostbite.
Skin: Contact with desublimed solid may cause frostbite
I**ngestion:** Unlikely. Contact with desublimed solid may cause frostbite.
Inhalation: High concentrations of vapors in immediate area can displace oxygen and can cause dizziness and unconsciousness. Use with adequate ventilation.
Pre-Existing Medical Conditions Aggravated by Exposure: Heart, lung, skin, eye.

SECTION 4: FIRST AID MEASURES

Eyes: Treat for frostbite immediately. Have eyes examined and tested by medical personnel if irritation develops or persists.
Skin: Treat for frostbite immediately. Get medical attention if irritation develops or persist.
Ingestion: Not a possible route of entry.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: None to boiling (TCC) **LEL/UEL:** Nonflammable
Extinguishing Media: Use extinguishing media as suitable for the combustible materials involved in the fire.
Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.
Unusual Fire and Explosion Hazards: Contents under pressure. Do not store near heat sources.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Large Spills: Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Allow condensed solid to sublime.
Small Spills: Allow condensed solid to sublime.

SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands before eating. Protect cartridges from abuse, and extreme temperatures. Keep this product out of the reach of children. Do not puncture cartridge unless it is contained in an approved appliance. Do not attempt to refill spent cartridges. Maintain a well-ventilated work area; use with adequate ventilation. Avoid breathing product vapor or mist. Store in a cool dry place, away from heat, sparks, flame and direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

CHEMICAL NAME	ACGIH TWA	OSHA PEL	ACGIH STEL
Carbon Dioxide	5,000 ppm	5,000 ppm	30,000 ppm

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields (or goggles) and rubber, neoprene or other chemically resistant gloves if there is documented evidence of compatibility when handling this material.

NFPA and HMIS Codes:

	NFPA	HMIS
Health	1	1
Flammability	0	0
Reactivity	0	0

Personal Protection - B

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colorless gas
Odor: Slight ethereal
pH: NA
Vapor Pressure: 856 psia @ 70 F
Viscosity: NA
Solubility in Water: Very Soluble
Specific Gravity: (Water =1) 1.53
Evaporation Rate: >1 (Butyl acetate=1)
Vapor Density: 1.65 @ 70°F (Air = 1)
Percent Volatile: 100%

SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable. Conditions to Avoid: None known
Incompatibility: None known **Products of Decomposition:** None known
Hazardous Polymerization: Will not occur **Conditions to Avoid:** NA

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation:
Carbon Dioxide: LCLo/human 9ppm/5 min
Cancer Information: No ingredients listed as human carcinogens by NTP or IARC
Reproductive effects: none
Teratogenic effects: none
Mutagenic effects: none

SECTION 12: ECOLOGICAL INFORMATION

Environmental Impact Information: No sufficient effect known from discharge of gas or desublimed solid.

Environmental Impact Data

REPORTING (percent by weight):

CFC 0.0% VOC 0.0%; HFC 0.0% HFC 0.0%; Cl. Solv. 0.0% ODP 0.00

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is: **800-424-8802.**

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

SECTION 14: TRANSPORTATION INFORMATION

Proper Shipping Name	UN Number	Class	Sub. Risk	Pkg. Group	Hazard Label	Pkg. Instr.	Max. Quantity
Air: Carbon Dioxide	UN 1013	2.2	NA	NA	Non-flammable Gas	200	75kg;150kg.
Ground: Consumer Commodity, ORM-D	NA	ORM-D	NA	NA	ORM-D	Pkg. Auth. 173.306	

SECTION 15: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): None

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients of this product are listed on the TSCA Inventory.

WHMIS: Class A

This product is classified according to the hazard criteria of the CPR, and the MSDS contains all of the information required by the CPR.

EEC:

Supply Classification: Not Listed

Hazard Pictogram: None

Risk Phrases: R-20 Harmful by Inhalation

Safety Phrases: S-2 Keep out of reach of children

S-47 Keep at temperatures not exceeding 49 degrees C

S-57 Refer to supplier for information on recycling

SECTION 16: OTHER INFORMATION

Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

REFERENCES: 29 CFR 1910.1200 40 CFR 300-700 ANSI Z400.1-1998; EEC Dangerous Substances Classification, Packaging and Labeling List (Annexes 1, 2, 3 & 4)

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement.

Section 1: Product And Company Identification

COMPANY: J/B INDUSTRIES INC.
LOCATION: 601 N. Farnsworth Ave.
Aurora, IL 60507

Emergency Telephone Number:
630/851-9444

PRODUCT NAME:
Vacuum Pump Oil

PRODUCT GRADES:

PRODUCT CODE:

DATE ISSUED:
December 28, 1992

DATE REVISED:
September 18, 2006

Section 2: Composition/ Information On Ingredients

CAS NAME:
Distillates, hydrotreated heavy paraffinic

CAS NUMBER:
64742-54-7

AMOUNT:
100% weight

This product is not approved for direct food use [CFR 178.3620 (a) & (b)]

Section 3: Hazards Identification

EMERGENCY OVERVIEW
Clear colorless to pale yellow liquid.

IMMEDIATE HEALTH EFFECTS
EYE:
Not expected to cause prolonged or significant eye irritation.

SKIN:
Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. Contact with the skin is not expected to cause an allergic skin response.

INGESTION:
Not expected to be harmful if swallowed.

INHALATION:
Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recomm ended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

Section 4: First Aid Measures

EYE:
No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution, remove contact lenses, if worn, and flush eyes with water.

SKIN:
No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

INGESTION:
No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

INHALATION:
No specific first aid measures are required because this material is not expected to be harmful if inhaled. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Section 5: Fire Fighting Measures

FIRE CLASSIFICATION;
OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS:

HEALTH	FLAMMABILITY	REACTIVITY
0	1	0

FLAMMABLE PROPERTIES:
FLASH POINT:
Cleveland Open Cup 378°F (190°C) (Min)

AUTOIGNITION:
No data available

FLAMMABLE (EXPLOSIVE) LIMITS (% by volume in air):
Lower N/A Upper N/A

EXTINGUISHING MEDIA:
Use water fog, foam, dry chemical or carbon dioxide (CO_2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions:
This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products:
Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

Section 6. Accidental Release Measures

PROTECTIVE MEASURES:
Eliminate all sources of ignition in vicinity of spilled material.

SPILL MANAGEMENT:
Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/ Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

REPORTING:
Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

Section 7. Handling and Storage

GENERAL HANDLING INFORMATION:
Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

STATIC HAZARD:
Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/ or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA

Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity; and /or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning and Stray Currents'.

CONTAINER WARNING:

Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

Section 8. Exposure Controls/ Personal Protection

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION:

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: Nitrile Rubber, Silver Shield, Viton.

RESPIRATORY PROTECTION:

No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Exposure Limit (PEL) of 5 mg/m^3 for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Section 9: Physical And Chemical Properties

APPEARANCE AND ODOR:

Clear colorless to pale yellow liquid.

PH:

Not Available

VAPOR PRESSURE:

<0.01 mmHg @ 100°F

VAPOR DENSITY (Air =1):

>1

BOILING POINT:

>600°F (>315° C)

SOLUBILITY:

Soluble in hydrocarbons, insoluble in water

FREEZING POINT

NA

MELTING POINT

NA

SPECIFIC GRAVITY:

0.85-0.87 @ 15.6 °C/15.6°C

VOLATILE ORGANIC COMPOUNDS (VOC):

2.9% weight (Approximate)

VISCOSITY:

18.7 cST - 105 cST @40°C

Section 10. Stability And Reactivity

CHEMICAL STABILITY:

This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS DECOMPOSITION PRODUCTS:

None known (None expected)

HAZARDOUS POLYMERIZATION:

Hazardous polymerization will not occur.

Section 11. Toxicological Information

IMMEDIATE HEALTH EFFECTS

EYE IRRITATION:

The mean 24-hour Draize eye irritation score in rabbits is 4.0/110.

SKIN IRRITATION:

For a 24-hour exposure, the Primary Irritation Score (PIS) in rabbits is: 0.2/8.0.

SKIN SENSITIZATION:

This material did not cause skin sensitization reactions in a Buehler guinea pig test.

ACUTE DERMAL TOXICITY:

The 24 hour(s) LD50 in the rabbit is >5g/kg.

ACUTE ORAL TOXICITY:

The LD50 in the rat is >5 g/kg.

ACUTE INHALATION TOXICITY:

The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

GENETIC TOXICITY:

This product gave negative results in the following mutagenicity assays: Microbial/Microsome Reverse Mutation Assay.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

Section 12. Ecological Information:

EXOTOXICITY

Ten 96 hour(s) LC50 for rainbow trout (Oncorhynchus mykiss) is >1000 mg/l.

ENVIRONMENTAL FATE

READY BIODEGRADABILITY:

This material is not expected to be readily biodegradable.

Section 13. Disposal Considerations

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent

with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recyling methods.

Section 14. Transportation Information

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME:

Not regulated as a hazardous material for transportation under 49 CFR

DOT HAZARD CLASS:

Not Applicable

DOT IDENTIFICATION NUMBER:

Not Applicable

DOT PACKING GROUP:

Not Applicable

Section 15. Regulatory Information

SARA 311/312 CATEGORIES:

1. Immediate (Acute) Health Effects: No
2. Delayed (Chronic) Health Effects: No
3. Fire Hazard: No
4. Sudden Release of Pressure Hazard: No
5. Reactivity Hazard: No

REGULATORY LISTS SEARCHED:

4_I1=IARC Group 1
4_I2A=IARC Group 2A
4_I28B=IARC Group 2B
05=NTP Carcinogen
06-OSHA Carcinogen
09-TSCA 12(b)
10=TSCA Section 4
11=TSCA Section 8(a) CAIR
12=TSCA Section 8(a) PAIR
13=TSCA Section 8(d)
15=SARA Section 313
16=CA Proposition 65
17=MA RTK
18=NJ RTK
19=DOT Marine Pollutant
20=PA RTK
21=TSCA Section 5(a)
25=CAA Section 112 HAPs
26=CWA Section 311
28=CWA Section 307
30=RCRA Waste P-List
31-RCRA Waste U-List
32=RCRA Appendix VIII

No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES:

AUSTRALIA: All the components of this material are listed on the Australian Inventory of Chemical Substances (AICS).

KOREA: All the components of this product are on the Existing Chemicals List (ECL) in Korea.

PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

CANADA: All the components of this material are on the Canadian Domestic Substances List (DSL).

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A.34:5A-1 et. seq., the product is to be indentified as follows: PETROLEUM OIL

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

Section 16. Other Information

NFPA RATINGS:

Health:	Flammability:	Reactivity:
0	1	0

HMIS RATINGS:

Health:	Flammability:	Reactivity
1	1	0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:-Personal Protection Equipment Index recommendation, *-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of it use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Date Prepared: July 1, 1992

Date Reviewed: January 8, 2001

MATERIAL SAFETY DATA SHEET

Product Name: Acetylene — January 8, 2001

1. Chemical, Product and Company Identification

Linweld, Inc
9911 Deer Park Road
Waverly, NE 68462

Telephone Number
Information: (402) 786-3330
Emergency: (402) 786-5277

Product Name: Acetylene
Chemical Name: Acetylene
Common Names: Acetylene; Ethyne

2. Hazard Ingredients and Identity Information

COMPONENT	% VOLUME	OSHA-PEL	ACGIH-TLV	CAS NUMBER
Acetylene	95.0 to 99.6	Not Available	Simple Asphyxiant	000074-86-2
Acetone	Unavailable	1000 ppm TWA	750 ppm TWA 1000 ppm STEL	000067-64-1

3. Physical and Chemical Characteristics

Boiling Point:	-118.8° F	**Specific Gravity:**	0.906	**pH:**	N/A
Melting Point:	-116° F	**Evaporation Rate:**	N/A	**Physical State:**	Gas
Vapor Pressure:	635 psig	**Solubility (H_2O):**	Soluble		

Appearance and Odor:
Pure acetylene is a colorless gas with an ethereal odor. Commercial (carbide) acetylene has a distinctive garlic-like odor.

How to Detect This Substance:
N/A

Other Physical and Chemical Data:
Liquid density at boiling point, 38.8 lb/ft^3 (622 kg/m^3)
Gas density at 70° F 1 atm, 0.0691 lb/ft^3 (1.107 kg/m^3)

4. Fire and Explosion Hazard Data

Flammability Classification:	Flammable	**Flash Point (F):**	N/A	**LEL (%):**	2.2
Ignition Temperature:	565° F	**Method:**	N/A	**UEL (%):**	82.5

Extinguishing Media:
Carbon dioxide; Dry chemical; Water spray

Fire Fighting Procedures:
Stop flow of gas before extinguishing fire. If flame is small and originating from fusible plug or valve stem, attempt to extinguish flame. A glove, heavy cloth or any wet material slapped across the flame will frequently extinguish it. If flame is large and originating from fusible plug, do not attempt to extinguish unless cylinder is outdoors or in a well-ventilated area away from sources of ignition. Escaping gas may be easily re-ignited by adjacent ignition sources. Use water spray to keep fire-exposed containers cool. Burning or heated cylinders may rupture violently. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Fight fire from protected location or maximum possible distance.

Fire & Explosion Hazard:
Gaseous acetylene is spontaneously combustible in air at pressure above 30 pi. Acetylene requires very low ignition energy; therefore extinguished fires may easily re-ignite if the flow of gas is not stopped. Acetylene has a density very similar to that of air, so leaking acetylene does not readily dissipate. Gas may travel to an ignition source and flash back.

5. Reactivity Data

Stability: Unstable — **Hazardous Polymerization:** May occur

Incompatibility:
Oxygen and oxidizers including halogens and halogen compounds. Forms explosive acetylide compounds with copper, mercury, silver, brass (>66% copper), and brazing materials containing silver or copper.

5. Reactivity Data (Continued)

Conditions to Avoid:
Do not allow free gas (outside of cylinder) to exceed 30 psi. Cylinders should not be exposed to sudden shock or sources of heat.

Hazardous Decomposition or Byproducts:
Under high pressure, acetylene decomposes to carbon and hydrogen. Carbon monoxide may be produced from burning.
Under certain conditions, acetylene forms acetylide compounds when in contact with copper, silver and mercury.

Other Reactivity Data:
Flammable over an extremely wide range in air. Explosive reactions may occur on ignition. Reacts explosively with halogens and halogenated compounds.
Electrical classification: Class 1, Group A

6. Health Hazard Data

Route(s) of Entry:

Eye contact	Skin Contact	Skin Absorption
No	No	No

Inhalation	Ingestion
Yes	No

Health Hazards:

Acute Product is a simple asphyxiant. Effects of oxygen deficiency may include any, all or none of the following: rapid breathing, diminished mental alertness, impaired muscle coordination, blurred speech, and fatigue. As asphyxiation progresses, nausea, vomiting, and loss of consciousness may occur, eventually leading to convulsions, coma and death.

Chronic N/A

Carcinogenicity:

NTP	IARC Monographs	OSHA
No	No	No

Signs and Symptoms of Exposure and Emergency First Aid Procedures:

Eye Contact N/A

Skin Contact N/A

Inhalation Product is a simple asphyxiant. Effects of oxygen deficiency may include any, all or none of the following: rapid breathing, diminished mental alertness, impaired muscle coordination, blurred speech, and fatigue. As asphyxiation progresses, nausea, vomiting, and loss of consciousness may occur, eventually leading to convulsions, coma and death.
Under normal operating conditions, acetone is not released from the cylinder. However, if the cylinder is overcharged with acetone or acetylene, acetone may occasionally "spit" out. Acetone is primarily a central nervous system toxin causing headache, nausea, dizziness, vomiting and fatigue. Moderate concentrations may cause respiratory irritation.

Conscious victim should be assisted to an uncontaminated area and allowed to inhale fresh air. Unconscious victim should be moved to an uncontaminated area and given assisted respiration with supplemental oxygen. Further treatment should be symptomatic and supportive.

Ingestion N/A

Medical Conditions Aggravated by Exposure:
Persons having health conditions that may be aggravated by exposure to acetylene should not be allowed to work with this product.

7. Precautions for Safe Handling and Use

Actions if Released or Spilled:
Evacuate all personnel from affected area. Use appropriate personal protective equipment.
If possible to do so safely, shut off all ignition sources and close cylinder valve. For small leaks, the cylinder may be moved outdoors and away from ignition sources. If leak is in the user's equipment, be certain to purge piping with inert gas prior to attempting repairs. If leak is in cylinder or cylinder valve, contact the nearest distributor.

7. Precautions for Safe Handling and Use (Continued)

Waste Disposal Method:
Do not attempt to dispose of waste or unused quantities. Return in properly labeled shipping container, with any valve outlet plugs or caps secured and valve protection caps in place.

Handling and Storage Precautions:
Use only in well-ventilated areas. Valve protection caps must remain in place unless cylinder is secured with valve outlet piped to point of use. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure-reducing regulator when connecting cylinder to lower pressure piping or systems. Do not heat cylinder. Use a check valve or trap in the discharge line to prevent hazardous backflow into the cylinder.
Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavy traffic areas and emergency exits. Do not allow temperature of cylinder storage area to exceed 125^{o} F. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Acetylene cylinders should never be stored on their sides. This makes the acetylene unstable and increases the likelihood of solvent release during use. Do not attempt to repair or alter cylinders. Do not tamper with the valve, pressure relief devices or fusible plugs. If the fusible plug or valve begins to leak, move the cylinder to an open area and contact the nearest distributor. A leaking cylinder should be properly marked to prevent further use. Never allow a torch flame to come in contact with the cylinder or fusible plug.
Do not store acetylene within 20 feet of oxygen or combustible materials unless separated by a one-half hour rated 5 feet high firewall. Post "NO SMOKING OR OPEN FLAMES" signs in the storage and use area.

Other Precautions:
To prevent solvent withdrawal from the cylinder during use, always follow supplier instructions for maximum withdrawal rate for each size of cylinder.
Compressed gas cylinders should only be refilled by qualified personnel. Shipment of compressed gas cylinders, which have been filled without the consent of the cylinder owner, is a violation of federal law (49 CFR).
Always secure cylinders in an upright position during transportation. Never transport cylinders in enclosed space such as a vehicle truck or van.
For additional recommendations, see CGA Pamphlets P-1, G-1, SB-4; NFPA 51; OSHA 1910 Subpart H and Q.

Transportation Information:

Shipping Name	Acetylene, dissolved
Hazard Class	2.1
ID Number	UN1001
Shipping Label - 1	Flammable Gas

NFPA Rating:

Health: 0 **Flammability:** 4 **Reactivity:** 0

8. Control Measures

Eye Protection:
Safety goggles or glasses as appropriate.

Protective Gloves:
PVC or rubber gloves for laboratory use; as required for welding and cutting.

Respiratory Protection:
Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.

Ventilation:
Local exhaust to prevent acetylene accumulation above the exposure limit and to maintain oxygen concentration above 19.5%. Mechanical ventilation should be designed in accordance with electrical codes.

Other Protective Clothing or Equipment:
Safety shoes, safety shower.

9. Regulatory Information

Acetone is regulated as a Hazardous Substance under CERCLA

Acetylene is listed under the Clean Air Act (CAA) Section 112(r) with a threshold quantity (TQ) of 10,000 pounds.

SARA TITLE III NOTIFICATIONS AND INFORMATION
Releases of acetone in quantities equal to or greater than the reportable quantity (RQ) of 5,000 pounds are subject to reporting to the National Response Center under CERCLA, Section 304 SARA Title III.

Sara Title III – Section 313 Supplier Notification
This product does not contain toxic chemicals subject to reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

SARA Title III – Hazard Classes
Acute Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard
Reactivity Hazard

Disclaimer of Expressed and Implied Warranties

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose.

Date Prepared: July 1, 1992

Date Reviewed: January 8, 2001

MATERIAL SAFETY DATA SHEET

Product Name: Acetylene — January 8, 2001

1. Chemical, Product and Company Identification

Linweld, Inc
9911 Deer Park Road
Waverly, NE 68462

Telephone Number
Information: (402) 786-3330
Emergency: (402) 786-5277

Product Name: Acetylene
Chemical Name: Acetylene
Common Names: Acetylene; Ethyne

2. Hazard Ingredients and Identity Information

COMPONENT	% VOLUME	OSHA-PEL	ACGIH-TLV	CAS NUMBER
Acetylene	95.0 to 99.6	Not Available	Simple Asphyxiant	000074-86-2
Acetone	Unavailable	1000 ppm TWA	750 ppm TWA 1000 ppm STEL	000067-64-1

3. Physical and Chemical Characteristics

Boiling Point:	-118.8° F	**Specific Gravity:**	0.906	**pH:**	N/A
Melting Point:	-116° F	**Evaporation Rate:**	N/A	**Physical State:**	Gas
Vapor Pressure:	635 psig	**Solubility (H_2O):**	Soluble		

Appearance and Odor:
Pure acetylene is a colorless gas with an ethereal odor. Commercial (carbide) acetylene has a distinctive garlic-like odor.

How to Detect This Substance:
N/A

Other Physical and Chemical Data:
Liquid density at boiling point, 38.8 lb/ft^3 (622 kg/m^3)
Gas density at 70° F 1 atm, 0.0691 lb/ft^3 (1.107 kg/m^3)

4. Fire and Explosion Hazard Data

Flammability Classification:	Flammable	**Flash Point (F):**	N/A	**LEL (%):**	2.2
Ignition Temperature:	565° F	**Method:**	N/A	**UEL (%):**	82.5

Extinguishing Media:
Carbon dioxide; Dry chemical; Water spray

Fire Fighting Procedures:
Stop flow of gas before extinguishing fire. If flame is small and originating from fusible plug or valve stem, attempt to extinguish flame. A glove, heavy cloth or any wet material slapped across the flame will frequently extinguish it. If flame is large and originating from fusible plug, do not attempt to extinguish unless cylinder is outdoors or in a well-ventilated area away from sources of ignition. Escaping gas may be easily re-ignited by adjacent ignition sources. Use water spray to keep fire-exposed containers cool. Burning or heated cylinders may rupture violently. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Fight fire from protected location or maximum possible distance.

Fire & Explosion Hazard:
Gaseous acetylene is spontaneously combustible in air at pressure above 30 pi. Acetylene requires very low ignition energy; therefore extinguished fires may easily re-ignite if the flow of gas is not stopped. Acetylene has a density very similar to that of air, so leaking acetylene does not readily dissipate. Gas may travel to an ignition source and flash back.

5. Reactivity Data

Stability: Unstable — **Hazardous Polymerization:** May occur

Incompatibility:
Oxygen and oxidizers including halogens and halogen compounds. Forms explosive acetylide compounds with copper, mercury, silver, brass (>66% copper), and brazing materials containing silver or copper.

5. Reactivity Data (Continued)

Conditions to Avoid:
Do not allow free gas (outside of cylinder) to exceed 30 psi. Cylinders should not be exposed to sudden shock or sources of heat.

Hazardous Decomposition or Byproducts:
Under high pressure, acetylene decomposes to carbon and hydrogen. Carbon monoxide may be produced from burning.
Under certain conditions, acetylene forms acetylide compounds when in contact with copper, silver and mercury.

Other Reactivity Data:
Flammable over an extremely wide range in air. Explosive reactions may occur on ignition. Reacts explosively with halogens and halogenated compounds.
Electrical classification: Class 1, Group A

6. Health Hazard Data

Route(s) of Entry:

Eye contact	Skin Contact	Skin Absorption
No	No	No

Inhalation	Ingestion
Yes	No

Health Hazards:

Acute Product is a simple asphyxiant. Effects of oxygen deficiency may include any, all or none of the following: rapid breathing, diminished mental alertness, impaired muscle coordination, blurred speech, and fatigue. As asphyxiation progresses, nausea, vomiting, and loss of consciousness may occur, eventually leading to convulsions, coma and death.

Chronic N/A

Carcinogenicity:

NTP	IARC Monographs	OSHA
No	No	No

Signs and Symptoms of Exposure and Emergency First Aid Procedures:

Eye Contact N/A

Skin Contact N/A

Inhalation Product is a simple asphyxiant. Effects of oxygen deficiency may include any, all or none of the following: rapid breathing, diminished mental alertness, impaired muscle coordination, blurred speech, and fatigue. As asphyxiation progresses, nausea, vomiting, and loss of consciousness may occur, eventually leading to convulsions, coma and death.
Under normal operating conditions, acetone is not released from the cylinder. However, if the cylinder is overcharged with acetone or acetylene, acetone may occasionally "spit" out. Acetone is primarily a central nervous system toxin causing headache, nausea, dizziness, vomiting and fatigue. Moderate concentrations may cause respiratory irritation.

Conscious victim should be assisted to an uncontaminated area and allowed to inhale fresh air. Unconscious victim should be moved to an uncontaminated area and given assisted respiration with supplemental oxygen. Further treatment should be symptomatic and supportive.

Ingestion N/A

Medical Conditions Aggravated by Exposure:
Persons having health conditions that may be aggravated by exposure to acetylene should not be allowed to work with this product.

7. Precautions for Safe Handling and Use

Actions if Released or Spilled:
Evacuate all personnel from affected area. Use appropriate personal protective equipment.
If possible to do so safely, shut off all ignition sources and close cylinder valve. For small leaks, the cylinder may be moved outdoors and away from ignition sources. If leak is in the user's equipment, be certain to purge piping with inert gas prior to attempting repairs. If leak is in cylinder or cylinder valve, contact the nearest distributor.

7. Precautions for Safe Handling and Use (Continued)

Waste Disposal Method:
Do not attempt to dispose of waste or unused quantities. Return in properly labeled shipping container, with any valve outlet plugs or caps secured and valve protection caps in place.

Handling and Storage Precautions:
Use only in well-ventilated areas. Valve protection caps must remain in place unless cylinder is secured with valve outlet piped to point of use. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure-reducing regulator when connecting cylinder to lower pressure piping or systems. Do not heat cylinder. Use a check valve or trap in the discharge line to prevent hazardous backflow into the cylinder.
Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavy traffic areas and emergency exits. Do not allow temperature of cylinder storage area to exceed 125^{o} F. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Acetylene cylinders should never be stored on their sides. This makes the acetylene unstable and increases the likelihood of solvent release during use. Do not attempt to repair or alter cylinders. Do not tamper with the valve, pressure relief devices or fusible plugs. If the fusible plug or valve begins to leak, move the cylinder to an open area and contact the nearest distributor. A leaking cylinder should be properly marked to prevent further use. Never allow a torch flame to come in contact with the cylinder or fusible plug.
Do not store acetylene within 20 feet of oxygen or combustible materials unless separated by a one-half hour rated 5 feet high firewall. Post "NO SMOKING OR OPEN FLAMES" signs in the storage and use area.

Other Precautions:
To prevent solvent withdrawal from the cylinder during use, always follow supplier instructions for maximum withdrawal rate for each size of cylinder.
Compressed gas cylinders should only be refilled by qualified personnel. Shipment of compressed gas cylinders, which have been filled without the consent of the cylinder owner, is a violation of federal law (49 CFR).
Always secure cylinders in an upright position during transportation. Never transport cylinders in enclosed space such as a vehicle truck or van.
For additional recommendations, see CGA Pamphlets P-1, G-1, SB-4; NFPA 51; OSHA 1910 Subpart H and Q.

Transportation Information:

Shipping Name	Acetylene, dissolved
Hazard Class	2.1
ID Number	UN1001
Shipping Label - 1	Flammable Gas

NFPA Rating:

Health: 0 **Flammability:** 4 **Reactivity:** 0

8. Control Measures

Eye Protection:
Safety goggles or glasses as appropriate.

Protective Gloves:
PVC or rubber gloves for laboratory use; as required for welding and cutting.

Respiratory Protection:
Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.

Ventilation:
Local exhaust to prevent acetylene accumulation above the exposure limit and to maintain oxygen concentration above 19.5%. Mechanical ventilation should be designed in accordance with electrical codes.

Other Protective Clothing or Equipment:
Safety shoes, safety shower.

9. Regulatory Information

Acetone is regulated as a Hazardous Substance under CERCLA

Acetylene is listed under the Clean Air Act (CAA) Section 112(r) with a threshold quantity (TQ) of 10,000 pounds.

SARA TITLE III NOTIFICATIONS AND INFORMATION
Releases of acetone in quantities equal to or greater than the reportable quantity (RQ) of 5,000 pounds are subject to reporting to the National Response Center under CERCLA, Section 304 SARA Title III.

Sara Title III – Section 313 Supplier Notification
This product does not contain toxic chemicals subject to reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

SARA Title III – Hazard Classes
Acute Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard
Reactivity Hazard

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CHEMetrics, Inc.
4295 Catlett Rd., Calverton, VA 20138
(800) 356-3072 (540) 788-9026
Fax (540) 788-4856 E-mail technical@chemetrics.com

24 Hour Emergency Numbers: **(703) 590-9204**
(540) 439-3860
Creation Date: **04/22/86 (1072-14)**
Revision Date: **07/22/04**

MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAMES: DISSOLVED OXYGEN CHEMets®, ULR CHEMets®, and Vacu-vials®

CATALOG NOS.: R-7501, R-7501V, R-7511, R-7518, R-7540, R-7540G, R-7540V and R-7553

DESCRIPTION: Reagent ampoules for the determination of dissolved oxygen in water. Each CHEMet™ contains approximately 0.50 mL of liquid reagent sealed under vacuum. Each ULR CHEMet™ contains approximately 1 mL of liquid reagent sealed under vacuum. Each Vacu-vial™ contains approximately 2 mL of liquid reagent sealed under vacuum.

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Diethylene Glycol
CAS NO.: 111-46-6 PERCENT: 25.0

COMPONENT: Deionized Water
CAS NO.: 7732-18-5 PERCENT: >74.0

COMPONENT: Other components
CAS NO.: N/A PERCENT: < 1.0

Any component of this mixture not specifically listed (e.g. "other components") is not considered to present a carcinogen hazard.

III. HAZARDS IDENTIFICATION

Harmful if swallowed.
ACUTE TOXICITY: Irritation, nausea, diarrhea, nerve depression
CHRONIC TOXICITY: Irritation, liver or kidney lesions
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, liver or kidney disorders

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes.
INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.
INHALATION: Remove individual to fresh air.

V. FIRE FIGHTING MEASURES

FLASH POINT: N/A AUTOIGNITION POINT: N/A
FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam

VI. ACCIDENTAL RELEASE MEASURES

Take up with absorbent material. Place in small containers for disposal.

VII. HANDLING AND STORAGE

If this product is used as directed, the user will not come in contact with or be exposed to any of its chemical components.
Wash thoroughly after handling. Avoid contact with eyes.
Fragile. Liquid in glass. Handle with care.
The reagent in these ampoules is light sensitive. Product should be stored in the dark and at room temperature; however, temperatures up to 120°F or even below freezing will not normally affect reagent performance.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL & ACGIH TLV: N/A
PROTECTIVE EQUIPMENT: Safety glasses

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid APPEARANCE: Colorless to pale yellow ODOR: None
SOLUBILITY IN WATER: Miscible pH: 11.5
BOILING POINT: 150°C MELTING POINT: -5.0°C
VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.03
VAPOR DENSITY: N/A

X. STABILITY AND REACTIVITY

INCOMPATIBILITIES: Acids
HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, oxides of carbon may be emitted.
Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGEN STATUS: None
No other data available at this time.

XII. ECOLOGICAL INFORMATION

Diethylene Glycol has a low bioconcentration potential and is practically non-toxic to aquatic organisms.
No other data available at this time.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

XIV. TRANSPORT INFORMATION

Not regulated.

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:
EU Symbols: Xn - HARMFUL
Risk Phrases: Harmful if swallowed.
Safety Phrases: If swallowed, seek medical advice immediately (show the label where possible).
CANADIAN INFORMATION:
WHMIS Classification: D2B
All chemical components of this product are listed on Canada's DSL list.
U.S. INFORMATION:
All chemical components of this product are listed on the TSCA Inventory.

XVI. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

CHEMets®, ULR CHEMets® and Vacu-vials® are registered trademarks of CHEMetrics, Inc.

Nitrous oxide (refrigerated)

AL093B

Label 2.2 : Non flammable, non toxic gas.

Label 5.1 : Oxidizing substances.

O : Oxidizing

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : Nitrous oxide (refrigerated)

MSDS No : AL093B

Chemical formula : N2O

Company identification : AIR LIQUIDE SA
France
See paragraph 16 "OTHER INFORMATION"

Emergency phone nr : See paragraph 16 "OTHER INFORMATION"

2 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation : Substance.

Substance name		Contents	CAS No	EC No	Index No	Classification
Nitrous oxide (refrigerated)	:	100 %	10024-97-2	233-032-0	-----	O; R8

Contains no other components or impurities which will influence the classification of the product.

3 HAZARDS IDENTIFICATION

Hazards identification : Refrigerated liquefied gas. Contact with product may cause cold burns or frostbite. Oxidant. Strongly supports combustion. May react violently with combustible materials.

4 FIRST AID MEASURES

First aid measures

- Inhalation : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.
In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.
Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

- Skin/eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.
In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.

- Ingestion : Ingestion is not considered a potential route of exposure.

5 FIRE-FIGHTING MEASURES

Flammable class : Non flammable.

Specific hazards : Exposure to fire may cause containers to rupture/explode.
Supports combustion.

Hazardous combustion products : If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition :
Nitric oxide/nitrogen dioxide.

5 FIRE-FIGHTING MEASURES (continued)

Extinguishing media

- Suitable extinguishing media : All known extinguishants can be used.

Specific methods : If possible, stop flow of product.
Move away from the container and cool with water from a protected position.
If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire.

Special protective equipment for fire fighters : Use self-contained breathing apparatus and chemically protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Evacuate area.
Ensure adequate air ventilation.
Eliminate ignition sources.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
Use protective clothing.

Environmental precautions : Try to stop release.
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Clean up methods : Ventilate area.
Keep area evacuated and free from ignition sources until any spilled liquid has evaporated. (Ground free from frost).

7 HANDLING AND STORAGE

Storage : Segregate from flammable gases and other flammable materials in store.
Keep container below 50°C in a well ventilated place.

Handling : Use no oil or grease.
Open valve slowly to avoid pressure shock.
Suck back of water into the container must be prevented.
Do not allow backfeed into the container.
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
Keep away from ignition sources (including static discharges).
Refer to supplier's container handling instructions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection : Do not smoke while handling product.
Ensure adequate ventilation.
Protect eyes, face and skin from liquid splashes.

Occupational Exposure Limits : Nitrous oxide (refrigerated) : TLV© -TWA [ppm] : 50
Nitrous oxide (refrigerated) : OEL (UK)-LTEL [ppm] : 100
Nitrous oxide (refrigerated) : MAK - Germany [ppm] : 100

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C : Refrigerated liquefied gas.

Colour : Colourless liquid.

Odo(u)r : Sweetish.
Poor warning properties at high concentrations.

9 PHYSICAL AND CHEMICAL PROPERTIES (continued)

Molecular weight	: 44
Melting point [°C]	: -90.81
Boiling point [°C]	: -88.5
Critical temperature [°C]	: 36.4
Vapour pressure, 20°C	: 50.8 bar
Relative density, gas (air=1)	: 1.5
Relative density, liquid (water=1)	: 1.2
Solubility in water [mg/l]	: 2.2
Flammability range [vol% in air]	: Oxidiser.
Auto-ignition temperature [°C]	: Not applicable.
Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10 STABILITY AND REACTIVITY

Stability and reactivity : May react violently with combustible materials.
May react violently with reducing agents.
Violently oxidises organic material.
Thermal decomposition yields toxic products which can be corrosive in the presence of moisture. At temperatures over 575°C and at atmospheric pressure, nitrous oxide decomposes into nitrogen and oxygen. Pressurized nitrous oxide can also decompose at temperatures equal or greater than 300°C. In the presence of catalysts (e.g. halogen products, mercury, nickel, platinum) the rate of decomposition increases and decomposition can occur at even lower temperatures. Nitrous oxide dissociation is irreversible and exothermic, leading to a considerable rise in pressure.
Liquid spillages can cause embrittlement of structural materials.

11 TOXICOLOGICAL INFORMATION

Toxicity information : No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION

Ecological effects information : Can cause frost damage to vegetation.
When discharged in large quantities may contribute to the greenhouse effect.

Global warming factor [CO2=1] : 310

13 DISPOSAL CONSIDERATIONS

General : To atmosphere in a well ventilated place.
Do not discharge into any place where its accumulation could be dangerous.
Contact supplier if guidance is required.
Discharge to atmosphere in large quantities should be avoided.

14 TRANSPORT INFORMATION

UN No.	: 2201
H.I. nr	: 225
ADR/RID	

14 TRANSPORT INFORMATION (continued)

- Proper shipping name : NITROUS OXIDE, REFRIGERATED LIQUID

- ADR Class : 2

- ADR/RID Classification code : 3 O

- Labelling ADR : Label 2.2 : Non flammable, non toxic gas.
Label 5.1 : Oxidizing substances.

Other transport information : Avoid transport on vehicles where the load space is not separated from the driver's compartment.
Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
Before transporting product containers :
- Ensure that containers are firmly secured.
- Ensure cylinder valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.
- Ensure there is adequate ventilation.
- Compliance with applicable regulations.

15 REGULATORY INFORMATION

EC Classification : Not included in Annex I.
Proposed by the industry.
O; R8

EC Labelling

- Symbol(s) : O : Oxidizing

- R Phrase(s) : R8 : Contact with combustible material may cause fire.

- S Phrase(s) : S9 : Keep container in a well-ventilated place.
S17 : Keep away from combustible material.
S36 : Wear suitable protective clothing.

16 OTHER INFORMATION

Asphyxiant in high concentrations.
May cause frostbite.
The hazard of asphyxiation is often overlooked and must be stressed during operator training.
Ensure all national/local regulations are observed.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

Recommended uses and restrictions : This SDS is for information purposes only and is subject to change without notice. [Prior to purchase of products, please contact your local AIR LIQUIDE office for a complete SDS (with Manufacturer's name and emergency phone number).]

End of document

iSOC® Technology

Material Safety Data Sheet: Nitrogen

Product Name: Nitrogen	**CAS:** 7727-37-9
Nitrogen; Nitrogen, compressed (D.O.T.)	**DOT I.D No.:** UN 1066
Chemical Name and Synonyms: Nitrogen	**DOT Hazard Class:** Division 2.2
Formula: N_2	**Chemical Family:** Inert Gas

HEALTH HAZARD DATA

Time Weighted Average Exposure Limit:

Nitrogen is defined as a simple asphyxiant (ACGIH 1994-1995i; OSHA 1993 PEL (8 Hr. TWA) = None listed.

Symptoms of Exposure:

Effects of exposure to high concentrations so as to displace the oxygen in air necessary for life may include any, all or none of the following: • Loss of balance or dizziness • Tightness in the frontal area of the forehead.

Toxicological Properties:

- Nitrogen is nontoxic but the liberation of a large amount in a confined area could displace the amount of oxygen in air necessary to support life.
- Nitrogen is not listed in the LARC, NTP or by OSHA as a carcinogen or potential carcinogen.
- Persons in ill health where such illness would be aggravated by exposure to nitrogen should not be allowed to work with or handle this product.

Recommended First Aid Treatment:

Prompt medical attention is mandatory in all cases of overexposure to nitrogen. Rescue personnel should be equipped with self-contained breathing apparatus.

Inhalation: Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given assisted respiration and supplemental oxygen. Further treatment should be symptomatic and supportive.

Hazardous Mixtures of other Liquids, Solids or Gases: None.	
PHYSICAL DATA	
Boiling Point: -320.5°F (-195.8°C)	**Liquid Density at Boiling Point:** 4.43 lb/ft3 (70.96 kg/m3)
Vapor Pressure @ 70°F (21.1°C) = Above the critical temperature of -232.6°F (-147°C)	**Gas Density at 70°F. 1 atm** .0725 lb/ft3 (1.161 kq/m3)
Solubility in Water: Very slightly	**Freezing Point:** -345.9°F (-209.9°C)
Evaporation Rate: N/A (Gas)	**Specific Gravity (AIR=1)** @ 70°F (21.1°C) = 0.97
Appearance and Odor: Colorless, odorless gas	

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used): N/A Gas	**Auto Ignition Temperature:** N/A	**Flammable Limits % by Volume:** LEL N/A UEL N/A
Extinguishing Media: Carbon dioxide, dry chemical		**Electrical Classification:** Nonhazardous
Special Fire fighting Procedures: Nonflammable inert gas		
Unusual Fire and Explosion Hazards: If cylinders are involved in a fire, safely relocate or keep cool with water spray.		

REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

Conditions to Avoid: None

SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.

Waste disposal methods:

Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type): Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.

Ventilation: See Local Exhaust

Protective Gloves: Any material

Eye Protection: Safety goggles or glasses

Other Protective Equipment: Safety shoes

SPECIAL PRECAUTIONS

Special Labeling Information:

DOT Shipping Name: Nitrogen, Compressed
DOT Hazard Class: Division 2.2
DOT Shipping Label: Nonflammable Gas
I.D. No.: UN 1066

Special Handling Recommendation:

Use only in well-ventilated areas. Valve protection caps must remain in place unless cylinder is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3,000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder. For additional handling recommendations, consult Compressed Gas Association's Pamphlets P-1, P-9, P-14, and Safety Bulletin SB-2.

Special Storage Recommendations:

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 125F (52C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a “first in -first out” inventory system to prevent full cylinders being stored for excessive periods of time. For additional storage recommendations, consult Compressed Gas Association’s Pamphlets P-1, P-9, P-14, and Safety Bulletin SB-2.

Other Recommendations or Precautions:

Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with his (written) consent is a violation of Federal Law (49CFR).

Special Packaging Recommendations:

Nitrogen is non-corrosive and may be used with any common structural materials.

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iSOC® Technology

Material Safety Data Sheet: Nitrogen

Product Name: Nitrogen	**CAS:** 7727-37-9
Nitrogen; Nitrogen, compressed (D.O.T.)	**DOT I.D No.:** UN 1066
Chemical Name and Synonyms: Nitrogen	**DOT Hazard Class:** Division 2.2
Formula: N_2	**Chemical Family:** Inert Gas

HEALTH HAZARD DATA

Time Weighted Average Exposure Limit:

Nitrogen is defined as a simple asphyxiant (ACGIH 1994-1995i; OSHA 1993 PEL (8 Hr. TWA) = None listed.

Symptoms of Exposure:

Effects of exposure to high concentrations so as to displace the oxygen in air necessary for life may include any, all or none of the following: • Loss of balance or dizziness • Tightness in the frontal area of the forehead.

Toxicological Properties:

- Nitrogen is nontoxic but the liberation of a large amount in a confined area could displace the amount of oxygen in air necessary to support life.
- Nitrogen is not listed in the LARC, NTP or by OSHA as a carcinogen or potential carcinogen.
- Persons in ill health where such illness would be aggravated by exposure to nitrogen should not be allowed to work with or handle this product.

Recommended First Aid Treatment:

Prompt medical attention is mandatory in all cases of overexposure to nitrogen. Rescue personnel should be equipped with self-contained breathing apparatus.

Inhalation: Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given assisted respiration and supplemental oxygen. Further treatment should be symptomatic and supportive.

Hazardous Mixtures of other Liquids, Solids or Gases: None.	
PHYSICAL DATA	
Boiling Point: -320.5°F (-195.8°C)	**Liquid Density at Boiling Point:** 4.43 lb/ft3 (70.96 kg/m3)
Vapor Pressure @ 70°F (21.1°C) = Above the critical temperature of -232.6°F (-147°C)	**Gas Density at 70°F. 1 atm** .0725 lb/ft3 (1.161 kq/m3)
Solubility in Water: Very slightly	**Freezing Point:** -345.9°F (-209.9°C)
Evaporation Rate: N/A (Gas)	**Specific Gravity (AIR=1)** @ 70°F (21.1°C) = 0.97
Appearance and Odor: Colorless, odorless gas	

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used): N/A Gas	**Auto Ignition Temperature:** N/A	**Flammable Limits % by Volume:** LEL N/A UEL N/A
Extinguishing Media: Carbon dioxide, dry chemical		**Electrical Classification:** Nonhazardous
Special Fire fighting Procedures: Nonflammable inert gas		
Unusual Fire and Explosion Hazards: If cylinders are involved in a fire, safely relocate or keep cool with water spray.		

REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

Conditions to Avoid: None

SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.

Waste disposal methods:

Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type): Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.

Ventilation: See Local Exhaust

Protective Gloves: Any material

Eye Protection: Safety goggles or glasses

Other Protective Equipment: Safety shoes

SPECIAL PRECAUTIONS

Special Labeling Information:

DOT Shipping Name: Nitrogen, Compressed
DOT Hazard Class: Division 2.2
DOT Shipping Label: Nonflammable Gas
I.D. No.: UN 1066

Special Handling Recommendation:

Use only in well-ventilated areas. Valve protection caps must remain in place unless cylinder is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3,000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder. For additional handling recommendations, consult Compressed Gas Association's Pamphlets P-1, P-9, P-14, and Safety Bulletin SB-2.

Special Storage Recommendations:

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 125F (52C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a “first in -first out” inventory system to prevent full cylinders being stored for excessive periods of time. For additional storage recommendations, consult Compressed Gas Association’s Pamphlets P-1, P-9, P-14, and Safety Bulletin SB-2.

Other Recommendations or Precautions:

Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with his (written) consent is a violation of Federal Law (49CFR).

Special Packaging Recommendations:

Nitrogen is non-corrosive and may be used with any common structural materials.

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MATERIAL SAFETY DATA SHEET

S O S PRODUCTS COMPANY INC
PO BOX 47
East Greenville, Pa. 18041
Phone (215)-679-6262 (215)-679-6263

SECTION I - GENERAL INFORMATION

Product Code: HS Revision Date: 08/06/07
Identification: HOT STOP LIQUID

SECTION II - HAZARDOUS INGREDIENTS

This product is not classified as hazardous in accordance with OSHA 1910.1200

Carcinogenicity: This product is NOT considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point:	230	Specific Gravity:	1.00
Vapor Pressure:	17.00	Melting Point:	NOT APPLICABLE
Vapor Density:	.06	Evaporation Rate:	GT 1

Solubility in Water: SOLUBLE
Odor and Appearance:

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: NOT APPLICABLE LEL: N/A
Flammable Limits: NONE VEL: N/A
Extinguishing Media: NOT APPLICABLE
Special Fire Fighting Procedures: WATER FOG, DRY CHEMICAL. NONE.
Unusual Fire and Explosion Hazards: NOT APPLICABLE

SECTION V - REACTIVITY DATA

This product is STABLE.
Conditions to avoid: NONE
Incompatibility: COMPATIBLE
Hazardous Decomposition: NONE
Hazardous Polymerization: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

Routes of Entry: Inhalation? NO
Skin? YES - PRIMARY
Ingestion? YES - SECONDARY
Health Hazards (Acute and Chronic): NONE KNOWN

Carcinogenicity: NTP? NO
IARC Monographs? NO
OSHA Regulated? NO
Signs and Symptoms of Exposure: NONE

Medical Conditions Generally Aggravated by Exposure: NONE KNOWN
Emergency and First Aid Procedures:
EYE: FLUSH 15 MINUTES AND CALL PHYCIAN. SKIN WASH WITH SOAP AND WATER.
INGESTION: DO NOT INDUCE VOMITING CALL PHYSICAN

SECTION VII - HANDLING PRECAUTIONS

Steps to be Taken if Material is Released or Spilled:

FLUSH WITH WATER INTO DRAIN; SOAK UP REMAINDER WITH OBSORBENT FLOOR
COMPOUND & SWEEP UP.

Waste Disposal Method:
NON-HAZARDOUS LANDFILL. COMPLY WITH LOCAL ORDINANCES

Precautions to be Taken in Handling and Storage: NONE
Other Precautions: NONE

SECTION VIII - CONTROL MEASURES

Respiratory Protection:	NONE REQUIRED
Ventilation Required:	LOCAL EXHAUST ADEQUATE
Protective Gloves:	NOT REQUIRED
Eye Protection:	SAFETY GOGGLES
Other Protective Equipment:	NONE REQUIRED FOR NORMAL USE
Work/Hygienic Practices:	WASH AFTER USING

The above information pertains to the product as it is currently formulated and is based upon the information available at this time. Additions of reducers or other additives to this product may substantially alter the composition and subsequent hazards of the product. Since conditions of use are outside of our control, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

GC/Waldom Electronics
1801 Morgan Street
Rockford, IL 61102
Product Information: (815) 968-9661

Product Name: Conductive Grease & Anti-Oxidant Compound
MSDS Number: 136
Revision Date: 08/07/00
Supersedes Date: 05/13/91

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type:	Lubricant	Emergency Contact:	Chemtrec
Product Name:	Conductive Grease & Anti-Oxidant Compound	Phone:	(800) 424-9300
Part Number(s):	19-820		

Section 1 – Identification of Product

HMIS RATINGS

Health	2	Least	0
Flammability	1	Slight	1
Reactivity	0	Moderate	2
Personal Protection	B	High	3
		Extreme	4
		Gloves, Safety Glasses	B

Section 2 – Hazardous Ingredients

Components	
Petroleum Oil Base Stocks:	Mixture
Lithium Soap:	Mixture
Zinc Powder:	7440-66-6
Graphite:	7782-42-5
Proprietary Additives:	Mixture

Exposure Limit for Product	Basis
5mg/m3 as fumes	OSHA 29CFR 1910.1000

Reported as Potential Carcinogen or Known Carcinogen: __ Yes ✓ No

Section 3 – Physical Data

Boiling Range: N/A

Vapor Density: _✓Heavier than air _Lighter than air

Evaporation Rate: _Faster than ether _✓Slower than ether

Percent Volatile:	Nil	Weight per gallon (lbs.) 8.5
Water Solubility:	Nil	
Appearance:	Gray, semi-solid grease	
Odor:	Sweet, alcohol-like odor	

Section 4 – Fire & Explosion Hazard Data

Flammability Classification:	OSHA: Combustible Liquid-Class SIIIA. Flash Point 430 deg. F. COC DOT: Not regulated.
Extinguishing Media:	☑ Foam ☑ CO_2 ☑ Dry Chemical ☐ Water Fog ☐ Other
Flammable or Explosive Limits (Approximate percent by volume in air):	Not Determined
Unusual Fire and Explosion Hazards:	Do Not Use Water
Special Firefighting Procedures:	Contact with water will generate hydrogen gas
Decomposition Products under Fire Conditions:	Smoke, carbon monoxide, zinc oxide, sulfur oxides, carbon dioxide.

Section 5 – Health Hazard Data

Primary Routes of Entry:	☑ Dermal ☐ Inhalation ☐ Ingestion
Effects of Overexposure Variability Among Individuals:	Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized. Do Not Ingest.
Signs and Symptoms of Exposure:	Prolonged or repeated skin contact may cause skin irritation.
Nature of Hazard:	This product is relatively non-irritating, however, prolonged or repeated skin contact may tend to remove skin oils possibly leading to irritation. If injected under the skin, regardless of the appearance of the wound, contact a physician immediately. Product is relative non-irritating to eyes, but prolonged contact may cause redness and irritation. Do Not Ingest.
Emergency and First Aid Procedures	
Eyes:	Flush eyes with water for a least 15 minutes. If irritation occurs, call a physician.
Skin:	Wash thoroughly with soap and water. Remove any contaminated clothing and launder before reuse.
Inhalation:	Vapor pressure is very low. Vapor inhalation under ambient conditions not anticipated to be a problem.

Ingestion:	Do not induce vomiting. Call a physician.

Section 6 – Reactivity Data

Stability:	This product is stable and will not react violently with water.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, Sodium hypochlorite or calcium.

Section 7 – Spill or Leak Procedures

In Case of Leak or Spill:	Absorb small spill with clay, diatomaceous earth or other inert material.
In Case of Large Spill:	Scrape up material into waste containers.
Waste Disposal Method:	Material collected or absorbed may be incinerated or deposited in an approved landfill site in accordance with local, state and federal regulations. Advise authorities if product has entered or may enter sewers, waterways or extensive land area.

Section 8 – Special Protection Information

Respiratory Protection:	None required in normal use.
Ventilation:	Normal room ventilation is satisfactory.
Protective Gloves:	Neoprene or nitrile rubber gloves recommended, in case of prolonged or repeated contact.
Eye Protection:	Safety goggles or glasses when eye contact may occur.
Other Protection:	Long sleeved shirts recommended.
Hygenic Practices:	Wash hands with soap and water after handling product. Remove contaminated clothing and launder before reuse.

Section 9 – Special Precautions

Precautions to be taken in handling and Storage:	Keep containers closed when not in use. Do not handle or store near excess heat, sparks or open flame.
Other Precautions:	Empty containers retain residue. (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER

SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Section 10-Regulatory Information

Addendum:

SARA title III Section 313, please note the presence of the following lsited Chemical(s) in this product: Zinc dust CAS#7440-66-6 <20%
ACGIH TLV 10 mg/m^3 as respirable dust*

*not applicable to this product

Disclaimer

GC/Waldom Electronics, Inc. believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Persons receiving this information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC/WALDOM ELECTRONICS, INC.

Kidde de México

Av. División del Golfo 3308
87019 Cd. Victoria, Tamaulipas, México
e-mail: kidde.mexico@kidde.com.mx

MATERIAL SAFETY DATA SHEET
ABC 90 DRY CHEMICAL POWDER – POLVO QUÍMICO SECO ABC 90

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name / Label Name:	ABC 90% Made to Badger Formulation
CAS Number:	N/A
Chemical Name / Family	N/A It is a mixture
Synonyms:	ABC 90 fire extinguishing powder Multipurpose Fire extinguishing agent
Manufacturer's Name:	KIDDE DE MEXICO, S. A. de C. V.
Address:	Av. División del Golfo 3308 Nte. 87019 Cd. Victoria, Tamaulipas, MÉXICO
Business phone / Fax:	+52 (834) 318-75-00 / +52 (834) 318-75-29
Date of preparation:	October 13, 2005

SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS N°	% w/w	OSHA PEL mg/m^3	ACGIH TLV mg/m^3	TOXICITY DATA
Monoammonium phosphate	7722-76-1	92 - 94	NONE	NONE	NONE
Mica	12001-26-2	1 – 3	3	3	NONE
Attapulgus clay	8031-18-3	2 - 4	NONE	NONE	NONE
Amorphous silica	7631-86-9	0.2 – 1.5	6	10	NONE
Methyl Hydrogen Polysiloxane	63148-57-2	0.4 – 1.0	NONE	NONE	NONE

SECTION 3 – PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling point, °C:	N/A	**Specific gravity (H_20=1)**	ABOUT 1.9	**Viscosity @ 20°C:**	N/A
Vapor pressure, mm Hg:	N/A	**Percent volatile by volume:**	N/A	**Melting point, °C:**	NDA
Vapor density (Air=1):	N/A	**Evaporation rate (Butyl acetate=1)**	N/A	**Solubility in water:**	22.7 g/100g
Reactivity in water:	Unreactive	**Appearance and odor:**	Odorless, pale yellow coloured fine powder		

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash point:	N/A	**Flammable limits in air, % by volume**	N/A	**Auto-ignition temperature:**	N/A
Extinguishing media:	N/A – The product is a fire extinguishing agent				
Unusual fire and explosion hazards:	NONE				
Special fire fighting procedures:	The material is a fire extinguishing agent and will not burn. However, if other materials are involved, use standard chemical fire fighting procedures and consider the hazards of those materials. In enclosed areas, fire fighters must wear self-contained breathing apparatus and full protective equipment.				

SECTION 5 – REACTIVITY DATA

Stability:	Stable	**Conditions to avoid:**	Extreme heat	**Hazardous polymerization:**	Will not occur
Incompatibility (materials to avoid):	Strong alkalis. Do not mix with BC type dry chemical extinguishing agents.				
Hazardous decomposition products:	Ammonia, phosphorus oxides.				

SECTION 6 – HEALTH HAZARD DATA

Threshold limit value:	ACGIH TLV for particulates not otherwise classified: 10 mg/m^3 OSHA PEL for nuisance dust limit total: 15 mg/m^3
Routes of entry:	**Inhalation:** YES; may be irritant to the respiratory tract. **Eye contact:** YES; mildly irritant for a short period. **Skin contact:** YES; may be mildly irritating. **Ingestion:** NOT an expected route of entry.
Signs and symptoms of overexposure:	**Acute:** Transient cough, shortness of breath, irritation of airways. **Chronic:** This product is not known to cause chronic illness.
Medical conditions generally aggravated by exposure:	Asthma, emphysema, bronchitis or other respiratory illness.
Chemical listed as carcinogen or potential:	NTP program: No IARC monographs: No OSHA: No
Emergency and first aid procedures:	**Eye contact:** Flush with large amounts of water for at least 15 minutes. If irritation persists, seek medical attention. **Skin contact:** Wash with soap and water. If irritation persists, seek medical attention. **Inhalation:** Move victim to fresh air. Seek medical attention if discomfort continues. **Ingestion:** Rinse mouth, drink large amounts of water and induce vomiting. Seek medical help.

SECTION 7 – SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

Precautions to be taken in handling and storage:	Should be stored in original containers. Store in dry, cool, well-ventilated place away from alkaline compounds. Wash after handling. Do not cut, grind, weld or drill on or near product containers. Treat empty containers as if they were full.
Other precautions:	Do not mix with alkaline materials.
Steps to be taken in case materials is released or spilled:	Sweep up or vacuum. Store in covered containers. Do not reuse. In case of large spills, use rubber gloves, chemically resistant suit and boots, hard hat and air purifying respirator.
Waste disposal method:	Dispose of in compliance with local, state and federal regulations. Components are non hazardous, sanitary landfill disposal may be acceptable

SECTION 8 – SPECIAL PROTECTION INFORMATION	
Respiratory protection:	Dust mask where dustiness is prevalent or TLV exceeded. Mechanical filter respirator if exposure is prolonged.
Ventilation:	Use adequate ventilation. Use fan or vent to outside.
Protective gloves:	Wear rubber gloves for routine industrial use.
Eye protection:	Recommended as mechanical barrier for prolonged exposure. Safety glasses or chemical type goggles.
Other protective equipment:	If irritation occurs, long sleeves and impervious gloves should be worn.
Work / Hygienic practices:	Use good personal hygiene and good housekeeping practices. Avoid breathing of dust. Wash with soap and water.

SECTION 9 – REGULATORY INFORMATION	
U.S. OSHA HAZARD COMMUNICATION STANDARD	Product assessed in accordance with OSHA 20 CFR 1910.1200 and determined not to be hazardous.
RCRA INFORMATION	The unused product, in our opinion, is not specifically listed by the EPA as hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity, and is not formulated with contaminants as determined by the toxicity characteristics leaching procedure (TCLP). However, used product may be regulated.
SARA Reporting Requirements	No component of this product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.
TSCA Inventory status	Kidde de México certifies that the product described herein complies with all applicable rules or orders under TSCA and no chemical substance for entry in violation under TSCA or any applicable rule or order thereunder TSCA is being offered.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS

HEALTH: 1	**FLAMMABILITY: 0**	**REACTIVITY: 0**

HAZARD INDEX:
0 Minimal hazard
1 Slight hazard
2 Moderate hazard
3 Serious hazard
4 Sever hazard

GENERAL KEYS:

N/A: Not applicable.
NDA: No data available.

The information herein is given in good faith. It is based on available data and is believed to be true and accurate, but no warranty, expressed or implied, is made. Therefore, *KIDDE DE MEXICO*. assumes NO responsibility for damage or injury from the use of the product described herein.

Kidde de México

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Mica	12001-26-2	1 – 3	3	3	NONE
Attapulgus clay	8031-18-3	2 - 4	NONE	NONE	NONE
Amorphous silica	7631-86-9	0.2 – 1.5	6	10	NONE
Methyl Hydrogen Polysiloxane	63148-57-2	0.4 – 1.0	NONE	NONE	NONE

SECTION 3 – PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling point, °C:	N/A	**Specific gravity (H_20=1)**	ABOUT 1.9	**Viscosity @ 20°C:**	N/A
Vapor pressure, mm Hg:	N/A	**Percent volatile by volume:**	N/A	**Melting point, °C:**	NDA
Vapor density (Air=1):	N/A	**Evaporation rate (Butyl acetate=1)**	N/A	**Solubility in water:**	22.7 g/100g
Reactivity in water:	Unreactive	**Appearance and odor:**	Odorless, pale yellow coloured fine powder		

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash point:	N/A	**Flammable limits in air, % by volume**	N/A	**Auto-ignition temperature:**	N/A
Extinguishing media:	N/A – The product is a fire extinguishing agent				
Unusual fire and explosion hazards:	NONE				
Special fire fighting procedures:	The material is a fire extinguishing agent and will not burn. However, if other materials are involved, use standard chemical fire fighting procedures and consider the hazards of those materials. In enclosed areas, fire fighters must wear self-contained breathing apparatus and full protective equipment.				

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Stability:	Stable	**Conditions to avoid:**	Extreme heat	**Hazardous polymerization:**	Will not occur
Incompatibility (materials to avoid):	Strong alkalis. Do not mix with BC type dry chemical extinguishing agents.				
Hazardous decomposition products:	Ammonia, phosphorus oxides.				

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Threshold limit value:	ACGIH TLV for particulates not otherwise classified: 10 mg/m^3 OSHA PEL for nuisance dust limit total: 15 mg/m^3
Routes of entry:	**Inhalation:** YES; may be irritant to the respiratory tract. **Eye contact:** YES; mildly irritant for a short period. **Skin contact:** YES; may be mildly irritating. **Ingestion:** NOT an expected route of entry.
Signs and symptoms of overexposure:	**Acute:** Transient cough, shortness of breath, irritation of airways. **Chronic:** This product is not known to cause chronic illness.
Medical conditions generally aggravated by exposure:	Asthma, emphysema, bronchitis or other respiratory illness.
Chemical listed as carcinogen or potential:	NTP program: No IARC monographs: No OSHA: No
Emergency and first aid procedures:	**Eye contact:** Flush with large amounts of water for at least 15 minutes. If irritation persists, seek medical attention. **Skin contact:** Wash with soap and water. If irritation persists, seek medical attention. **Inhalation:** Move victim to fresh air. Seek medical attention if discomfort continues. **Ingestion:** Rinse mouth, drink large amounts of water and induce vomiting. Seek medical help.

SECTION 7 – SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

Precautions to be taken in handling and storage:	Should be stored in original containers. Store in dry, cool, well-ventilated place away from alkaline compounds. Wash after handling. Do not cut, grind, weld or drill on or near product containers. Treat empty containers as if they were full.
Other precautions:	Do not mix with alkaline materials.
Steps to be taken in case materials is released or spilled:	Sweep up or vacuum. Store in covered containers. Do not reuse. In case of large spills, use rubber gloves, chemically resistant suit and boots, hard hat and air purifying respirator.
Waste disposal method:	Dispose of in compliance with local, state and federal regulations. Components are non hazardous, sanitary landfill disposal may be acceptable

SECTION 8 – SPECIAL PROTECTION INFORMATION	
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Ventilation:	Use adequate ventilation. Use fan or vent to outside.
Protective gloves:	Wear rubber gloves for routine industrial use.
Eye protection:	Recommended as mechanical barrier for prolonged exposure. Safety glasses or chemical type goggles.
Other protective equipment:	If irritation occurs, long sleeves and impervious gloves should be worn.
Work / Hygienic practices:	Use good personal hygiene and good housekeeping practices. Avoid breathing of dust. Wash with soap and water.

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical product and company identification

Product Name:	Super D Dry Powder Extinguishant
Synonym:	Class D Powder
Manufacturer:	AMEREX CORPORATION
Internet Address:	www.amerex-fire.com
Address:	7595 Gadsden Highway P.O. Box 81 Trussville, AL 35173-0081
Telephone:	(205) 655-3271
Emergency Contacts:	Chemtrec 1(800) 424-9300 or (703) 527–3887
Revised:	December, 2003

Section 2. Hazard identification and emergency overview

Emergency overview: Off-white, fine solid powder, odorless.

Adverse health effects and symptoms: Moderate irritant to the respiratory system and eyes; mild irritant to the skin. Symptoms may include stinging of eyes and abraded skin, coughing, shortness of breath, and irritation of the lungs, eyes, and skin.

Exposure guidelines:

Ingredients	OSHA PEL	ACGIH TLV	DFG MAK *
Sodium chloride	PNOC** Total dust, 15 mg/m^3 Respirable fraction, 5 mg/m^3	PNOC Total dust, 10 mg/m^3 Respirable fraction, 3 mg/m^3	PNOC Total dust, 4 mg/m^3 Respirable fraction, 1.5 mg/m^3
Mica	20 mppcf***	3 mg/m^3 respirable fraction	-------
Attapulgite clay	PNOC Total dust, 15 mg/m^3 Respirable fraction, 5 mg/m^3	PNOC Total dust, 10 mg/m^3 Respirable fraction, 3 mg/m^3	PNOC Total dust, 4 mg/m^3 Respirable fraction, 1.5 mg/m^3
Mineralite (Zeolite)	80 mg/m^3 % SiO_2	10 mg/m^3	4 mg/m^3
Magnesium stearate	PNOC Total dust, 15 mg/m^3 Respirable fraction, 5 mg/m^3	PNOC Total dust, 10 mg/m^3 Respirable fraction, 3 mg/m^3	PNOC Total dust, 4 mg/m^3 Respirable fraction,

			1.5 mg/m^3
Silica, amorphous (fumed)	PNOC Total dust, 15 mg/m^3 Respirable fraction, 5 mg/m^3	2 mg/m^3	0.3 mg/m^3

*German regulatory limits **PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) *** mppcf = million particles per cubic foot. All values are 8 hour time weighted average concentrations.

Hazard symbols: WHMIS (Canadian workplace hazardous materials identification system)

D2B may irritate eyes, mucous membranes, or skin

Section 3. Composition/information on ingredients

Name/Compound	Weight %	CAS #
Sodium chloride evaporated flour grade	87	7647-14-5
Attapulgite clay or Fullers earth magnesium aluminum silicate- contains > 1% crystalline silica	4.2	12174-11-7 14808-60-7
Mica potassium aluminum silicate	4.2	12001-26-2
Zeolite, synthetic amorphous precipitated silica	2.1	112926-00-8
Silica, amorphous, fumed	< 2	69012-64-2
Magnesium stearate octadecanoic acid, Mg salt	< 1	557-04-0

Section 4. First Aid Measures

Eye Exposure: Irrigate eyes at eye wash station and repeat until pain free. Seek medical attention if irritation develops or persists, or if visual changes occur.

Skin Exposure: In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

Inhalation: If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if irritation develops or persists.

Ingestion: Not known to present an ingestion hazard.

Medical conditions possibly aggravated by exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease. Chronic overexposure may cause pneumoconiosis ("dusty lung" disease).

Section 5. Fire fighting measures

Extinguishing media: non combustible and non flammable – product is an extinguishing agent

Unusual fire/explosion hazards: none known

Insensitive to mechanical impact or static discharge.

HMIS Hazard Ranking:
health = 1, flammability = 0, reactivity = 0, personal protective equipment: use N-95 dust mask (see Section 8)

Section 6. Accidental release measures

Clean up released material using vacuum or wet sweep and shovel to minimize generation of dust. Wear appropriate respiratory protection. Bag and drum for disposal. If product is used and/or contaminated, use PPE and containment appropriate to the nature of the mixture.

Section 7. Handling and storage

Avoid skin, eye, or respiratory exposure. Use appropriate PPE when handling or maintaining equipment, and wash thoroughly after handling (see Section 8). Keep product in original container or extinguisher. Contents may be under pressure – inspect for extinguisher rust periodically to insure container integrity. Do not mix with other extinguishing agents.

Section 8. Exposure controls/ personal protection

During the application of this product against fires, exhaust gases and the products of incomplete combustion (PICs) are the principal respiratory hazards. In the manufacture of extinguishers, automated systems and point source ventilation controls sufficiently minimize respiratory exposure. Employers and employees must use their collective judgment in determining occupational settings where the use of a dust mask or air purifying respirator is prudent. The need for respiratory protection is not likely for short-term use in well ventilated areas.

Respiratory protection: use N95 dust mask for limited exposure, use air-purifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged exposure.

Eye protection: wear chemical goggles

Skin protection: use nitrile, latex, or similar gloves and coveralls. Good personal hygiene practices essential, such as avoiding food, tobacco products, or other hand-to-mouth contact when handling. Wash thoroughly after handling.

Section 9. Physical and chemical properties

Appearance: off-white powder, finely divided odorless solid.
Specific gravity: ~ 1.0
Solubility: product is coated, not immediately soluble in water
Non –flammable
Flash point: none
Vapor pressure: < 1 mm Hg
pH: approximately 7 for a 10% solution
Boiling point: not applicable
No explosive or oxidizing properties

Section 10. Stability and reactivity

Stability: stable

Incompatibles: strong acids and strong oxidizers like bleach.

Decomposition products: heat of fire may release chlorine compounds and oxides of sodium.

Possibility of hazardous reactions: none

Section 11. Toxicological information

Acute toxicity: Sodium chloride LD_{50} (rat): oral, 3000 mg/kg body weight, LD_{50} (mouse): oral, 4000 mg/kg body weight, LDLo (lowest lethal dose) (rat): subcutaneous, 3500 mg/kg body weight, LDLo (dog): intraperitoneal, 364 mg/kg body weight.
Target organs in man: None. While an essential nutrient, sodium chloride is a mild irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the product causes sensitization.

Chronic toxicity: This product's ingredients are not considered as "probable" or "suspected" carcinogens by OSHA, IARC, or ACGIH. Pneumoconiosis, or "dusty lung" disease, may result from chronic exposure to any dust.

Reproductive toxicity: This product's ingredients are not known to have reproductive or teratogenic effects.

Section 12. Ecological information

Ecotoxicity: negative effects unknown.

Persistence/ Degradability: degrades slowly in humid/wet environment

Bioaccummulation: extent unknown

Mobility in soil: insoluble coating, poor mobility

Section 13. Disposal considerations

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

Section 14. Transportation information

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada “Transportation of Dangerous Goods” regulations.

Section 15. Regulatory information

International Inventory Status:

All ingredients are on the following inventories

Country(ies)	Agency	Status
United States of America	TSCA	Yes
Canada	DSL	Yes
Europe	EINECS/ELINCS	Yes
Australia	AICS	Yes
Japan	MITI	Yes
South Korea	KECL	Yes

European Risk and Safety phrases:

EU Classification:	Irritant	
R Phrases:	20	Harmful by inhalation.
	36/37	Irritating to eyes, respiratory system.
S Phrases:	22	Do not breathe dust.
	24/25	Avoid contact with skin and eyes
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

U.S. federal regulatory information:

None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

State regulatory information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: None
California – Permissible Exposure Limits for Chemical Contaminants: None
Florida – Substance List: Mica Dust
Illinois – Toxic Substance List: None
Kansas – Section 302/303 List: None
Massachusetts – Substance List: Mica Dust
Minnesota – List of Hazardous Substances: None
Missouri – Employer Information/Toxic Substance List: None
New Jersey – Right to Know Hazardous Substance List: None
North Dakota – List of Hazardous Chemicals, Reportable Quantities: None
Pennsylvania – Hazardous Substance List: None
Rhode Island – Hazardous Substance List: Mica Dust
Texas – Hazardous Substance List: No
West Virginia – Hazardous Substance List: None
Wisconsin – Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

Section 16. Other information

This MSDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format.

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by Lindsay R. Hill, CIH

MATERIAL SAFETY DATA SHEET

Kidde 55 Multi-Purpose Dry Chemical (Fire Extinguishing Agent)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Kidde 55 Multi –Purpose Dry Chemical (Fire Extinguishing Agent)
Other Trade Names	ABC, Ammonium Phosphate, Monoammonium Phosphate
Manufacturer/Supplier	Kidde – Residential and Commercial A United Technologies Company
Address	1016 Corporate Park Drive Mebane, NC 27302 USA
Phone Number	(919) 304-8200 (919) 563-5911
Chemtrec Number (for emergencies only)	(800) 424-9300 (703) 527-3887 (International)
Revision Date:	August 7, 2007
MSDS Date:	January 15, 2007

This MSDS has been compiled in accordance with - EC Directive 91/155/EC - OSHA's Hazcom Standard (29 CFR 1910.1200)

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Component Name	CAS#/Codes	Concentration	R Phrases	EU Classification
Monoammonium Phosphate	7722-76-1 EC#2317645	55 - 65%	None	None
Ammonium Sulfate	7783-20-2 EC#2319841	30 - 40%	None	None
Mica	12001-26-2	1 - 4%	None	None
Clay	8031-18-3	<2%	None	None
Amorphous Silica	7631-86-9 EC#2315454	<2%	None	None
Dye	NA	<0.1%	None	None

3. HAZARD IDENTIFICATION

EU Main Hazards
Non Hazardous Powder

Routes of Entry
- Eye contact - Inhalation - Skin contact

Carcinogenic Status
See Section 11 - Toxicity

Target Organs
- Respiratory System - Skin - Eye

Health Effects - Eyes
Contact for short periods of time may cause irritation.

Health Effects - Skin
Contact may cause mild irritation.

3. HAZARD IDENTIFICATION

Health Effects - Ingestion
Ingestion is not an expected route of exposure.

Health Effects - Inhalation
May irritate the respiratory tract. May cause transient cough and shortness of breath.

4. FIRST AID MEASURES

Eyes
Immediately flood the eye with plenty of water of warm water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin
Wash affected area with soap and water. Obtain medical attention if irritation persists.

Ingestion
Dilute by drinking large quantities of water and obtain medical attention.

Inhalation
Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

Advice to Physicians
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media
This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a blaze. Use extinguishing agent appropriate to other materials involved. Keep pressurized extinguishers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

Unusual Fire and Explosion Hazards
Pressurized containers may explode in heat of fire.

Protective Equipment for Fire-Fighting
Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Sweep up or vacuum. Prevent skin and eye contact. Wear appropriate protective equipment.

7. HANDLING AND STORAGE

Pressurized extinguishers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll extinguishers. Do not drop extinguishers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the extinguisher or plastic container. Store pressurized extinguishers and plastic containers away from high heat sources. Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards
Occupational exposure limits are listed below, if they exist.
Mica
ACGIH TLV: 3 mg/m3 TWA, measured as respirable fraction of the aerosol.
OSHA PEL: 20 mppcf, <1% crystalline silica
Nuisance Dust Limit
OSHA PEL: 50 mppcf or 15 mg/m3 TWA, total dust
15 mppcf or 5 mg/m3 TWA, respirable fraction
Engineering Control Measures
Use with adequate ventilation. There should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.

Respiratory Protection
Not normally required. Use dust mask where dustiness is prevalent, or TLV is exceeded.

Hand Protection
Not normally needed when used as a portable fire extinguisher. Use gloves if irritation occurs.

Eye Protection
Chemical goggles or safety glasses with side shields.

Body Protection
Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Powder
Color	Pale Yellow
Odor	Odorless
Specific Gravity	Not available
Boiling Range/Point (°C/F)	Not applicable
Flash Point (PMCC) (°C/F)	Not Flammable
Solubility in Water	Not applicable
Vapor Density (Air = 1)	Heavier than air.
Vapor Pressure	Not applicable
Evaporation Rate	Not applicable

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.

Conditions to Avoid
- Heat - High temperatures - Exposure to direct sunlight

Materials to Avoid
- Strong oxidizing agents - strong acids - sodium hypochlorite

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Will not occur.

Hazardous Decomposition Products
- oxides of carbon - ammonia – oxides of phosphorus – nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Low order of acute toxicity.

Chronic Toxicity/Carcinogenicity
This product is not expected to cause long term adverse health effects.

Mica and clay may contain small quantities of quartz (crystalline silica) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans.

Genotoxicity
This product is not expected to cause any mutagenic effects.

Reproductive/Developmental Toxicity
This product is not expected to cause adverse reproductive effects.

12. ECOLOGICAL INFORMATION

Mobility
No relevant studies identified.

Persistence/Degradability
No relevant studies identified.

Bio-accumulation
No relevant studies identified.

Ecotoxicity
No relevant studies identified.

13. DISPOSAL

Dispose of container in accordance with all applicable local and national regulations. Do not cut, puncture or weld on or near to the container. No harm to the environment is expected from this preparation.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not regulated
UN Proper Shipping Name	Not regulated
UN Class	None
UN Number	None
UN Packaging Group	None

15. REGULATORY INFORMATION

EU Label Information

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

EU Hazard Symbol and Indication of Danger.
This preparation is not classified as dangerous.

R phrases
None

S phrases
None.

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing
This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.

EINECS Listing
All ingredients in this product have not been verified for listing on the European Inventory of Existing Commercial Chemical Substances (EINECS) or the European List of New Chemical Substances (ELINCS).

DSL/NDSL (Canadian) Listing
All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

WHMIS Classification
D2B

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

MA Right To Know Law
All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimus concentration include: - Mica (12001-26-2) 1-4% - Amorphous Silica (7631-86-9) <2% - Ammonium Sulfate (7783-20-2) 30 - 40%

PA Right To Know Law
This product contains the following chemicals found on the Pennsylvania Hazardous Substance List: - Mica (12001-26-2) 1-4% - Amorphous Silica (7631-86-9) <2% - Ammonium Sulfate (7783-20-2)

30 - 40%

NJ Right To Know Law
This product contains the following chemicals found on the NJ Right To Know Hazardous Substance List: - Mica (12001-26-2) 1-4% - Amorphous Silica (7631-86-9) <2%

California Proposition 65
This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 302 (EHS)
This product does not contain any chemicals subject to SARA Title III Section 302.

SARA Title III Sect. 304
This product does not contain any chemicals subject to SARA Title III Section 304.

15. REGULATORY INFORMATION

SARA Title III Sect. 311/312 Categorization
- Immediate (Acute) Health Hazard

SARA Title III Sect. 313
This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings
NFPA Code for Health - 1
NFPA Code for Flammability - 0
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - None

HMIS Ratings
HMIS Code for Health - 1
HMIS Code for Flammability - 0
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8

Abbreviations
N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety

Prepared By: EnviroNet LLC.

The information contained herein is based on data believed to be accurate. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for its own particular use. Badger Fire Protection assumes no responsibility for personal injury or property damage resulting from use, handling or from contact with this product.

Kidde Fire Fighting

MATERIAL SAFETY DATA SHEET #KFFM010

ABC Multipurpose Dry Chemical

Fire Extinguisher

Section 1 – NAME & HAZARD SUMMARY

Material Name: DRY CHEMICAL Multipurpose Ammonium Phosphate
Supplier Name and Address: Kidde Fire Fighting
150 Gordon Drive · P.O. Box 695
Exton, PA 19341-0695 USA
Phone: (610) 363-1400 · Fax: (610) 524-9073
www.Kidde-Fire.com

Section 2 – INGREDIENTS

Material name: Siliceous Muscovite Mica, Mica
OSHA PEL: 20 MPPCF*
ACGIH TLV: 20 MPPCF*
Other Exposure Limits: None
CAS No.: 12001-26-2
*Million particles per cubic foot

Section 3 – PHYSICAL DATA

Boiling Point: NA
Specific Gravity (H2O = 1): 1.80
Vapor Pressure (mm Hq): NA
Vapor Density (Air -1): NA
Solubility In Water: Slightly water soluble
Appearance and Odor: Yellow powder, odorless
Melting Point: 374° Fahrenheit

Section 4 – FIRE & EXPLOSION HAZARD

Flash Point: Noncombustible
Method Used: NA
Flammable Limits in Air, % by Volume: LEL Lower: NA; UEL Upper: NA
Auto-Ignition Temperature: NA
Extinguisher Media: NA, This material is a fire extinguisher agent

Special Fire Fighting Procedures: NA
Unusual Fire and Explosion Hazards: NA

Section 5 – REACTIVITY DATA

Stability: Stable
Conditions to Avoid: NA
Incompatibility (Materials to Avoid): Do not mix with different types of dry chemical extinguishing agents
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: NA

Section 6 – HEALTH HAZARD ASSESSMENT

Acute: Transient cough, Irritation of airways, and shortness of breath
Chronic: Pneumonconiosis
Signs and Symptoms of Exposure: Coughing and irritation of airways
Medical Conditions Generally Aggravated by Exposure: Asthma, Bronchitis, or other respiratory illness
Chemical Listed as Carcinogen or Potential Carcinogen: N/A
Emergency and First Aid Procedures: Move victims to fresh air. Wash affected area with soap and water. Flush from eyes with large amounts of water for at least 15 minutes. Seek medical attention if necessary.
Routes of Entry: Inhalation, Eyes, Skin, Ingestion

Section 7 – SPILL OR LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Multipurpose (ABC) Dry Chemical should be stored in original container or in sealed extinguishers.
Other Precautions: None
Steps to be Taken in Case Material is Released or Spilled: Sweep up. Store in covered containers. Do not reuse.

Section 8 – SPECIAL PROTECTION INFORMATION

Respiratory Protection: Dust respirator approved by NIOSH/MSHA schedule TC-ZIC
Ventilation: NA
Local Exhaust: NA
Mechanical General: NA
Special: NA Other: NA
Protective Gloves: Sensitive individuals should wear gloves
Eye Protection: Safety glasses are recommended
Other Protective Clothing or Equipment: NA
Work/Hygienic Practices: Avoid breathing of dust. Wash off with soap and water.

The information herein is given in good faith but no warranty, expressed or implied, is made.

MATERIAL SAFETY DATA SHEET
S O S PRODUCTS COMPANY INC
P. O. Box 47
East Greenville, Pa. 18041
Phone (215-679)-6262 (215)-679-6263

SECTION I - GENERAL INFORMATION

Product Code: WG8 / WGP Revision Date: 08/06/07
Identification: WAX GASKET

SECTION II - HAZARDOUS INGREDIENTS

This product is not classified as hazardous in accordance with OSHA 1910.1200

Carcinogenicity: This product is NOT considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: < 650o F Specific Gravity: .85
Vapor Pressure: 0.01 Melting Point: 140o-170o F.
Vapor Density: N/A Evaporation Rate: N/A
Solubility in Water: NEGLIGIBLE
Odor and Appearance: AMBER WAXY SOLID WITH TYPICAL PETROLEUM WAX ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: 500o F. COC LEL: N/A
Flammable Limits: NOT DETERMINED UEL: N/A
Extinguishing Media: DRY CHEMICAL, FOAM, FIRE EXTINGUISHER
Special Fire Fighting Procedures:
USE WATER SPRAY, DRY CHEMICAL FOAM, OR CARBON DIOXIDE. WATER OR FOAM MAY CAUSE FROTHING. WATER MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. USE PROTECTIVE CLOTHING WHEN ENTERING CONFINED AREAS WITH WAX FIRES.

Unusual Fire and Explosion Hazards:
WHEN HEATED ABOVE FLASH POINT, FLAMMABLE VAPORS COULD BE RELEASED WHICH COULD BURN IN CONFINED AREAS.

SECTION V - REACTIVITY DATA

This product is STABLE.

Conditions to avoid: HIGH HEAT, TEMPERATURES OVER 160 DEG F.

Incompatibility: STRONG OXIDIZING AGENTS

Hazardous Decomposition: BY OPEN FLAME: CARBON DIOXIDE & CARBON MONOXIDE

Hazardous Polymerization WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

Routes of Entry: Inhalation? NO
Skin? YES - SECONDARY
Ingestion? YES - SECONDARY

Health Hazards (Acute and Chronic): NONE KNOWN

Carcinogenicity: NTP? NO
IARC Monographs? NO
OSHA Regulated? NO

Signs and Symptoms of Exposure: NONE

Medical Conditions Generally Aggravated by Exposure: NONE KNOWN

Emergency and First Aid Procedures:
SKIN: WASH WITH SOAP & WATER THOROUGHLY.
EYES: FLUSH 15 MINUTES WITH WATER.
INGESTION: MAY CAUSE IRRITATION OF DIGESTIVE TRACT. IF LARGE QUANTITY, CALL PHYSICIAN.

SECTION VII - HANDLING PRECAUTIONS

Steps to be Taken if Material is Released or Spilled:
REPLACE INTO CONTAINER AND PACKAGE APPROPRIATELY FOR DISPOSAL. FOR MOLTEN MATERIAL, ABSORB WITH SAND OR INERT ABSORBENT AND NOTIFY STATE AND LOCAL AGENCIES.

Waste Disposal Method: WAX- COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Precautions to be Taken in Handling and Storage:
STORE IN A COOL, DRY LOCATION. TO PREVENT MELTING OR DEFORMING DO NOT STORE OVER 110o F.

Other Precautions: NONE

SECTION VIII - CONTROL MEASURES

Respiratory Protection: NONE REQUIRED FOR NORMAL USE.
Ventilation Required: ADEQUATE VENTILATION
Protective Gloves: NONE REQUIRED FOR NORMAL USE.
Eye Protection: WEAR SAFETY GLASSES
Other Protective Equipment: NONE
Work/Hygienic Practices: USE GOOD PERSONAL HYGIENE PRACTICES.

The above information pertains to the product as it is currently formulated and is based upon the information available at this time. Additions of reducers or other additives to this product may substantially alter the composition and subsequent hazards of the product. Since conditions of use are outside of our control, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET
S O S PRODUCTS COMPANY INC
P. O. Box 47
East Greenville, Pa. 18041
Phone (215-679)-6262 (215)-679-6263

SECTION I - GENERAL INFORMATION

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SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: < 650o F Specific Gravity: .85
Vapor Pressure: 0.01 Melting Point: 140o-170o F.
Vapor Density: N/A Evaporation Rate: N/A
Solubility in Water: NEGLIGIBLE
Odor and Appearance: AMBER WAXY SOLID WITH TYPICAL PETROLEUM WAX ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: 500o F. COC LEL: N/A
Flammable Limits: NOT DETERMINED UEL: N/A
Extinguishing Media: DRY CHEMICAL, FOAM, FIRE EXTINGUISHER
Special Fire Fighting Procedures:
USE WATER SPRAY, DRY CHEMICAL FOAM, OR CARBON DIOXIDE. WATER OR FOAM MAY CAUSE FROTHING. WATER MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. USE PROTECTIVE CLOTHING WHEN ENTERING CONFINED AREAS WITH WAX FIRES.

Unusual Fire and Explosion Hazards:
WHEN HEATED ABOVE FLASH POINT, FLAMMABLE VAPORS COULD BE RELEASED WHICH COULD BURN IN CONFINED AREAS.

SECTION V - REACTIVITY DATA

This product is STABLE.

Conditions to avoid: HIGH HEAT, TEMPERATURES OVER 160 DEG F.

Incompatibility: STRONG OXIDIZING AGENTS

Hazardous Decomposition: BY OPEN FLAME: CARBON DIOXIDE & CARBON MONOXIDE

Hazardous Polymerization WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

Routes of Entry: Inhalation? NO
Skin? YES - SECONDARY
Ingestion? YES - SECONDARY

Health Hazards (Acute and Chronic): NONE KNOWN

Carcinogenicity: NTP? NO
IARC Monographs? NO
OSHA Regulated? NO

Signs and Symptoms of Exposure: NONE

Medical Conditions Generally Aggravated by Exposure: NONE KNOWN

Emergency and First Aid Procedures:
SKIN: WASH WITH SOAP & WATER THOROUGHLY.
EYES: FLUSH 15 MINUTES WITH WATER.
INGESTION: MAY CAUSE IRRITATION OF DIGESTIVE TRACT. IF LARGE QUANTITY, CALL PHYSICIAN.

SECTION VII - HANDLING PRECAUTIONS

Steps to be Taken if Material is Released or Spilled:
REPLACE INTO CONTAINER AND PACKAGE APPROPRIATELY FOR DISPOSAL. FOR MOLTEN MATERIAL, ABSORB WITH SAND OR INERT ABSORBENT AND NOTIFY STATE AND LOCAL AGENCIES.

Waste Disposal Method: WAX- COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Precautions to be Taken in Handling and Storage:
STORE IN A COOL, DRY LOCATION. TO PREVENT MELTING OR DEFORMING DO NOT STORE OVER 110o F.

Other Precautions: NONE

SECTION VIII - CONTROL MEASURES

Respiratory Protection: NONE REQUIRED FOR NORMAL USE.
Ventilation Required: ADEQUATE VENTILATION
Protective Gloves: NONE REQUIRED FOR NORMAL USE.
Eye Protection: WEAR SAFETY GLASSES
Other Protective Equipment: NONE
Work/Hygienic Practices: USE GOOD PERSONAL HYGIENE PRACTICES.

The above information pertains to the product as it is currently formulated and is based upon the information available at this time. Additions of reducers or other additives to this product may substantially alter the composition and subsequent hazards of the product. Since conditions of use are outside of our control, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

MSDS - Material Safety Data Sheet

Product Name: C-12 CPVC Cement

MSDS No.: 018750

Part Numbers Covered:

018750-24
018752-24
018760-24
018762-24
018770-12
018772-12
018780-12
018782-12
018790

1. Basic Information:

Manufacturer: WILLIAM H. HARVEY COMPANY

Address: 4334 SOUTH 67TH STREET

City, ST Zip: OMAHA, NE 68117-1019

Emergency Contact: CHEMTREC

Emergency Telephone Number: (800)424-9300

Contact: Information Telephone Number

Information Telephone Number: (800)228-9681

Last Update: 04/21/2006 **Expiration Date:**

Chemical State: [X] Liquid [ ] Gas [ ] Solid

Chemical Type: [ ] Pure [X] Mixture

2. Ingredients:

[ ] **Trade Secret**

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SUB Z	SARA 313	OSHA PEL	ACGIH TLV	Other Limits
68648-82-8	CPVC RESIN	10 - 20						NI	10 MG/M3	NI
108-94-1	CYCLOHEXANONE	5 - 15						25 PPM	25 PPM	NI
112945-52-5	FUMED SILICA	1 - 5						5 mg/m3	3 mg/m3	NI
78-93-3	METHYL ETHYL KETONE	20 - 30						200 PPM	200 PPM	NI
109-99-9	TETRAHYDROFURAN	40 - 48						200 PPM	50 PPM	NI

3. Hazardous Identification:

Hazard Category:

[X] Acute [X] Chronic [X] Fire [ ] Pressure [ ] Reactive

Hazardous Identification Information:

HAZARDS OVERVIEW:

Clear orange colored, moderately viscous liquid with a distinct and penetrating odor. Extremely flammable liquid and vapor. Vapors may cause flash fire. May cause eye and skin irritation. Inhalation of vaors or mists may cause respiratory irritation and central nervous system effects. Ingestion may cause irritation, nausea, vomiting, diarrhea and kidney and liver disorders. May be fatal if swallowed. Aspiration hazard. Symptoms may be delayed.

MSDS - Material Safety Data Sheet

Product Name: C-12 CPVC Cement

MSDS No.: 018750

4. First Aid Measures:

Route(s) of Entry:

EYES: Liquid causes severe irritation. Vapors cause slight to moderate irritation.

SKIN: Liquid or vapors may cause severe irritation.

INHALATION: May cause nose and throat irritation, headache, nausea, vomiting, drowsiness and incoordination.

INGESTION: Swallowing may cause irritation, nausea, vomiting, diarrhea and kidney and liver disorders. May be fatal if swallowed.

TARGET ORGANS: Eyes, Skin, Lungs, Kidney, Liver, Central Nervous System.

Health Hazards (Acute and Chronic):

ACUTE:
Severe skin irritant. Fast skin penetrant. Not expected to be a sensitizer. Eye irritant. Inhalation hazard. Overexposure may cause coughing, shortness of breath, dizziness, vomiting, central nervous system depression, intoxication, and collapse. Ingestion hazard. May produce symptoms of nervous system depression including headache, dizziness, nausea, loss of sense of balance, drowsiness, and visual disturbances.

CHRONIC:
Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact may cause defatting and dermatitis. May cause liver and kidney damage. May cause reproductive and fetal effects May cause lung damage. Narcotic in high concentrations.

Signs and Symptoms:

See HEALTH HAZARDS above.

Medical Conditions Generally Aggravated by Exposure:

AGGRAVATION OF EXISTING CONDITIONS:
Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.

Emergency and First Aid Procedures:

FOR EMERGENCY FIRST AID HELP CALL 1-303-623-5716 COLLECT.

SKIN CONTACT:
Immediately wash skin with soap and water while removing contaminated clothing and shoes. Remove dried cement with HARVEY'S POWER SCRUB HAND CLEANER or baby oil. Launder clothing before reuse. Seek medical attention if irritation persists.

EYES:
Liquid: Immediately flush with plenty of water for 5 minutes. Remove contacts if present and continue flushing with water while holding eyelids open with thumb and index finger for 15 minutes. Seek medical attention if irritation develops or persists.
Vapors: If vapors cause irritation, move to fresh air and flush eyes as above. Seek medical attention if irritation develops or persists.

INHALATION:
Move to fresh air. Give oxygen if breathing is difficult. Give artificial respiration if required. Call a physician or poison control center (1-303-623-576 collect) immediately.

INGESTION:
DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center (1-303-623-5716 Collect), or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

Other Health Warnings:

NI

MSDS - Material Safety Data Sheet

Product Name: C-12 CPVC Cement

MSDS No.: 018750

5. Fire Fighting Measures:

Flash Point: 0 - 6 ºF **Lower Explosive Limit:** 1.1 %by vol. **Upper Explosive Limit:** 11.8 %by vol

F.P. Method: TCC

Fire Extinguishing Media: Use dry chemical, CO2, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.

Special Fire Fighting Procedures:

Firefighters should wear positive pressure self contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

Unusual Fire and Explosion:

Extremely flammable liquid. Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ingition source and flash back. This product contains Tetrahydrofuran that may form explosive organic peroxides when exposed to air or light or with age. Combustion will produce toxic and irritating vapors including carbon monoxide and carbon dioxide.

6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Remove all sources of ignition and ventilate area. Stop leak if it can be done without risk. Prevent liquid from entering watercourses, natural waterways, drainage collection areas or sewers.

Personnel cleaning up the spill should wear appropriate Ppersonal Protective Equipment, including respirators if vapor concentrations are high. Soak up spill with an inert absorbent such as sand, earth or other non-combusting material. Put spent absorbent material in covered, labeled metal containers. See Section XIII for disposal information.

Report releases to proper authorities as required.

7. Handling and Storage:

Precautions to be Taken:

HANDLING:
Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in use or storage areas. Keep containers closed when not in use.

STORAGE:
Store in a cool, dry, well ventilated area away from incompatable materials. Keep containers closed when not in use.

Other Precautions:

"Empty" containers can retain product residue and can be hazardous. Follow all MSDS precations in handling empty containers. Do not cut or weld on or near empty or full containers.

Prevent prolonged or repeated breathing of vapors released during application process. Reports have associated repeated and prolonged overexposure to solvents with permanent brain damage and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

GENERAL MECHANICAL: Exhaust ventilation capable of maintaining emissions at the point of use below OSHA PEL.

LOCAL EXHAUST: Open doors & windows. If used in an enclosed area, use exhaust fans.

Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of vapors are not exposed to electrical fixtures or hot surfaces.

Personal Protective Equipment:

MSDS - Material Safety Data Sheet

Product Name: C-12 CPVC Cement

MSDS No.: 018750

RESPIRATORY PROTECTION:
For operations where the exposure limits may be exceeded, a NIOSH approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on the contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice.
For firefighting, use self-contained breathing apparatus.

EYE PROTECTION:
Safety glasses with side shields or safety goggles.

SKIN PROTECTION:
Rubber gloves are adequate for normal use of the product. For long exposures to the substance, chemical resistant gloves may be required to avoid prolonged exposure.

OTHER PROTECTION:
An eye wash and safety shower should be available in the work area.

9. Physical and Chemical Properties:

Boiling Point: 155 ºF

Melting Point: NA

Evaporation Rate (Butyl Acetate = 1): 3.7 - 8.0

Vapor Pressure (mm Hg.): ~ 157

Specific Gravity (H20 = 1): 0.95000

Vapor Density (AIR = 1): ~ 2.5

Solubility In Water: Negligible

Appearance and Odor: Clear orange colored, moderately viscous liquid with Ether-like odor

Other Information: Specific Gravity = ~.95

10. Stability and Reactivity:

Stability:

Stable.

Incompatibility (Materials to Avoid):

Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic and rubber compounds.

Decomposition/By Products:

Burning can produce carbon monoxide, carbon dioxide, water, cyanide, hydrogen cyanide, and vapors of chemicals listed in Section II.

Hazardous Polymerization:

Will not occur.

11. Toxicological Information:

MSDS - Material Safety Data Sheet

Product Name: C-12 CPVC Cement

MSDS No.: 018750

THIS PRODUCT IS TOXIC BY INGESTION. MAY CAUSE NARCOSIS, GASTRIC INJURY OR DEATH.

CHRONIC TOXICITY: Prolonged or reapeated overexposure can cause dermatitis and damage to the kidney, liver, lungs and central nervous system.

TOXICITY DATA:

Cyclohexanone:
Oral rat LD50: 1,620 mg/kg.
Inhalation rat LC50: 8,000 ppm/4 hours
Skin rabbit: 1 mL/kg

Methyl Ethyl Ketone:
Oral rat LD50: 2,737 mg/kg.
Inhalation rat LC50: 23,500 mg/m3/8 hours
Skin rabbit: 6480 mg/kg

Tetrahydrofuran:
Oral rat LD50: 1,650 mg/kg
Inhalation rat LC50: 21,000 ppm/ 3 hours

CPVC Resin:
No toxicity studies have been conducted on this product.
As with all chemicals for which test data are limited or do not exist, caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

SENSITIZATION:
None of the components are known to cause sensitization.

CARCINOGENICITY:
None of the components are listed as a carcinogen or suspect cacinogen by NTP, IARC or OSHA. The NTP has reported that exposure of mice and rats to Tetrahydrofuran vapor levels up to 1800 ppm 6 hr/day, 5 days/week for their lifetime caused an increased incidence of kidney tumors in male rats and liver tumors in female mice. The significance of these findings for human health is unclear at this time, and may be related to "species specific" effects. Elevated incidences of tumors in humans have not been reported for Tetrahydrofuran. ACGIH has classified Cyclohexanone and Tetrahydrofuran as "A3", Confirmed Animal Carcinogen with Unknown Relevance to Humans.

MUTAGENICITY:
Cyclohexanone has been positive in bacterial and mammalian assays. Methyl Ethyl Ketone and Tetrahydrofuran are generally thought not to be mutagenic.

REPRODUCTIVE TOXICITY:
Methyl Ethyl Ketone and Cyclohexanone have been shown to cause embryofetal toxicity and birth defects in laboratory animals. Tetrahydrofuran have been found to cause adverse developmental effects only when exposure levels cause othe toxic effects to the mother.

12. Ecological Information:

THIS PRODUCT IS NOT EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS.

Cyclohexanone: 96 hour LC50 values for fish is over 100mg/L.
Methyl Ethyl Ketone: 96 hour LC50 values for fish is over 100mg/L.
Tetrahydrofuran: 96 hour LC50 for fathead minnow: 2160 mg/L.

VOC Information:
This product emits VOC's (Volatile Organic Compounds) in its use. Make sure that use of this product complies with local VOC emission regulations, where they exist.

VOC Content (as manufactured): 776 grams/liter

13. Disposal Considerations:

MSDS - Material Safety Data Sheet

Product Name: C-12 CPVC Cement

MSDS No.: 018750

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA Hazardous Waste Number: U057, U159, U213
EPA Hazardous Waste ID Number: D001, D035, F003, F005
EPA Hazardous Waste Class: Ignitable Waste. Toxic Waste (Methyl Ethyl Ketone content)

14. Transport Information:

DOT (DEPARTMENT OF TRANSPORTATION) U.S.:

Proper Shipping Name: Less than 1 Liter = Consumer Commodity
1 Liter or Greater = Adhesives, Containing Flammable Liquid

Hazard Class/Packing Group: Less than 1 Liter = ORM-D
1 Liter or Greater = 3, PGII

UN/NA Number: Less than 1 Liter = None
1 Liter or Greater = UN1133

Hazard Labels: Less than 1 Liter = None
1 Liter or Greater = Flammable Liquid

INTERNATIONAL MARITIME DANGEROUS GOODS:

Proper Shipping Name: Flammable Liquid, N.O.S. Limited Quantity

Hazard Class/Packing Group: 3, II

UN Number: UN1993

Label: None (Limited Quantities are excepted from labeling)

2004 NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

15. Regulatory Information:

MSDS - Material Safety Data Sheet

Product Name: C-12 CPVC Cement

MSDS No.: 018750

SARA, Section 311 / 312, Hazard Category:
Acute Health
Chronic Health
Flammable

SARA, Section 302, Extremely Hazardous Substances:
This product does not contain chemical regulated under SARA Section 302.

SARA, Section 313, Toxic Chemical:
This product does not contains any chemical subject to SARA Title III, Section 313 reporting requirements:

CERCLA 103, Reportable Quantity:
Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center; The RQ for the product, based on the RQ for Methyl Ethyl Ketone (100% maximum) of 5,000 lbs. is 5,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITON 65:
This product contains trace amounts of chemicals known to the State of California to cause cancer. Under normal use conditions, exposure to these chemicals at levels above the State of California "No Significant Risk Level" (NSRL) are unlikely.
The Willliam H. Harvey Company strongly recommends and encourages the proper selection and use of Personal Protective Equipment and engineered ventilation noted in Section VIII of this MSDS.

TSCA INVENTORY:
All of the components of this product are listed on the TSCA inventory.

CANADIAN WHIMS CLASSIFICATION:
Class B, Division 2; Class D, Division 2, Subdivision A.
This product has been classified in accordance with the hazard criteria of the Conrtrolled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. Other Information:

KEEP AWAY FROM HEAT SPARK AND FLAMES AT ALL TIMES.

STORE IN A COOL DRY PLACE.

ABBREVIATIONS:

~ = Approximately
< = Less Than
> = Greater Than
ACGIH = American Conference of Governmental Industrial Hygienists
AIHA = American Industrial Hygiene Association
C = Degrees Celcius
CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act
Deg = Degrees
EPA = Environmental Protection Agency
F = Degrees Farenheit
HMIS = Hazardous Materials Information System
IARC = International Agency for Research on Cancer
NA = Not Applicable
NDA = No Data Available
NE = Not Established
NFPA = National Fire Protection Association
NI = Not Indicated
NIOSH = National Institure of Occupational Safety and Health
NTP= National Toxicology Program
OSHA = Occupational Safety and Health Administration
SARA = Superfund Amendment and Reauthorization Act

DISCLAIMER: The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, the William H. Harvey Company cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its uses.

80-067

PIPE JOINT COMPOUND

HMIS RATING	
Health	2
Flammability	3
Reactivity	0

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	2
Flammability	3
Reactivity	0
NFPA 30B LEVEL	
N/A	

KIMBALL-MIDWEST
P.O. BOX 2470
COLUMBUS, OH 43216-2470
CORPORATE TELEPHONE: 614-219-6100
EMERGENCY TELEPHONE: 800-424-9300

1. PRODUCT IDENTIFICATION

PART NUMBER 80-067
PRODUCT NAME ..... LOCTITE PIPE JOINT COMPOUND, 30556
CHEMICAL FAMILY ..... N/A
DOT SHIPPING ..... Consumer Commodity ORM-D

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
Clay (1332-58-7)	15mg/m^3	2mg/m^3	None	30-60
Vegetable Oil (68187-84-8)	None	None	None	10-30
Rosin (8050-09-7)	None	None	None	10-30
Isopropyl alcohol (67-63-0)	200ppm	200ppm	400ppm	10-30
Talc (14807-96-6)	20mppcf	2mg/m^3	3ppm	1-5
Carbon, black (133-86-4)	3.5mg/m^3	3.5mg/m^3	None	0.1-1
Silica, quartz (14808-60-7)	0.1mg/m^3	.05mg/m^3	None	0.1-1

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement. **Ceiling

3. PHYSICAL DATA

BOILING POINT (RANGE) ..... >149°C to (300°F)
VAPOR PRESSURE PSIG @ 68°F 33mmHg
VAPOR DENSITY (AIR = 1) ..... Heavier than air
SOLUBILITY IN WATER ..... Partial
SPECIFIC GRAVITY (H2O = 1) 1.37
MELTING/FREEZING POINT ..... N/A
EVAPORATION RATE (61%=1) ..... Not available
VOC content (by weight) 15.2%
APPEARANCE AND ODOR ..... Dark Brown Viscous liquid/ Alcoholic Odor

4. FIRE AND EXPLOSION DATA

FLASH POINT ..... 76°F TCC
UPPER EXPLOSIVE LIMIT (%) 12.7
LOWER EXPLOSIVE LIMIT (%) 2.3
EXTINGUISHING MEDIA ..... Foam, dry chemical, CO_2
SPECIAL FIREFIGHTING PROCEDURES ..... As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/ NIOSH approved or equivalent) and full protective gear.
HAZARDOUS COMBUSTION PRODUCTS ..... Alehydes. Oxides of carbon. Carboxylic acids. Irritating organic carbon.

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY ..... Skin absorption, Inhalation, Eye contact, Ingestion
HEALTH HAZARDS (ACUTE AND CHRONIC) ..... May cause allergic skin reaction, may cause eye, skin and respiratory tract irritation. May be harmful if swallowed.
EYE CONTACT ..... May cause irritation. Redness. Swelling. Stinging.
INGESTION ..... Not expected to be harmful by ingestion.
INHALATION ..... May cause to nose and throat.
SKIN CONTACT ..... May cause skin irritation. May cause allergic skin reaction. Burning Sensation. Redness
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Eye, skin and respiratory disorders

5. HEALTH EFFECTS DATA CON'T.

FIRST AID PROCEDURES

EYE CONTACT ..... Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open at all times. Obtain medical attention.
SKIN CONTACT ..... Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
INGESTION ..... Do not induce vomiting. Keep individual calm. Obtain medical attention.
INHALATION ..... Remove to fresh air. If symptoms develop and persist, get medical attention.

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines) Silica, quartz, is a known carcinogen.
CALIFORNIA PROP 65 This product contains a chemical known to the State of California to cause cancer.

6. REACTIVITY

STABILITY ..... Stable under normal conditions.
INCOMPATIBILITIES ..... Oxidizing and spontaneously flammable products.
HAZARDOUS DECOMPOSITION PRODUCTS ..... Oxides of carbon. Aldehydes. Carboxylic acid.
HAZARDOUS POLYMERIZATION ..... Will not occur under normal conditions.
HAZARDOUS POLYMERIZATION CONDITIONS ..... None known.

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT REQUIREMENTS ..... Tightly sealed goggles with side shields, impermeable gloves and protective clothing as necessary to prevent skin contact. Local exhaust ventilation may be necessary to control air contaminants to within TLVs during the use of this product.
WASH REQUIREMENTS ..... Wash with soap and water.
SPILL OR LEAK PROCEDURES Remove all sources of ignition. Ensure adequate ventilation. Scrape up spilled material and place in sealed container for disposal.
WASTE DISPOSAL METHODS Dispose of in accordance with local, state, and federal regulations.
HANDLING & STORAGE ..... Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only adequate ventilation. Store below 100°F.
OTHER PRECAUTIONS ..... Use NIOSH approved respirator with an organic vapor cartridge; avoid prolonged breathing of vapors; protection provided by air purifying respirators is limited.

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use. Use positive pressure air supplied respirator if there is potential for uncontrolled release, if exposure levels are unknown, or in any circumstance where air purifying respirators may not provide adequate protection.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

KIMBALL MIDWEST
Specializing in Materials Management since 1923

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Material Safety Data Sheet for Armco Products

Manufacturing Facility, Company, or Subsidiary: Construction Products Division
Address: 1001 Grove Street, Middletown, Ohio 45043
Phone (during normal business hours): Division: 513/425-2178 Corporate: 513/ 425-2964
Date of Preparation: October 1, 1985 SSF
Product Name or Number: Armco PVC Pipe Cement

SECTION I — COMPONENT DATA:

Chemical Components	C.A.S. Number	% Wt.
Tetrahydrofuran	109-99-9	59
Methyl Ethyl Ketone (MEK)	78-93-3	22
Cyclohexanone	108-94-1	5
Polyvinyl Chloride	9002-86-2	14

SECTION II — PHYSICAL DATA:

Boiling Point (°F): 64°F
Vapor Density (Air = 1): 1
Specific Gravity (H_2O = 1): 0.910
Evaporative Rate (Ethyl Ether = 1): Unknown
Appearance and Odor: White liquid, MEK-like odor
Vapor Pressure (mmHg @ 20°C): 143 mm
Solubility in Water: 80%
Percent Volatile By Volume: 86%
pH Information: N/A

SECTION III — FIRE & EXPLOSION HAZARD DATA:

Flash Point (°F): 60°F
Flammability Limits (%/Vol): LEL: 2.0%
Auto-Ignition Temperature (°F): Unknown
Method Used: C.C.
UEL: 11.8%
Extinguishing Media: Chemical foam, CO_2, dry chemical

Special Fire-Fighting Instructions: Wear self-contained breathing apparatus when fighting fire in confined spaces.

Unusual Fire and Explosion Hazards: Vapor may travel along ground to an ignition source.

SECTION IV — REACTIVITY DATA:

Stability (conditions to avoid): Stable. Avoid sources of ignition.

Incompatibility (materials to avoid): Strong oxidizers, such as chlorine, permanganate and dichromate.

Hazardous Decomposition Products: CO, CO_2, HCl, unknown hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION V — HEALTH HAZARD DATA:

Primary Route(s) of Entry: Inhalation, skin contact, eye contact.

Effects of Exposure: Note: To Armco's knowledge, this mixture has not been tested as a whole to determine whether the mixture is a health hazard. The information provided as follows under **Inhalation, Skin Contact, Eye Contact, and Ingestion** represents the health hazards of the individual chemical components. The following effects of exposure would be expected to be possibly caused by the actual mixture: dizziness, headaches, and nausea from vapor; skin and eye irritation and redness from the liquid.

Inhalation:

MEK vapor may cause irritation of the eyes, nose, throat and mucous membranes. May cause headaches, dizziness, nausea, numbness in fingers, arms, and legs; vomiting; and unconsciousness. Long-term exposure symptoms may include certain nervous disorders characterized by weakness, fatigue, heaviness in chest and numbness of hands and feet. These symptoms may develop after one year of exposure to vapor concentrations of 50-200 ppm.

Tetrahydrofuran vapor may cause irritation of the eyes and upper respiratory tract; headache; nausea; dizziness; and other signs of central nervous system depression.

Cyclohexanone vapor may cause irritation of eyes, nose, and throat; drowsiness; and narcosis at high concentration. These symptoms become noticeable at concentrations above 50 ppm.

No effects reported from polyvinyl chloride polymer.

Skin Contact:

Contact with MEK liquid or MEK vapors at concentrations of 300-600 ppm may cause dryness, dermatitis, and severe irritation. Liquid is readily absorbed and may cause numbing of fingers and arms. Contact with

tetrahydrofuran liquid may cause irritation and dryness. Contact with cyclohexanone liquid may cause irritation and dermatitis. No effects reported from polyvinyl chloride polymer.

Eye Contact:
MEK vapor may cause irritation at 200 ppm. MEK liquid may cause redness and irritation. Tetrahydrofuran liquid may cause irritation. Cyclohexanone liquid may cause irritation and corneal injury. No effects reported from polyvinyl chloride polymer.

Ingestion:
MEK liquid may cause irritation of the mouth, throat, and stomach, the severity of which will be dependent upon the amount swallowed. Symptoms of poisoning may include nausea, vomiting, stomach pain and diarrhea. Death can occur from ingestion of as little as 1 ounce.

No effects reported from tetrahydrofuran. For cyclohexanone, the minimum lethal dose for rabbits by oral administration was between 1.6 and 1.9 gm/kg of body weight. No effects reported from polyvinyl chloride polymer.

Exposure Limits:

Chemical Components	OSHA PEL (mg/m^3)	ACGIH TLV (mg/m^3)	NTP Listed	IARC Listed
Tetrahydrofuran	590	590	No	No
Methyl Ethyl Ketone	590	590	No	No
Cyclohexanone	200	100	No	No
Polyvinyl Chloride	None	None	No	No

SECTION VI — EMERGENCY & FIRST-AID PROCEDURES:

Inhalation: In case of overexposure, immediately move person from contaminated area to fresh air. Give artificial respiration if breathing has stopped, or oxygen, if necessary. Seek medical attention, if necessary.

Skin: If irritation develops, remove contaminated clothing immediately, and wash contaminated skin with soap or mild detergent and water for five minutes. If irritation persists, seek medical attention.

Eyes: In case of contact, immediately wash eyes with large amounts of water for fifteen minutes, occasionally lifting the lower and upper lids. Seek medical attention, if necessary.

Ingestion: Seek medical attention, if necessary.

SECTION VII — SPECIAL HANDLING INFORMATION:

Ventilation: Ventilation, as described in the ***Industrial Ventilation Manual*** produced by the American Conference of Governmental Industrial Hygienists, shall be provided in areas where exposures are above the permissible exposure limits or threshold limit values specified by OSHA or other local, state, and federal regulations.

Respiratory Protection: A properly fitted, NIOSH-approved respirator with organic vapor chemical cartridge should be worn whenever airborne concentrations exceed the threshold limit value (TLV) or other recommended limits, in accordance with the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Protective Clothing: Impervious protective clothing, such as rubber gloves, apron, and boots, should be worn if direct contact is likely.

Eye Protection: Chemical-type goggles should be worn whenever splashing, spraying, or other eye contact is likely.

SECTION VIII — SPILL, LEAK & DISPOSAL PROCEDURES:

Action to Take for Spills (use appropriate safety equipment): Eliminate ignition sources, flames, pilot lights, and electrical sparks. Provide ventilation. Prevent liquid from entering sewers, waterways, or low areas. Contain spilled liquid with vermiculite, sand, earth, or any other absorbent. Scoop up and store in a suitable container.

Waste Disposal Method: Dispose in accordance with the Resource Conservation and Recovery Act (RCRA), state and local regulations.

SECTION IX — SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION:

Precautions to be Taken in Handling and Storage: All handling equipment should be electrically grounded.
DOT Information:
Hazardous Material Proper Shipping Name: Flammable Liquid, N.O.S.
Hazard Class: Flammable Liquid
Identification Number: UN 1193
EPA Hazardous Waste Number: N/A
Additional Information: None

While the information and recommendations set forth on this data sheet are believed to be accurate as of the present date, Armco makes no warranty with respect thereto and disclaims all liability from reliance thereon.

Material Safety Data Sheet for Armco Products

Manufacturing Facility, Company, or Subsidiary: Construction Products Division
Address: 1001 Grove Street, Middletown, Ohio 45043
Phone (during normal business hours): Division: 513/425-2178 Corporate: 513/ 425-2964
Date of Preparation: October 1, 1985 SSF
Product Name or Number: Armco PVC Pipe Cement

SECTION I — COMPONENT DATA:

Chemical Components	C.A.S. Number	% Wt.
Tetrahydrofuran	109-99-9	59
Methyl Ethyl Ketone (MEK)	78-93-3	22
Cyclohexanone	108-94-1	5
Polyvinyl Chloride	9002-86-2	14

SECTION II — PHYSICAL DATA:

Boiling Point (°F): 64°F
Vapor Density (Air = 1): 1
Specific Gravity (H_2O = 1): 0.910
Evaporative Rate (Ethyl Ether = 1): Unknown
Appearance and Odor: White liquid, MEK-like odor
Vapor Pressure (mmHg @ 20°C): 143 mm
Solubility in Water: 80%
Percent Volatile By Volume: 86%
pH Information: N/A

SECTION III — FIRE & EXPLOSION HAZARD DATA:

Flash Point (°F): 60°F
Flammability Limits (%/Vol): LEL: 2.0%
Auto-Ignition Temperature (°F): Unknown
Method Used: C.C.
UEL: 11.8%
Extinguishing Media: Chemical foam, CO_2, dry chemical

Special Fire-Fighting Instructions: Wear self-contained breathing apparatus when fighting fire in confined spaces.

Unusual Fire and Explosion Hazards: Vapor may travel along ground to an ignition source.

SECTION IV — REACTIVITY DATA:

Stability (conditions to avoid): Stable. Avoid sources of ignition.

Incompatibility (materials to avoid): Strong oxidizers, such as chlorine, permanganate and dichromate.

Hazardous Decomposition Products: CO, CO_2, HCl, unknown hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION V — HEALTH HAZARD DATA:

Primary Route(s) of Entry: Inhalation, skin contact, eye contact.

Effects of Exposure: Note: To Armco's knowledge, this mixture has not been tested as a whole to determine whether the mixture is a health hazard. The information provided as follows under **Inhalation, Skin Contact, Eye Contact, and Ingestion** represents the health hazards of the individual chemical components. The following effects of exposure would be expected to be possibly caused by the actual mixture: dizziness, headaches, and nausea from vapor; skin and eye irritation and redness from the liquid.

Inhalation:

MEK vapor may cause irritation of the eyes, nose, throat and mucous membranes. May cause headaches, dizziness, nausea, numbness in fingers, arms, and legs; vomiting; and unconsciousness. Long-term exposure symptoms may include certain nervous disorders characterized by weakness, fatigue, heaviness in chest and numbness of hands and feet. These symptoms may develop after one year of exposure to vapor concentrations of 50-200 ppm.

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No effects reported from polyvinyl chloride polymer.

Skin Contact:

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tetrahydrofuran liquid may cause irritation and dryness. Contact with cyclohexanone liquid may cause irritation and dermatitis. No effects reported from polyvinyl chloride polymer.

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MEK vapor may cause irritation at 200 ppm. MEK liquid may cause redness and irritation. Tetrahydrofuran liquid may cause irritation. Cyclohexanone liquid may cause irritation and corneal injury. No effects reported from polyvinyl chloride polymer.

Ingestion:
MEK liquid may cause irritation of the mouth, throat, and stomach, the severity of which will be dependent upon the amount swallowed. Symptoms of poisoning may include nausea, vomiting, stomach pain and diarrhea. Death can occur from ingestion of as little as 1 ounce.

No effects reported from tetrahydrofuran. For cyclohexanone, the minimum lethal dose for rabbits by oral administration was between 1.6 and 1.9 gm/kg of body weight. No effects reported from polyvinyl chloride polymer.

Exposure Limits:

Chemical Components	OSHA PEL (mg/m^3)	ACGIH TLV (mg/m^3)	NTP Listed	IARC Listed
Tetrahydrofuran	590	590	No	No
Methyl Ethyl Ketone	590	590	No	No
Cyclohexanone	200	100	No	No
Polyvinyl Chloride	None	None	No	No

SECTION VI — EMERGENCY & FIRST-AID PROCEDURES:

Inhalation: In case of overexposure, immediately move person from contaminated area to fresh air. Give artificial respiration if breathing has stopped, or oxygen, if necessary. Seek medical attention, if necessary.

Skin: If irritation develops, remove contaminated clothing immediately, and wash contaminated skin with soap or mild detergent and water for five minutes. If irritation persists, seek medical attention.

Eyes: In case of contact, immediately wash eyes with large amounts of water for fifteen minutes, occasionally lifting the lower and upper lids. Seek medical attention, if necessary.

Ingestion: Seek medical attention, if necessary.

SECTION VII — SPECIAL HANDLING INFORMATION:

Ventilation: Ventilation, as described in the ***Industrial Ventilation Manual*** produced by the American Conference of Governmental Industrial Hygienists, shall be provided in areas where exposures are above the permissible exposure limits or threshold limit values specified by OSHA or other local, state, and federal regulations.

Respiratory Protection: A properly fitted, NIOSH-approved respirator with organic vapor chemical cartridge should be worn whenever airborne concentrations exceed the threshold limit value (TLV) or other recommended limits, in accordance with the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Protective Clothing: Impervious protective clothing, such as rubber gloves, apron, and boots, should be worn if direct contact is likely.

Eye Protection: Chemical-type goggles should be worn whenever splashing, spraying, or other eye contact is likely.

SECTION VIII — SPILL, LEAK & DISPOSAL PROCEDURES:

Action to Take for Spills (use appropriate safety equipment): Eliminate ignition sources, flames, pilot lights, and electrical sparks. Provide ventilation. Prevent liquid from entering sewers, waterways, or low areas. Contain spilled liquid with vermiculite, sand, earth, or any other absorbent. Scoop up and store in a suitable container.

Waste Disposal Method: Dispose in accordance with the Resource Conservation and Recovery Act (RCRA), state and local regulations.

SECTION IX — SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION:

Precautions to be Taken in Handling and Storage: All handling equipment should be electrically grounded.
DOT Information:
Hazardous Material Proper Shipping Name: Flammable Liquid, N.O.S.
Hazard Class: Flammable Liquid
Identification Number: UN 1193
EPA Hazardous Waste Number: N/A
Additional Information: None

While the information and recommendations set forth on this data sheet are believed to be accurate as of the present date, Armco makes no warranty with respect thereto and disclaims all liability from reliance thereon.

HEAT PRUF GREASE

Revision Date: 2007/05/15

Section 1: PRODUCT INFORMATION

Chemical family: Mixture.

Product uses: Industrial material.

Supplier: Radiator Specialty Co., of Canada
1711 Aimco Blvd.
Mississauga, Ontario
L4W 1H7.

Emergency Phone Number: 303−623−5716

Manufacturer: Refer to supplier.

TDG classification: Not regulated.

WHMIS classification: Not controlled.

DSL status: Not available.

Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
	60.0−100.0	MINERAL OIL	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: Mineral Oil − TLV 5 mg/m3.

Section 3: PHYSICAL DATA

Physical state: Semi−solid.

Appearance & odor: Gel
Petroleum odour.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): <0.1

Vapour density (air=1): >1.0

Volatiles (%)

By volume: Not available.

Evaporation rate (butyl acetate = 1): <0.01

Boiling point (°C): Not available.

Freezing point (°C): 284

pH: Not available.

Specific gravity @ 20 °C: (water = 1).
0.99500

Solubility in water (%): Negligible.

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 4: FIRE & EXPLOSION DATA

Flammability: Not flammable.

Conditions of flammability: At temperatures at or above flash point.

Extinguishing media: Carbon dioxide, dry chemical, foam.
Water spray.

Special procedures: Positive pressure self−contained breathing apparatus required and full protection to prevent skin contact.

Auto−ignition temperature: Not available.

Flash point (°C), method: Cleveland Open Cup.
450

Lower flammability limit (% vol): Not applicable.

Upper flammability limit (% vol): Not applicable.

Explosion Data

Sensitivity to static discharge: Not available.

Sensitivity to mechanical impact: Not available.

Hazardous combustion products: Oxides of carbon (CO, CO2).
Unidentified organic compounds.

Explosive power: Not available.

Section 5: REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Conditions of instability: None known.

Hazardous polymerization: Will not occur.

Incompatible substances: Strong oxidizers.

Hazardous decomposition products: See hazardous combustion products.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Ingestion.
Skin and eye contact.

Effects of acute exposure

Eye contact: No adverse effects expected.

Skin contact: No adverse effects expected.

Inhalation: No adverse effects expected.

Ingestion: Aspiration of liquid into lungs may cause chemical pneumonitis which can be fatal.
Aspiration may result in pulmonary edema.

Effects of chronic exposure: None known.

LD50 of product, species & route: Not available.

LC50 of product, species & route: Not available.

Exposure limit of material: Not available for mixture, see section 2A.

Sensitization to product: Not available.

Carcinogenic effects: Not available.

Reproductive effects: Not available.

Teratogenicity: Not available.

Mutagenicity: Not available.

Synergistic materials: Not available.

Section 7: PREVENTATIVE MEASURES

Precautionary Measures

Gloves/Type:

Wear appropriate gloves.

Respiratory/Type:

Wear a NIOSH approved respirator if TLV is exceeded.

Eye/Type:

Safety glasses.
Do not wear contact lenses.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type: Wear adequate protective clothes.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Maintain adequate ventilation.

Leak/Spill: Contain the spill.
Absorb with inert material.
Wear appropriate protective equipment.
Place in a chemical waste container for disposal.

Waste disposal: Recycle waste where applicable.
Dispose in accordance with local, provincial/state, and federal regulations.

Handling procedures and equipment: Keep away from heat, sparks, and open flame.
Use adequate ventilation.
Wash thoroughly after using, particularly before eating or smoking.
Wear personal protective equipment appropriate to task.
Keep out of reach of children.
Launder contaminated clothing prior to reuse.

Storage requirements: Store away from all sources of ignition.
Store away from incompatible materials.
Keep containers tightly closed.

TDG classification: Not regulated.

Special shipping information: See transportation information.

Section 8: FIRST AID MEASURES

Skin contact: Wash thoroughly with soap and water.
Seek medical attention if irritation persists.

Eye contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

Inhalation: Remove victim to fresh air.
If breathing is difficult get medical attention.

Ingestion: Guard against aspiration of liquids into lungs.
Never give anything by mouth to an unconscious person.
Do not induce vomiting, seek immediate medical attention.

Additional information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 9: ADDITIONAL INFORMATION

General note: This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

This MSDS was generated by *Conform−Plus* Application Service. Visit us at www.netmsds.com.

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	PLASTI-WELD CLEAR CLEANER
Product Use:	Cleaner for cementing plastic pipe.
Formula:	See SECTION 2
Synonyms:	Cleaner
Firm Name & Mailing Address:	UNITED ELCHEM IND. c/o OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. http://www.elchem.com, http://www.oatey.com
Oatey Phone Number:	(216) 267-7100 or (800) 321-9532.
Emergency Phone Numbers:	For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared By:	Corporate Director - Safety and Environmental Compliance
Preparation Date:	August 18, 2005

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:	%wt/wt:	CAS NUMBER:	ACGIH TLV TWA:	OSHA PEL TWA:	OTHER:
Methyl Ethyl Ketone	60 - 100%	78-93-3	200 ppm 300 ppm STEL	200 ppm	None
Acetone	15 - 40%	67-64-1	500 ppm 750 ppm STEL	1000 ppm	None

OSHA Hazard Classification: Flammable, irritant, organ effects

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview:
Clear liquid with a sharp, penetrating odor. Extremely flammable liquid and vapor. Vapors may cause flash fire. May cause eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects. Swallowing may cause irritation, nausea, vomiting or diarrhea. Aspiration hazard. May be fatal if swallowed. Symptoms may be delayed.

SECTION 4 FIRST AID MEASURES

CALL 1-303-623-5716 COLLECT

Skin: Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with Oatey Plumber's Hand Cleaner or baby oil.

Eyes: If material gets into eyes or if fumes cause irritation, immediately flush eyes with plenty of water until chemical is removed. If irritation persists, get medical attention immediately.

Inhalation: If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

Ingestion: **DO NOT INDUCE VOMITING.** Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

SECTION 5 FIRE FIGHTING MEASURES

Flashpoint / Method:	29 Degrees F. (-2 Degrees C) / CCC
Flammability:	LEL = 1.8 % Volume, UEL = 11.5 % Volume
Extinguishing Media:	Use dry chemical, CO2, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.
Special Fire Fighting Procedure:	Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored
Unusual Fire and Explosion Hazards:	Extremely flammable liquid. Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back.
Hazardous Decomposition Products:	Combustion will produce toxic and irritating vapors including carbon monoxide and carbon dioxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:	Remove all sources of ignition and ventilate area. Stop leak if it can be done without risk. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with an inert absorbent such as sand, earth or other non-combusting material. Put absorbent material in covered, labeled metal containers. Prevent liquid from entering watercourses, sewers and natural waterways. Report releases to authorities as required. See Section 13 for disposal information.

SECTION 7 HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.
Storage:	Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.
Other:	"Empty" containers retain product residue and can be hazardous. Follow all MSDS precautions in handling empty containers. Do not cut or weld on or near empty or full containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation:	Open doors & windows. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.
Respiratory Protection:	For operations where the exposure limit may be exceeded, a NIOSH approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.
Skin Protection:	Rubber gloves are suitable for normal use of the product. For long exposures chemical resistant gloves may be required such as 4H(tm) or Silver Shield(tm) to avoid prolonged skin contact.
Eye Protection:	Safety glasses with side shields or safety goggles.

SECTION 8 (Continued)
Other: Eye wash and safety shower should be available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	133 Degrees F / 56 Degrees C
Melting Point:	Not Applicable
Vapor Pressure:	186 mmHg @ 20 Degrees C
Vapor Density:	(Air = 1) 2.0
Volatile Components:	100%
Solubility In Water:	Negligible
pH:	Not Applicable
Specific Gravity:	0.79 +/- 0.02 @ 20 Degrees C
Evaporation Rate:	(BUAC = 1) = 7.7
Appearance:	Colorless Liquid
Odor:	Sharp, penetrating
Will Dissolve In:	Methyl ethyl ketone
Material Is:	Liquid

SECTION 10 STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Avoid heat, sparks, flames and other sources of ignition.
Hazardous Decomposition Products:	Combustion will produce toxic and irritating vapors including carbon monoxide and carbon dioxide.
Incompatibility/ Materials To Avoid:	Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber.
Hazardous Polymerization:	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation:	Vapors or mists may cause mucous membrane and respiratory irritation, coughing, headache, dizziness, dullness, nausea, shortness of breath and vomiting. High concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause lung damage.
Skin:	May cause irritation with redness, itching and pain. Methyl ethyl ketone may be absorbed through the skin causing effects similar to those listed under inhalation.
Eye:	Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye damage.
Ingestion:	Swallowing may cause abdominal pain, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage.
Chronic Toxicity:	Prolonged or repeated overexposure cause dermatitis and damage to the lungs and central nervous system.
Toxicity Data:	Acetone: Oral rat LD50: 5,800 mg/kg Inhalation rat LC50: 50,100 mg/m3/8 hours Methyl Ethyl Ketone: Oral rat LD50: 2,737 mg/kg Inhalation rat LC50: 23,500 mg/m3/8 hours Skin rabbit LD50: 6,480 mg/kg
Sensitization:	None of the components are known to cause sensitization.

SECTION 11 (Continued)

Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.

Mutagenicity: Methyl ethyl ketone and acetone are generally thought not to be mutagenic.

Reproductive Toxicity: Methyl ethyl ketone has been shown to cause embryofetal toxicity and birth defects in laboratory animals. Acetone has been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother.

Medical Conditions Aggravated By Exposure: Persons with pre-existing skin or lung disorders may be at increased risk from exposure to this product.

SECTION 12 ECOLOGICAL INFORMATION

This product is not expected to be toxic to aquatic organisms.
Methyl Ethyl Ketone: 96 hour LC50 for fish is greater than 100 mg/L.
Acetone: 96 hour LC50 for fish is greater than 100 mg/L.

VOC Information: This product emits VOC's (volatile organic compounds) in its use. Make sure that use of this product complies with local VOC emission regulations, where they exist.

VOC Level: 600 g/l per SCAQMD Test Method 316A.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with current local, state and federal regulations.

RCRA Hazardous Waste Number: U002, U159

EPA Hazardous Waste ID Number: D001, D035, F003, F005

EPA Hazard Waste Class: Ignitable Waste. Toxic Waste (Methyl Ethyl Ketone content)

SECTION 14 TRANSPORT INFORMATION

DOT	Less than 1 Liter (0.3 gal)	Greater than 1 Liter (0.3 gal)
Proper Shipping Name:	Consumer Commodity	Flammable Liquid NOS
Hazard Class/Packing Group:	ORM-D	3, PGII
UN/NA Number:	None	UN1993
Hazard Labels:	None	Flammable Liquid (Methyl Ethyl Ketone, Acetone)

IMDG		
Proper Shipping Name:	Flammable Liquid, N.O.S.	Limited Quantity
Hazard Class/Packing Group:	3, II	
UN Number:	UN1993	
Label:	None (Limited Quantities are excepted from labeling)	

2004 North American Emergency Response Guidebook Number: 127 or 128

SECTION 15 REGULATORY INFORMATION

Hazard Category for Section 311/312:	Acute Health, Flammable
Section 302 Extremely Hazardous Substances (TPQ):	This product does not contain chemicals regulated under SARA Section 302.
Section 313 Toxic Chemicals:	This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

Chemical	CAS #	% by wt.
Methyl Ethyl Ketone	78-93-3	60 - 100%

CERCLA 103 Reportable Quantity:	Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Methyl Ethyl Ketone (100% maximum) of 5,000 lbs, is 5,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.
California Proposition 65:	This product does not contain any chemicals subject to California Proposition 65 regulation.
TSCA Inventory:	All of the components of this product are listed on the TSCA inventory.
Canadian WHIMS Classification:	Class B, Division 2; Class D, Division 2, Subdivision B; Class D, Division 2, Subdivision A. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16 OTHER INFORMATION

NFPA and HMIS:

NFPA Hazard Signal:	Health: 1	Flammability: 3	Reactivity: 0	Special: None
HMIS Hazard Signal:	Health: 2	Flammability: 3	Reactivity: 0	PPE: G

Disclaimer:
The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: WATER PUTTY HMIS CODES: H F R P
PRODUCT CODE: 8040 0 0 0

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Custom Building Products, Inc.
ADDRESS: 6511 SALT LAKE AVE., BELL, CA. 90201
EMERGENCY PHONE: (323) 582-0846 INFORMATION PHONE: (323) 582-0846
DATE REVISED : 10-11-04 NAME OF PREPARER : STEVE TAYLOR
REASON REVISED : NEW

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS OSHA PEL	OCCUPATIONAL EXPOSURE LIMITS ACGIH TLV	VAPOR PRESSURE mm Hg @ TEMP	Wt. %
CALCIUM CARBONATE/ LIMESTONE	1317-65-3		10mg/M3	N/A	40

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: N/A SPECIFIC GRAVITY (H2O=1): 2.6
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
SOLUBILITY IN WATER: SLIGHT
APPEARANCE AND ODOR: YELLOW POWDER; NO ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: NONE KNOWN

SPECIAL FIREFIGHTING PROCEDURES

NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS
NONE

========== SECTION V - REACTIVITY DATA ==========

STABILITY: STABLE

CONDITIONS TO AVOID
NONE

INCOMPATIBILITY (MATERIALS TO AVOID)
POSSIBLE REACTIVITY WITH STRONG MINERAL ACIDS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
REACTION WITH ACIDS WILL EVOLVE CARBON DIOXIDE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

========== SECTION VI - HEALTH HAZARD DATA ==========

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
REMOVE TO FRESH AIR.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
MAY DEVELOP SUFFICIENT HEAT TO CAUSE BURNS TO SKIN IF A LARGE MASS IS KEPT IN CONTACT WITH SKIN WHILE HARDENING. PARTICLES MAY CAUSE IRRITATION TO EYES.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
NONE

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
PLASTER HARDENS WHEN WETTED AND IF INGESTED MAY RESULT IN OBSTRUCTION. SEE PHYSICIAN.

HEALTH HAZARDS (ACUTE AND CHRONIC)
ACUTE: NONE
CHRONIC: NONE

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO NONE

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE

EMERGENCY AND FIRST AID PROCEDURES
EYE CONTACT: FLUSH WITH WATER TO REMOVE PARTICLES. IF IRRITATION PERSISTS, SEE PHYSICIAN.
SKIN CONTACT: WASH WITH SOAP AND WATER.

INHALED: REMOVE TO FRESH AIR.
SWALLOWED: IF INGESTED, SEE PHYSICIAN BECAUSE OF POSSIBLE BLOCKAGE.

========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
CLEAN UP USING DRY METHODS THAT DO NOT DISPERSE DUST INTO THE AIR.
AVOID BREATHING DUST. EMERGENCY PROCEDURES ARE NOT REQUIRED.

WASTE DISPOSAL METHOD
CAN BE TREATED AS COMMON WASTE.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
NONE

OTHER PRECAUTIONS
NONE

========== SECTION VIII - CONTROL MEASURES ==========

RESPIRATORY PROTECTION
NIOSH APPROVED RESPIRATOR FOR NUISANCE DUST.

VENTILATION
LOCAL EXHAUST.

PROTECTIVE GLOVES
NONE REQUIRED.

EYE PROTECTION
DUST GOGGLES OR SAFETY GLASSES.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
NONE REQUIRED.

WORK/HYGIENIC PRACTICES
KEEP SPILLED MATERIALS CLEANED UP.

========== SECTION IX - DISCLAIMER ==========

DISCLAIMER
THE INFORMATION PRESENTED HERE IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

Handy & Harman of Canada, Limited

MATERIAL SAFETY DATA SHEET

SECTION 1 MATERIAL IDENTIFICATION AND USE

CODE BA-3 rev 10/06

MATERIAL NAME IDENTIFIER: **SIL-FOS, FOS-FLO**

Manufacturer's Name: **HANDY & HARMAN OF CANADA, LIMITED**		*Street Address:*	**290 CARLINGVIEW DRIVE**
City: **REXDALE**	*Province/State/Country:* **ONTARIO, CANADA M9W 5G1**	*Emergency Phone No:*	**(416) 675-1860**
Supplier's Name:		*Street Address:*	
City:	*Province/State/Country:*	*Emergency Phone No:*	

Chemical Name: Silver Brazing Filler Metal	**Chemical Family:** Ag/Cu/P; Cu/P; Cu/P/Sn; Cu/P/Sn/Ni Alloys	**Chemical Formula:** Refer To Chart
Molecular Weight: N/Avl.	**Trade Names, Synonyms:** Refer To Chart	**Material Use:** Filler Metals For Brazing

SECTION 2 HAZARDOUS CHEMICAL COMPONENTS

Chemical Component	*CAS Number*	*(Refer to filler metal chart below for nominal composition %)*
SILVER (Ag)	7440-22-4	**ACGIH:** TLVs (2000) 0.1 mg/m^3 TWA (metal) **OSHA PEL:** 0.01 mg/m^3 TWA **LD $_{50}$** N/Avl. **LC $_{50}$** N/Avl.
COPPER (Cu)	7440-50-8	**ACGIH:** TLVs (2000) 0.2 mg/m^3 TWA (fume); 1.0 mg/m^3 TWA (dusts & mists) **OSHA PELS:** 0.1 mg/m^3 TWA (fume); 1.0 mg/m^3 TWA (dusts & mists) **LD $_{50}$** 470 mg/kg oral-mouse **LC $_{50}$** N/Avl.
PHOSPHOROUS (P) (red allotropic form)	7723-14-0	**ACGIH:** TLVs N/Avl. **OSHA PEL:** N/Avl. **LD $_{50}$** N/Avl. **LC $_{50}$** N/Avl.
TIN (Sn)	7440-31-5	**ACGIH:** TLVs (2000) 2.0 mg/m^3 TWA (metal, oxide, and inorganic compounds, as Sn) **OSHA PEL**: 2.0 mg/m^3 TWA **LD $_{50}$** 72 mg/kg oral-mouse **LC $_{50}$** 15 mg/m^3/10m inhal.-monkey
NICKEL (Ni)	7440-02-0	**ACGIH:** TLVs (2000) 1.0 mg/m^3 TWA (metal)(inhalable fraction) 0.2 mg/m^3 TWA (insoluble compounds, as Ni)(inhalable fraction) **OSHA PEL:** 1.0 mg/m^3 TWA (metal & insoluble compounds, as Ni) **LD $_{50}$** N/Avl. **LC $_{50}$** N/Avl.

HANDY & HARMAN BRAZING FILLER METALS CHART

FILLER METAL	AWS / SFA	Nominal Composition, %				Solidus (Melt Point)	Liquidus (Flow Point)	Brazing Range		Specific
NAME	CLASS	Ag	Cu	P	Others	ºF ºC	ºF ºC	ºF	ºC	Gravity
SIL-FOS 18		18	74.75	7.25		1190-645	1190-645	1190-1300	645-705	8.1
SIL-FOS	BCuP5	15	80	5		1190-645	1475-800	1300-1500	705-815	8.44
SIL-FOS 6	BCuP-4	6	86.75	7.25		1190-645	1325-720	1275-1450	690-785	7.9
SIL-FOS 6M		6	88	6		1190-645	1460-795	1300-1500	705-815	8.1
SIL-FOS 5	BCuP-3	5	89	6		1190-645	1495-815	1325-1500	720-815	8.14
SIL-FOS 5F	BCuP-7	5	88.25	6.75		1190-645	1420-770	1300-1500	705-815	8.14
SIL-FOS 2	BCuP-6	2	91	7		1190-645	1450-785	1325-1500	720-815	8.0
SIL-FOS 2M		2	91.4	6.6		1190-645	1495-815	1350-1550	730-845	8.1
SIL-FOS 1		9	92.6	6.5		1190-645	1500-815	1350-1600	730-870	8.1
FOS-FLO 7	BCuP-2	0	92.75	7.25		1310-710	1460-795	1350-1550	730-845	8.01
FOS-FLO 6		0	94	6		1310-710	1570-855	1375-1575	745-855	8.12
FOS-FLO 5	BCuP-1	0	95	5		1310-710	1695-925	1450-1700	790-925	8.1
FOS-FLO 670		0	87	6	7 Sn	1215-657	1270-687	1270-1450	687-788	8.4
FOS-FLO 671		0	85.3	6.2	7 Sn, 1.5 Ni	1134-612	1260-682	1260-1425	682-774	8.47

Handy & Harman of Canada, Limited
MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA
CODE BA-3 rev 10/06

Physical State: Gas Liquid Solid ■
Odour & Appearance: No Odour; Solid Metal Wire, Strip, Powder, Paste
Odour Threshold (ppm): N/Avl.
Vapour Pressure (mm.Hg): N/Avl.
Vapour Density (AIR=1): Solid-N/Appl.
Evaporation Rate: Solid - N/Appl.
Boiling Point (ºC): Solid - N/Appl.
Freezing Point (ºC): Solid - N/Appl.
% Volatile (By Volume): N/Appl.
Solubility In Water (20ºC): Insoluble
pH: N/Appl.
Specific Gravity: Refer To Chart
Coeff.-Water Oil Disp.: N/Appl.

SECTION 4 FIRE AND EXPLOSION DATA

Flammability: Yes ■ No **If yes, under which conditions?**
Dust, powder and fumes are flammable when exposed to flame or by chemical reaction with oxidizing agents *(see Section 5 for incompatible materials)*. Fires or explosions involving these alloys may release potentially toxic emissions of metal or metal oxide fumes *(see Section 2 for hazardous components)*.
Means Of Extinction: Dry powder for metal fires. Do not use water on dust, powder or fume fires.
Special Procedures: Use self-contained breathing apparatus with full face-piece operated in pressure demand or other positive pressure mode.
Flashpoint(ºC) & Method: Solid Metal - Non-Flammable
Upper Explosion Limit (% By Volume): N/Appl.
Lower Explosion Limit (%By Volume): Solid Metal - N/Appl.
Auto Ignition Temperature (ºC): Solid Metal - N/Appl.
TDG Flammability Classification: None
Hazardous Combustion Products: Solid Metal - N/Appl.
Sensitivity To Impact Explosion Data: N/Appl.
Rate Of Burning: N/Appl.
Explosive Power: N/Appl.
Sensitivity To Static Discharge: N/Appl.

SECTION 5 REACTIVITY DATA

*****AVOID DISPERSION OF FINELY DIVIDED PARTICLES IN AIR*****

Chemical Stability: Yes ■ No **If yes, under which conditions?** Normal Ambient Environment.
Incompatibility With Other Substances: Yes ■ No **If yes, which ones?**
Ammonia; HNO_3; Azides; Ethanol; Ethylenimine; Mg; Chlorates; Bromates; C_{12}; CIF_3; Chlorine Oxides; Inorganic Peroxides; Peroxyformic Acid; Permonosulphuric Acid; Fluorine; CS_2; SeOCI; SeOF; SeF_4; Iodates.
Reactivity And Under What Conditions: Silver and copper can form explosive acetylides upon contact with uncombusted acetylene.
Hazardous Decomposition Products: Hazardous polymerization will not occur. Upon heating, danger is mostly from inhalation of metal (oxide) fumes. Overexposure to elemental oxide fumes or dust can cause nausea and metal fume fever. Use hooded exhaust ventilation to carry all fumes away from work area and, if necessary, use air supplied respirator (*see Section 7*). Thought should be given to the heating methods, flux and base metals being joined which could emit fumes on heating depending on their particular chemistry.
Avoid overheating *(see chart, Brazing Range)*.

SECTION 6 TOXICOLOGICAL PROPERTIES

Route Of Exposure: ***Inhalation*** Inhalation of the components of these products are not known to present a significant risk to health when used according to instructions and with appropriate protective measures *(see Section 7)*. Inhalation of the component/elements has been reported to cause one or more of the following symptoms/effects upon excessively high and/or prolonged inhalation/exposure.

SILVER:	***Acute***	May cause grey discolouration of mucous membranes.
	Chronic	May produce argyria, a permanent blue-grey discolouration of the skin, eyes, mucous membranes, and the respiratory tract.
COPPER:	***Acute***	Acute exposure to dust or fume may cause respiratory tract irritation, fever, muscle ache, chills, cough, weakness, and a metallic taste.
	Chronic	Exposure may cause damage to the liver, kidney, spleen, pancreas, and brain.
PHOSPHOROUS:	***Acute***	When heated in air, fume is corrosive and irritating to eyes, nose, throat, and mucous membranes.
	Chronic	Unlikely.
TIN	***Acute***	Dust or fume may cause respiratory tract irritation, nausea, joint/muscle pains.
	Chronic	May cause stannosis, a benign pneumoconeosis, as well as possible dyspnea.
NICKEL:	***Acute***	Dust or fumes may produce headache, nausea, vertigo, asthma, and pulmonary edema.
	Chronic	May increase the risk of cancer to the nasopharynx, lungs, prostate, and kidney.

Miscellaneous Toxicological Information

Nickel is classified as a potential human carcinogen by the following organizations (with respective sub-classifications):
1. IARC (Group 2B)
2. NTP (Group 2B)

Nickel has also produced fetotoxic and teratogenic effects in animal studies, and mutagenic responses in mammalian cell cultures.
Neither Silver, Copper, Tin, nor Phosphorous are classified as potential or demonstrated human carcinogens by IARC, NIOSH, NTP, OSHA, or ACGIH.

SECTION 6 (cont'd) TOXICOLOGICAL PROPERTIES

CODE BA-3 rev 10/06

Health Conditions Aggravated By Exposure: Pre-existing pulmonary diseases (e.g., bronchitis, emphysema) may be aggravated by inhalation exposure to these materials, particularly as fume. Exposure to nickel by inhalation and/or ingestion may aggravate pre-existing diseases of the liver, kidneys, central nervous system, and musculoskeletal system.

Route Of Exposure

Skin: In solid form, materials are not known to be hazardous. In finely divided form, skin contact may produce localized irritation, localized argyria, skin discolouration, and contact or allergic dermatitis.

Eyes: Exposure of the eyes to finely divided form of these materials may produce localized argyria, irritation, conjunctivitis, and ulceration of the cornea.

Ingestion: Finely divided form of these materials may produce gastric irritation, vomiting, abdominal pain, hemorrhage, and diarrhea. Long-term chronic ingestion may produce damage to the liver, kidney, spleen, pancreas, musculoskeletal system, blood-forming organs, and central nervous system.

LD_{50} Of Material - Specify Species And Route: N/Avl.	**LC_{50} Of Material Specify Species:** N/Avl.	**Exposure Limit Of Material:** N/Avl.	**Irritancy Of Material:** N/Avl.
Sensitizing Capability Of Material: N/Avl.	**Carcinogenicity Of Material:** N/Avl.	**Reproductive Effects Of Material:** N/Avl.	**Synergistic Materials:** N/Avl.

SECTION 7 PREVENTATIVE MEASURES

Personal Protective Equipment: Personal protective equipment will be required when using these materials. The nature of the processing activity will determine what form of equipment is necessary, i.e., safety glasses, respirator, protective clothing, etc. Personal protective equipment should not be substituted for proper handling and engineering controls.

Gloves: Wear appropriate protective gloves to prevent injury from the hazards of brazing and/or repeated contact with finely divided material. Avoid flammable fabrics.

Respiratory: Local exhaust, mechanical ventilation, and/or respiratory equipment may be required to maintain a protection factor appropriate to the airborne concentrations of the contaminants generated and provide sufficient clean air for breathing. If exposure levels exceed OSHA PELS, wear a NIOSH/MSHA-approved respirator (or other approving authority) for protection from the airborne contaminants. All adjacent persons in the immediate vicinity of brazing or "soldering" operations shall be similarly protected as necessary by ventilation or approved respirators.

Eyes: Wear eye protection (safety glasses, dust-proof goggles) adequate to prevent eye contact with this material in finely divided form and to prevent eye injury from the hazards of brazing. Plastic-frame safety spectacles with side shields and filter lenses (shade #3 or #4) are recommended.

Footwear: Refer to workplace safety regulations.

Clothing: Avoid flammable fabrics. Wear appropriate clothing to prevent skin injuries from the hazards of brazing.

Other Protection: Practice good housekeeping and personal hygiene procedures. To avoid ingestion of material, wash hands and face before eating, drinking, or consumption of tobacco.

Brazing alloys may be used with a separately applied flux which, when heated, may emit irritating and/or toxic gases and fumes. Consult the MSDS for the specific flux in use to determine its hazards and appropriate protective measures. For general guidance, refer to American National Standards Institute (ANSI) Z49.1, "Safety in Welding and Cutting" (American Welding Society, Miami, FL 33135).

Engineering Controls: Adequate ventilation, sinks, showers, and eyewash stations should be provided. The best industrial control practice is to maintain concentrations of all chemical fumes and dusts as low as is practical.

Leak And Spill Procedure: If metal is molten, allow to solidify and cool. Clean up any spilled material so as to minimize dispersion of dusts. Wet sweeping or vacuuming using HEPA, or similarly approved filtration, are recommended methods.

Waste Disposal: Return to manufacturer for reclaim. **Sara Title III - Hazard Classes:** Acute Health Hazard; Chronic Health Hazard

Handling Procedure And Equipment: Avoid heating above brazing range *(see chart, Section 2)* as excessive fumes may result. When applicable, use sufficient flux or atmosphere to protect the metals and minimize oxidation/vapourization during use.

Storage Requirements*:* Avoid storage near incompatible materials *(see also Section 5)*. Also avoid conditions which create toxic fumes or dusts. Wash exposed skin after handling material. Stable at room temperature.

Special Shipping Information: No special requirements.

WHMIS Classification: Class D, Division 2, Subdivision B.

Handy & Harman of Canada, Limited
MATERIAL SAFETY DATA SHEET

SECTION 8 FIRST AID MEASURES CODE BA-3 rev 10/06

Emergency And First Aid Procedures

Inhalation: Move victim to fresh air at once. Give oxygen if breathing is laboured, artificial respiration if victim is not breathing. Keep person warm and quiet. Get medical attention immediately.

Skin: Contact in solid forms is not known to be hazardous. If clothing is contaminated with finely divided particles, remove. Wash affected area with large quantities of water for at least 5 minutes. Get medical attention if necessary.

Eyes: Flush immediately with large amounts of water for at least 15 minutes while lifting the lower and upper eyelids. If irritation continues, get medical attention.

Ingestion: If person is conscious, give large amounts of water and induce vomiting. Seek medical attention. If person is unconscious or convulsive, get immediate medical attention.

SEEK MEDICAL ATTENTION IN ALL CASES OF EXPOSURE

SIGNS AND SYMPTOMS OF EXPOSURE:

Acute

Inhalation: Chills, fever, aching muscles, sneezing, dry throat, coughing, constriction of throat, nausea, irritation of nose and trachea, discolouration of mucous membranes, difficulty in breathing, chest pain, headache.

Skin: Particles may cause irritation, pain, nausea, vomiting.

Eyes: Particles may cause irritation, redness, itching.

Ingestion: Nausea, vomiting, headache, diarrhea, fever, abdominal pain.

Chronic

Inhalation: Cough, difficulty in breathing, laryngitis, discolouration of mucous membranes, kidney and liver disorders.

Skin: May cause argaria, discolouration, contact dermatitis and/or allergic sensitization among hyper-susceptible individuals.

Eyes: Irritation

Ingestion: May cause damage to the liver, kidneys, musculoskeletal system and nervous system.

Medical Conditions Generally Aggravated By Exposure: *(see Section 6)*.

Sources Used: Canadian Centre For Occupational Health And Safety, Hamilton, Ontario; American Welding Society, Miami, Florida; ACGIH, Cincinnati, Ohio; Lucas-Milhaupt Inc., Cudahy, Wisconsin.

Additional Information*:* The information contained herein is only for the manufactured product. The composition and hazards of any resultant fumes due to heating methods, filler metal alloy, flux and base metals employed may vary significantly.

Brazing fumes consist of various airborne substances which may create hazards to health when they are inhaled or swallowed. The degree of hazard to the worker(s) in the work area depends upon the composition of the total fume, the concentration of contaminants in the breathing air and the time-length of exposure to it. It is the responsibility of the user/employer to ensure the suitability of the material use and that TLV, TWA, and STEL values are not exceeded.

Assessment of the possible exposure to the worker(s) to hazardous fumes, when required, should be carried out by a competent person and may involve air concentration measurements

SECTION 9 PREPARATION DATE OF MSDS

PREPARED BY:	PHONE NO:	DATE:
Marketing Department	(416) 675-1860	Revised 10/06

Handy & Harman of Canada, Limited

MATERIAL SAFETY DATA SHEET

SECTION 1 MATERIAL IDENTIFICATION AND USE

CODE BA-3 rev 10/06

MATERIAL NAME IDENTIFIER: **SIL-FOS, FOS-FLO**

Manufacturer's Name: **HANDY & HARMAN OF CANADA, LIMITED**		*Street Address:*	**290 CARLINGVIEW DRIVE**
City: **REXDALE**	*Province/State/Country:* **ONTARIO, CANADA M9W 5G1**	*Emergency Phone No:*	**(416) 675-1860**
Supplier's Name:		*Street Address:*	
City:	*Province/State/Country:*	*Emergency Phone No:*	

Chemical Name: Silver Brazing Filler Metal	**Chemical Family:** Ag/Cu/P; Cu/P; Cu/P/Sn; Cu/P/Sn/Ni Alloys	**Chemical Formula:** Refer To Chart
Molecular Weight: N/Avl.	**Trade Names, Synonyms:** Refer To Chart	**Material Use:** Filler Metals For Brazing

SECTION 2 HAZARDOUS CHEMICAL COMPONENTS

Chemical Component	*CAS Number*	*(Refer to filler metal chart below for nominal composition %)*
SILVER (Ag)	7440-22-4	**ACGIH:** TLVs (2000) 0.1 mg/m^3 TWA (metal) **OSHA PEL:** 0.01 mg/m^3 TWA **LD $_{50}$** N/Avl. **LC $_{50}$** N/Avl.
COPPER (Cu)	7440-50-8	**ACGIH:** TLVs (2000) 0.2 mg/m^3 TWA (fume); 1.0 mg/m^3 TWA (dusts & mists) **OSHA PELS:** 0.1 mg/m^3 TWA (fume); 1.0 mg/m^3 TWA (dusts & mists) **LD $_{50}$** 470 mg/kg oral-mouse **LC $_{50}$** N/Avl.
PHOSPHOROUS (P) (red allotropic form)	7723-14-0	**ACGIH:** TLVs N/Avl. **OSHA PEL:** N/Avl. **LD $_{50}$** N/Avl. **LC $_{50}$** N/Avl.
TIN (Sn)	7440-31-5	**ACGIH:** TLVs (2000) 2.0 mg/m^3 TWA (metal, oxide, and inorganic compounds, as Sn) **OSHA PEL**: 2.0 mg/m^3 TWA **LD $_{50}$** 72 mg/kg oral-mouse **LC $_{50}$** 15 mg/m^3/10m inhal.-monkey
NICKEL (Ni)	7440-02-0	**ACGIH:** TLVs (2000) 1.0 mg/m^3 TWA (metal)(inhalable fraction) 0.2 mg/m^3 TWA (insoluble compounds, as Ni)(inhalable fraction) **OSHA PEL:** 1.0 mg/m^3 TWA (metal & insoluble compounds, as Ni) **LD $_{50}$** N/Avl. **LC $_{50}$** N/Avl.

HANDY & HARMAN BRAZING FILLER METALS CHART

FILLER METAL	AWS / SFA	Nominal Composition, %				Solidus (Melt Point)	Liquidus (Flow Point)	Brazing Range		Specific
NAME	CLASS	Ag	Cu	P	Others	ºF ºC	ºF ºC	ºF	ºC	Gravity
SIL-FOS 18		18	74.75	7.25		1190-645	1190-645	1190-1300	645-705	8.1
SIL-FOS	BCuP5	15	80	5		1190-645	1475-800	1300-1500	705-815	8.44
SIL-FOS 6	BCuP-4	6	86.75	7.25		1190-645	1325-720	1275-1450	690-785	7.9
SIL-FOS 6M		6	88	6		1190-645	1460-795	1300-1500	705-815	8.1
SIL-FOS 5	BCuP-3	5	89	6		1190-645	1495-815	1325-1500	720-815	8.14
SIL-FOS 5F	BCuP-7	5	88.25	6.75		1190-645	1420-770	1300-1500	705-815	8.14
SIL-FOS 2	BCuP-6	2	91	7		1190-645	1450-785	1325-1500	720-815	8.0
SIL-FOS 2M		2	91.4	6.6		1190-645	1495-815	1350-1550	730-845	8.1
SIL-FOS 1		9	92.6	6.5		1190-645	1500-815	1350-1600	730-870	8.1
FOS-FLO 7	BCuP-2	0	92.75	7.25		1310-710	1460-795	1350-1550	730-845	8.01
FOS-FLO 6		0	94	6		1310-710	1570-855	1375-1575	745-855	8.12
FOS-FLO 5	BCuP-1	0	95	5		1310-710	1695-925	1450-1700	790-925	8.1
FOS-FLO 670		0	87	6	7 Sn	1215-657	1270-687	1270-1450	687-788	8.4
FOS-FLO 671		0	85.3	6.2	7 Sn, 1.5 Ni	1134-612	1260-682	1260-1425	682-774	8.47

Handy & Harman of Canada, Limited
MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA
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Physical State: Gas Liquid Solid ■
Odour & Appearance: No Odour; Solid Metal Wire, Strip, Powder, Paste
Odour Threshold (ppm): N/Avl.
Vapour Pressure (mm.Hg): N/Avl.
Vapour Density (AIR=1): Solid-N/Appl.
Evaporation Rate: Solid - N/Appl.
Boiling Point (ºC): Solid - N/Appl.
Freezing Point (ºC): Solid - N/Appl.
% Volatile (By Volume): N/Appl.
Solubility In Water (20ºC): Insoluble
pH: N/Appl.
Specific Gravity: Refer To Chart
Coeff.-Water Oil Disp.: N/Appl.

SECTION 4 FIRE AND EXPLOSION DATA

Flammability: Yes ■ No **If yes, under which conditions?**
Dust, powder and fumes are flammable when exposed to flame or by chemical reaction with oxidizing agents *(see Section 5 for incompatible materials)*. Fires or explosions involving these alloys may release potentially toxic emissions of metal or metal oxide fumes *(see Section 2 for hazardous components)*.
Means Of Extinction: Dry powder for metal fires. Do not use water on dust, powder or fume fires.
Special Procedures: Use self-contained breathing apparatus with full face-piece operated in pressure demand or other positive pressure mode.
Flashpoint(ºC) & Method: Solid Metal - Non-Flammable
Upper Explosion Limit (% By Volume): N/Appl.
Lower Explosion Limit (%By Volume): Solid Metal - N/Appl.
Auto Ignition Temperature (ºC): Solid Metal - N/Appl.
TDG Flammability Classification: None
Hazardous Combustion Products: Solid Metal - N/Appl.
Sensitivity To Impact Explosion Data: N/Appl.
Rate Of Burning: N/Appl.
Explosive Power: N/Appl.
Sensitivity To Static Discharge: N/Appl.

SECTION 5 REACTIVITY DATA

*****AVOID DISPERSION OF FINELY DIVIDED PARTICLES IN AIR*****

Chemical Stability: Yes ■ No **If yes, under which conditions?** Normal Ambient Environment.
Incompatibility With Other Substances: Yes ■ No **If yes, which ones?**
Ammonia; HNO_3; Azides; Ethanol; Ethylenimine; Mg; Chlorates; Bromates; C_{12}; CIF_3; Chlorine Oxides; Inorganic Peroxides; Peroxyformic Acid; Permonosulphuric Acid; Fluorine; CS_2; SeOCI; SeOF; SeF_4; Iodates.
Reactivity And Under What Conditions: Silver and copper can form explosive acetylides upon contact with uncombusted acetylene.
Hazardous Decomposition Products: Hazardous polymerization will not occur. Upon heating, danger is mostly from inhalation of metal (oxide) fumes. Overexposure to elemental oxide fumes or dust can cause nausea and metal fume fever. Use hooded exhaust ventilation to carry all fumes away from work area and, if necessary, use air supplied respirator (*see Section 7*). Thought should be given to the heating methods, flux and base metals being joined which could emit fumes on heating depending on their particular chemistry.
Avoid overheating *(see chart, Brazing Range)*.

SECTION 6 TOXICOLOGICAL PROPERTIES

Route Of Exposure: ***Inhalation*** Inhalation of the components of these products are not known to present a significant risk to health when used according to instructions and with appropriate protective measures *(see Section 7)*. Inhalation of the component/elements has been reported to cause one or more of the following symptoms/effects upon excessively high and/or prolonged inhalation/exposure.

SILVER:	***Acute***	May cause grey discolouration of mucous membranes.
	Chronic	May produce argyria, a permanent blue-grey discolouration of the skin, eyes, mucous membranes, and the respiratory tract.
COPPER:	***Acute***	Acute exposure to dust or fume may cause respiratory tract irritation, fever, muscle ache, chills, cough, weakness, and a metallic taste.
	Chronic	Exposure may cause damage to the liver, kidney, spleen, pancreas, and brain.
PHOSPHOROUS:	***Acute***	When heated in air, fume is corrosive and irritating to eyes, nose, throat, and mucous membranes.
	Chronic	Unlikely.
TIN	***Acute***	Dust or fume may cause respiratory tract irritation, nausea, joint/muscle pains.
	Chronic	May cause stannosis, a benign pneumoconeosis, as well as possible dyspnea.
NICKEL:	***Acute***	Dust or fumes may produce headache, nausea, vertigo, asthma, and pulmonary edema.
	Chronic	May increase the risk of cancer to the nasopharynx, lungs, prostate, and kidney.

Miscellaneous Toxicological Information

Nickel is classified as a potential human carcinogen by the following organizations (with respective sub-classifications):
1. IARC (Group 2B)
2. NTP (Group 2B)

Nickel has also produced fetotoxic and teratogenic effects in animal studies, and mutagenic responses in mammalian cell cultures.
Neither Silver, Copper, Tin, nor Phosphorous are classified as potential or demonstrated human carcinogens by IARC, NIOSH, NTP, OSHA, or ACGIH.

SECTION 6 (cont'd) TOXICOLOGICAL PROPERTIES

CODE BA-3 rev 10/06

Health Conditions Aggravated By Exposure: Pre-existing pulmonary diseases (e.g., bronchitis, emphysema) may be aggravated by inhalation exposure to these materials, particularly as fume. Exposure to nickel by inhalation and/or ingestion may aggravate pre-existing diseases of the liver, kidneys, central nervous system, and musculoskeletal system.

Route Of Exposure

Skin: In solid form, materials are not known to be hazardous. In finely divided form, skin contact may produce localized irritation, localized argyria, skin discolouration, and contact or allergic dermatitis.

Eyes: Exposure of the eyes to finely divided form of these materials may produce localized argyria, irritation, conjunctivitis, and ulceration of the cornea.

Ingestion: Finely divided form of these materials may produce gastric irritation, vomiting, abdominal pain, hemorrhage, and diarrhea. Long-term chronic ingestion may produce damage to the liver, kidney, spleen, pancreas, musculoskeletal system, blood-forming organs, and central nervous system.

LD_{50} Of Material - Specify Species And Route: N/Avl.	**LC_{50} Of Material Specify Species:** N/Avl.	**Exposure Limit Of Material:** N/Avl.	**Irritancy Of Material:** N/Avl.
Sensitizing Capability Of Material: N/Avl.	**Carcinogenicity Of Material:** N/Avl.	**Reproductive Effects Of Material:** N/Avl.	**Synergistic Materials:** N/Avl.

SECTION 7 PREVENTATIVE MEASURES

Personal Protective Equipment: Personal protective equipment will be required when using these materials. The nature of the processing activity will determine what form of equipment is necessary, i.e., safety glasses, respirator, protective clothing, etc. Personal protective equipment should not be substituted for proper handling and engineering controls.

Gloves: Wear appropriate protective gloves to prevent injury from the hazards of brazing and/or repeated contact with finely divided material. Avoid flammable fabrics.

Respiratory: Local exhaust, mechanical ventilation, and/or respiratory equipment may be required to maintain a protection factor appropriate to the airborne concentrations of the contaminants generated and provide sufficient clean air for breathing. If exposure levels exceed OSHA PELS, wear a NIOSH/MSHA-approved respirator (or other approving authority) for protection from the airborne contaminants. All adjacent persons in the immediate vicinity of brazing or "soldering" operations shall be similarly protected as necessary by ventilation or approved respirators.

Eyes: Wear eye protection (safety glasses, dust-proof goggles) adequate to prevent eye contact with this material in finely divided form and to prevent eye injury from the hazards of brazing. Plastic-frame safety spectacles with side shields and filter lenses (shade #3 or #4) are recommended.

Footwear: Refer to workplace safety regulations.

Clothing: Avoid flammable fabrics. Wear appropriate clothing to prevent skin injuries from the hazards of brazing.

Other Protection: Practice good housekeeping and personal hygiene procedures. To avoid ingestion of material, wash hands and face before eating, drinking, or consumption of tobacco.

Brazing alloys may be used with a separately applied flux which, when heated, may emit irritating and/or toxic gases and fumes. Consult the MSDS for the specific flux in use to determine its hazards and appropriate protective measures. For general guidance, refer to American National Standards Institute (ANSI) Z49.1, "Safety in Welding and Cutting" (American Welding Society, Miami, FL 33135).

Engineering Controls: Adequate ventilation, sinks, showers, and eyewash stations should be provided. The best industrial control practice is to maintain concentrations of all chemical fumes and dusts as low as is practical.

Leak And Spill Procedure: If metal is molten, allow to solidify and cool. Clean up any spilled material so as to minimize dispersion of dusts. Wet sweeping or vacuuming using HEPA, or similarly approved filtration, are recommended methods.

Waste Disposal: Return to manufacturer for reclaim. **Sara Title III - Hazard Classes:** Acute Health Hazard; Chronic Health Hazard

Handling Procedure And Equipment: Avoid heating above brazing range *(see chart, Section 2)* as excessive fumes may result. When applicable, use sufficient flux or atmosphere to protect the metals and minimize oxidation/vapourization during use.

Storage Requirements*:* Avoid storage near incompatible materials *(see also Section 5)*. Also avoid conditions which create toxic fumes or dusts. Wash exposed skin after handling material. Stable at room temperature.

Special Shipping Information: No special requirements.

WHMIS Classification: Class D, Division 2, Subdivision B.

Handy & Harman of Canada, Limited
MATERIAL SAFETY DATA SHEET

SECTION 8 FIRST AID MEASURES CODE BA-3 rev 10/06

Emergency And First Aid Procedures

Inhalation: Move victim to fresh air at once. Give oxygen if breathing is laboured, artificial respiration if victim is not breathing. Keep person warm and quiet. Get medical attention immediately.

Skin: Contact in solid forms is not known to be hazardous. If clothing is contaminated with finely divided particles, remove. Wash affected area with large quantities of water for at least 5 minutes. Get medical attention if necessary.

Eyes: Flush immediately with large amounts of water for at least 15 minutes while lifting the lower and upper eyelids. If irritation continues, get medical attention.

Ingestion: If person is conscious, give large amounts of water and induce vomiting. Seek medical attention. If person is unconscious or convulsive, get immediate medical attention.

SEEK MEDICAL ATTENTION IN ALL CASES OF EXPOSURE

SIGNS AND SYMPTOMS OF EXPOSURE:

Acute

Inhalation: Chills, fever, aching muscles, sneezing, dry throat, coughing, constriction of throat, nausea, irritation of nose and trachea, discolouration of mucous membranes, difficulty in breathing, chest pain, headache.

Skin: Particles may cause irritation, pain, nausea, vomiting.

Eyes: Particles may cause irritation, redness, itching.

Ingestion: Nausea, vomiting, headache, diarrhea, fever, abdominal pain.

Chronic

Inhalation: Cough, difficulty in breathing, laryngitis, discolouration of mucous membranes, kidney and liver disorders.

Skin: May cause argaria, discolouration, contact dermatitis and/or allergic sensitization among hyper-susceptible individuals.

Eyes: Irritation

Ingestion: May cause damage to the liver, kidneys, musculoskeletal system and nervous system.

Medical Conditions Generally Aggravated By Exposure: *(see Section 6)*.

Sources Used: Canadian Centre For Occupational Health And Safety, Hamilton, Ontario; American Welding Society, Miami, Florida; ACGIH, Cincinnati, Ohio; Lucas-Milhaupt Inc., Cudahy, Wisconsin.

Additional Information*:* The information contained herein is only for the manufactured product. The composition and hazards of any resultant fumes due to heating methods, filler metal alloy, flux and base metals employed may vary significantly.

Brazing fumes consist of various airborne substances which may create hazards to health when they are inhaled or swallowed. The degree of hazard to the worker(s) in the work area depends upon the composition of the total fume, the concentration of contaminants in the breathing air and the time-length of exposure to it. It is the responsibility of the user/employer to ensure the suitability of the material use and that TLV, TWA, and STEL values are not exceeded.

Assessment of the possible exposure to the worker(s) to hazardous fumes, when required, should be carried out by a competent person and may involve air concentration measurements

SECTION 9 PREPARATION DATE OF MSDS

PREPARED BY:	PHONE NO:	DATE:
Marketing Department	(416) 675-1860	Revised 10/06

almit

MATERIAL SAFETY DATA SHEET	ALMIT LEAD FREE SOLDER PASTE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION	
Trade Name	Almit Solder Paste. LFM 48 X TM-HP, LFM 48 W TM-HP
Tin / Silver / Copper Alloys	LFM 48
Manufacturer / Supplier	Almit Technology Ltd.
Address	Unit 7 Forest Row Business Park Station Road Forest Row East Sussex RH18 5DW
Phone Number (United Kingdom)	01342 822 844
Fax Number (United Kingdom)	01342 824 155

SECTION 2. COMPOSITION AND INFORMATION ON THE INGREDIENTS			
Preparation - Hazardous Components (% w/w)			
Tin	Copper	Silver	Colophony
90.00- 100.00	Balance	0 –5.0	9 - 13 R42/43
Not Classified	Not Classified	Not Classified	Irritant

SECTION 3. HAZARDS IDENTIFICATION	
Main Hazards	Contact with the molten liquid will cause severe burns. Repeated Exposure may cause cumulative effects. Sensitisation by Skin Contact
Health Effects – Eyes	Molten liquid will cause severe burns and may result in blindness. Cream will cause conjunctival irritation and possible corneal damage.
Health Effects – Skin	Contact with the molten liquid will cause severe burns. Repeated or prolonged contact may cause Itching, Sensitisation, Soreness, Defatting of the skin and Dermatitis.
Health Effects – Ingestion	Contact with the molten liquid will cause severe burns. Long term exposure may include:- Constipation or Diarrhoea, Fatigue, Anorexia, Abdominal pain, Reduction in the oxygen Carrying capacity of the blood. Swallowing may cause irritation of the mouth & digestive tract.
Health Effects – Inhalation	Inhalation of dust and/or fumes will result in symptoms similar to those for ingestion, also Gastrointestinal irritation and Vomiting. Repeated exposure coupled with slow elimination may result in Accumulation.

SECTION 4. FIRST AID MEASURES	
Eye contact	Flood the eye immediately with copious amounts of cool fresh Water for 10 – 15mins. Pay particular attention to under the eyelids. Call for immediate medical attention.
Skin contact	Wash the skin with soap and warm water. If any soreness or Inflammation persists call for medical attention. Wash all contaminated workwear before reuse. After contact with molten liquid, flood with cold water. Call for immediate medical attention.
Ingestion	Do not induce vomiting. Keep warm and rest. Wash out mouth. Call for immediate medical attention.
Inhalation	Remove at once to fresh air. Keep warm and rest. Call for immediate medical attention if there is any respiratory Distress.

SECTION 5. FIRE FIGHTING MEASURES	
Extinguishing media	Use an Alcohol resistant foam, Water spray, Dry chemical or Carbon Dioxide. Sand may be used for small fires.
Unsuitable Extinguishing media	**Do NOT use water jet.**
Special hazards	Gives off hazardous fumes in a fire.
Fire fighters protective equipment	Wear full protective clothing and Self contained Breathing apparatus operating in the positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Wear the appropriate protective clothing
Environmental precautions	Prevent any material entering watercourses and Drains etc. Advise the Local and River authorities if Spillage has entered watercourses soil or vegetation.
Spillage	Wipe up with disposable towels, transfer waste into a suitable Container for safe disposal. Avoid creating dust.

SECTION 7. HANDLING AND STORAGE	
Handling	Avoid contact with the eyes and skin. Avoid breathing fumes and Dust. Use local exhaust ventilation. Avoid contaminated Workwear.
Storage	Store in a cool dry ventilated area in manufactures containers. Ensure correctly labelled.

SECTION 8. PERSONAL PROTECTION AND EXPOSURE CONTROL	
National standards for Occupational Exposure	**See also Regulatory Information.**
Tin	UK EH40: OES 2mg/m^3 8hr TWA. UK EH40: OES,STEL 4mg/m^3 15mins.
Silver	UK EH40: OES 0.1mg/m^3 8hr TWA
Copper	UK EH40: OES 1mg/m^3 8hr TWA. UK EH40: OES, STEL 2mg/m^3 15mins
Colophony	UK EH40: MEL 0.05mg/m^3 8hr TWA UK EH40: MEL, STEL 0.15mg/m^3 15mins
Engineering control procedures	Engineering solutions should be implemented to prevent or reduce Exposure to soldering fumes and dust. This should include process Or personnel enclosure, Mechanical dust and fume extraction to Atmosphere/scrubber. Control of process to reduce or eliminate Emissions. Documented process and safety controls and Personnel protection, Gloves, Masks etc.
Respiratory protection	Where there is a high risk to fume and dust ingestion a respirator Should be worn.
Hand protection	When handling hot liquid (to be avoided if possible) thick Thermally insulating gloves should be worn. Avoid damp or wet Gloves. Wash hands after handling with soap & warm water, Particularly before eating or drinking.
Eye and Facial protection	A full heat resistant helmet face shield should be worn, when Handling hot liquid. Goggles or Safety glasses as appropriate.
Body protection	Normal industrial workwear, avoid exposed skin.

Biological Standards

Under the management of Health And Safety at Work (Amendment) Regulations 1994 employers should assess the risks at work to the health of pregnant workers, those who have recently given birth, or who are currently Breast feeding.

SECTION 9. CHEMICAL AND PHYSICAL PROPERTIES	
Density ($g.cm^{-3}$) at 20^0C	7.40 To 8.0 Approx.
Liquidus	220 ^{0}C
Colour and appearance	Grey metallic
Physical state	Metallic paste, Solid solder particles mixed with liquid flux
Solubility in Water	Insoluble
Odour	Mild

SECTION 10. STABILITY AND REACTIVITY	
Stability	Stable under all normal factory condition's
Conditions to avoid	None known
Materials to avoid	Solder will react with concentrated Nitric Acid to release Nitric Oxide which will oxidise to Nitrogen Dioxide. Workers exposed to These gasses should seek medical attention. Other strong acids may also react in a similar way. Solder paste will react with strong oxidising agents, with Potentially explosive violence.
Hazardous Decomposition products	Molten liquid may give of fumes. Avoid temps. above 500^0C Heated Colophony gives rise to fumes associated with asthma.

SECTION 11. TOXICOLOGICAL INFORMATION	
Acute toxicity	Can lead to weakness, insomnia, hypertension, headaches and Joint pains. Low order of toxicity.
Irritancy – Eyes	May cause conjunctival irritation, corneal damage, and iritis.
Irritancy – Skin	May cause skin irritation.
Reproductive and Developmental	None known
Skin contact	Absorption through the skin is not significant.
Chronic Toxicity / Carcinogens	Damage in the blood - forming, nervous, urinary and reproductive Systems.
Human	Inhalation may cause sensitisation of the respiratory system.

SECTION 12. ENVIRONMENTAL INFORMATION	
Ecotoxicity	Rated as slightly toxic to Aquatic species.
Degradability and Persistence	Resistant to Bio-degradation.
Bio-accumulation	Has the potential to bio-accumulate.
Mobility	A small portion will dissolve in water, will accumulate in soil.

SECTION 13. DISPOSAL PROCEDURES	
Product disposal	Waste should be disposed under the "Special Waste" regulations. COPA 1980. Metal should be recycled if possible and disposed Through your metal supplier if possible. Control of Pollution Act 1974, and the Environmental Protection Act 1990.
Container disposal	Containers must not be reused. Dispose with care. See above.

SECTION 14. TRANSPORT PROCEDURES	
UN Number	Not Classified as hazardous for transport.
ADR/RID – Class	Not Classified as hazardous for transport.
IMDG – Class	Not Classified as hazardous for transport.
IMDG - Marine pollutant	Not marked as a marine pollutant.
IATA – Class	Not Classified as hazardous for transport.

SECTION 15. REGULATORY INFORMATION	
Label Information	Health, Safety, Environment. Irritant.
Risk phrases	R36/37/38: R42: & R43:
Safety phrases	P8 warning contains Colophony S23: S24: S37: & S45:
EINECS Listing	Not listed
EC Annex I classification	Xi – Irritant
Applicable EC Directives	Dangerous Substances Directive 67/548/EEC and as amended by Directive 92/32/EEC Dangerous Preparations Directive 88/379/EEC and as amended by Directive 90/492/EEC
Applicable UK Legislation	The Control of substances Hazardous to Health Regulations 1994 The Health and Safety at Work Act 1974 The Management of Health and Safety at Work Regulations 1992 The Management of Health and Safety at Work Regulations 1994 as Amended Chemical (Hazard Information & Packaging for Supply) Regulations CHIP 1997
Technical Guidance	An Introduction to Local Exhaust Ventilation HS(G)37: A Step by Step Guide to the COSHH Regulations HS(G)97:
This safety data sheet has been revise and rewritten to comply with the Chemicals (Hazard Information & Packaging) Regulations 1997. Commission Directive 91/155/EEC.	

SECTION 16. OTHER INFORMATION

The information contained in this document is based on data considered to be accurate at the time of publication and is given free of charge. It is representative of typical product but batches may exhibit minor variations.

No warranty is expressed or implied concerning the accuracy of this data.

In case of doubt or for clarification Almit Technology should be consulted. Almit are unable to anticipate all condition's under which the product may be used, and users are advised to carry out an assessment of workplace risk and carry out their own tests to determine the Safety and Suitability for the process and condition's of use.

This information is intended for use in the United Kingdom only, as different limits may be set in other countries. Please check with your Local and National Authorities or Supplier.

End

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/25/2003 Reviewed on 07/14/2003

1 Identification of substance

Product details

Trade name: **256GS Sn55Pb45, Sn60Pb40, Sn62Pb38, Sn63Pb37, Sn65Pb35**
Application of the substance / the preparation: Solder paste

Manufacturer/Supplier:
Kester *Tel.(847) 297-1600*
515 E. Touhy Ave. *Fax.(847) 390-9338*
Des Plaines, IL 60018

Information department:
MSDS Coordinator *Tel. (847) 699-5755*
Emergency information:
CHEMTREC 24-Hour Emergency Telephone Number: *(800)424-9300*
CHEMTREC 24-Hour Emergency Telephone Number (Outside of the U.S. and Canada): *(703)527-3887*

2 Composition/Data on components

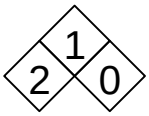
Chemical characterization
Description: *Mixture of the substances listed below with nonhazardous additions.*

Dangerous components:		
7440-31-5	*tin*	*50-100%*
7439-92-1	*lead*	*25-50%*
65997-05-9	*Rosin, polymerized*	*2.5-10%*
8050-09-7	*Rosin*	*≤ 2.5%*
143-24-8	*bis(2-(2-methoxyethoxy)ethyl) ether*	*≤ 2.5%*

3 Hazards identification

WHMIS Hazard Symbols

Information pertaining to particular dangers for man and environment:
The product has to be labelled due to the calculation procedure of international guidelines.
Harmful by inhalation and if swallowed.
Danger of cumulative effects.
May cause sensitisation by skin contact.
Possible risk of impaired fertility.
Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
Classification system:
NFPA ratings (scale 0 - 4)



Health = 2
Fire = 1
Reactivity = 0

(Contd. on page 2)

Material Safety Data Sheet

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Printing date 07/25/2003 Reviewed on 07/14/2003

Trade name: 256GS Sn55Pb45, Sn60Pb40, Sn62Pb38, Sn63Pb37, Sn65Pb35

(Contd. of page 1)

HMIS-ratings (scale 0 - 4)

HEALTH	*2
FIRE	1
REACTIVITY	0

*Health = *2*
Fire = 1
Reactivity = 0

4 First aid measures

General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation: *Supply fresh air; consult doctor in case of complaints.*
After skin contact: *Immediately wash with water and soap and rinse thoroughly.*
After eye contact: *Rinse opened eye for several minutes under running water.*
After swallowing: *Induce vomiting, if person is conscious. Seek medical help.*

5 Fire fighting measures

Suitable extinguishing agents:
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards caused by the material, its products of combustion or resulting gases:
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO2)
Aliphatic aldehydes
Melted solder above 1000°F will liberate toxic lead and/or antimony fumes.
Protective equipment: *Wear self-contained respiatory protective device.*

6 Accidental release measures

Person-related safety precautions: *Ensure adequate ventilation*
Measures for environmental protection: *Do not allow product to reach sewage system or any water course.*
Measures for cleaning/collecting: *Scoop up paste and deposit in appropriate containers.*

7 Handling and storage

Handling:
Information for safe handling:
Wash hands after handling paste and before eating or smoking. Care should be taken to remove paste from under fingernails.
Information about protection against explosions and fires: *Keep respiratory protective device available.*

Storage:
Requirements to be met by storerooms and receptacles: *Store at or near 5°C in a dry location.*
Information about storage in one common storage facility: *Not required.*

(Contd. on page 3)

Material Safety Data Sheet

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Trade name: 256GS Sn55Pb45, Sn60Pb40, Sn62Pb38, Sn63Pb37, Sn65Pb35

(Contd. of page 2)

Further information about storage conditions: *Store in cool, dry conditions in well sealed receptacles.*

8 Exposure controls and personal protection

Additional information about design of technical systems: *No further data; see item 7.*

Components with limit values that require monitoring at the workplace:	
7440-31-5 tin	
PEL	*2 mg/m³* *Metal*
REL	*2 mg/m³* *Tin, Metal*
TLV	*2 mg/m³*
7439-92-1 lead	
PEL	*0.05* mg/m³* *as Pb*
REL	*<0.1* mg/m³* *as Pb; *Blood Pb <0.06 mg/100 g whole blood*
TLV	*0.05 mg/m³* *as Pb; BEI*
8050-09-7 Rosin	
PEL	*(Colophony)*
TLV	*SEN; (L)*

Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Breathing equipment:
When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.
Protection of hands:

Protective gloves

Material of gloves:
Nitrile rubber, NBR
Natural rubber, NR
Penetration time of glove material:
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:

Tightly sealed goggles

(Contd. on page 4)

Material Safety Data Sheet

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Trade name: 256GS Sn55Pb45, Sn60Pb40, Sn62Pb38, Sn63Pb37, Sn65Pb35

(Contd. of page 3)

Safety glasses

9 Physical and chemical properties

General Information

Form: *Pasty*
Color: *Silver grey*
Odor: *Mild*

Change in condition
Melting point/Melting range: *> 100°C (> 212°F)*
Boiling point/Boiling range: *Undetermined.*

Flash point: *> 93°C (> 199°F)*

Danger of explosion: *Product does not present an explosion hazard.*

Density at 20°C (68°F): *> 7 g/cm³*

Solubility in / Miscibility with
Water: *Insoluble.*

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: *No decomposition if used according to specifications.*
Materials to be avoided: *Strong acids, strong oxidizers.*
Dangerous reactions *No dangerous reactions known.*
Dangerous products of decomposition:
When heated to soldering temperatures, the solvents are evaporated and rosin may be thermally degraded to liberate aliphatic aldehydes and acids.

11 Toxicological information

Acute toxicity:
Primary irritant effect:
on the skin: Possible local irritation by contact with flux or fumes.
on the eye: Smoke during soldering can cause eye irritation.
through inhalation:
Flux fumes during soldering may cause irritation and damage of mucous membranes and respiratory system.
through ingestion: May be harmful if swallowed.
Sensitization: *Sensitization possible through skin contact.*
Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

(Contd. on page 5)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/25/2003 Reviewed on 07/14/2003

Trade name: 256GS Sn55Pb45, Sn60Pb40, Sn62Pb38, Sn63Pb37, Sn65Pb35

(Contd. of page 4)

12 Ecological information

General notes: *Do not allow product to reach ground water, water course or sewage system.*

13 Disposal considerations

Product:
Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:
Recommendation: *Disposal must be made according to official regulations.*

14 Transport information

DOT regulations:
Hazard class: -
Not regulated.

Land transport ADR/RID (cross-border):
ADR/RID class: -
Not regulated.

Maritime transport IMDG:
IMDG Class: -
Not regulated.

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: -
Not regulated.

15 Regulations

USA The following information relates to product regulation specific to the USA.

SARA (Superfund Amendments and Reauthorization Act)

Section 355 (extremely hazardous substances):
None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):	
7439-92-1	*lead*

TSCA (Toxic Substances Control Act):
All ingredients are listed.

California Proposition 65
Chemicals known to cause cancer:
WARNING: This product contains a chemical known to the State of California to cause cancer.

7439-92-1	*lead*

(Contd. on page 6)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/25/2003 Reviewed on 07/14/2003

Trade name: 256GS Sn55Pb45, Sn60Pb40, Sn62Pb38, Sn63Pb37, Sn65Pb35

(Contd. of page 5)

25013-16-5	tert-butyl-4-methoxyphenol
7440-43-9	cadmium
7440-02-0	nickel

Chemicals known to cause reproductive toxicity:
WARNING: This product contains a chemical known to the State of California to cause birth defects and/or other reproductive harm.

7439-92-1	lead
872-50-4	N-methyl-2-pyrrolidone
7440-43-9	cadmium

Carcinogenicity categories

EPA (Environmental Protection Agency)		
7439-92-1	lead	B2

IARC (International Agency for Research on Cancer)		
7439-92-1	lead	2B

NTP (National Toxicology Program)
None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

CANADA: The following information relates to product regulation specific to Canada.

Workplace Hazardous Materials Identification (WHMIS):
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS Classification:
D2A
D2B

Components on Ingredient List for WHMIS:
Rosin, polymerized
lead
tin

EUROPEAN UNION
The following information relates to product regulation specific to the directives of the Euopean Union.

Risk phrases:
Harmful by inhalation and if swallowed.
Danger of cumulative effects.
May cause sensitisation by skin contact.
Possible risk of impaired fertility.

(Contd. on page 7)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/25/2003 Reviewed on 07/14/2003

Trade name: 256GS Sn55Pb45, Sn60Pb40, Sn62Pb38, Sn63Pb37, Sn65Pb35

(Contd. of page 6)

Safety phrases:
Avoid exposure - obtain special instructions before use.
Keep locked up and out of the reach of children.
Avoid contact with skin.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Wear suitable gloves.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special labeling of certain preparations:
Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

16 Other information

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Kester extends no warranties, makes no representations and assumes no responsibilty as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Material Safety Data Sheet as a source for hazard information.

Department issuing MSDS: *Product Safety*
Contact: *Heather Holich, MSDS Coordinator* *Tel. (847)699-5755*

AMERWAY INC.
Quality Through People and Technology

Amerway Silver Solder Flux

Material Safety Data Sheet

Section 01	Identification
Information furnished by:	Amerway, Inc. 3701 Beale Avenue Altoona, PA 16601
Date effective:	1/01/08
Emergency phone:	1-814-944-0200
Chemtrec:	1-800-424-9300
Product or trade name:	Amerway Silver Solder Flux
Product Use:	Silver Soldering
Person to contact:	Terry Buck

Section 02	Constituents			
Chem	CAS	%Wt.	PEL/PPM	TLV/PPM
Zinc Chloride	7646-85-7	30-45	1 mg/m^3	1 mg/m^3
Ammonium Chloride	12125-02-09	5-15	10.0 mg/m^3	10.0 mg/m^3
Ammonium Biflouride	1341-49-7	2-7	2.5 mg/mg^3	2.5 mg/mg^3
Hydrochloric Acid	7647-01-0	3-6	5 ppm	5 ppm

All ingredients are reported in EPA and TSCA inventory.
Unlisted ingredients are considered non-toxic.
None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

Section 03	Physical Data
Melting Point	N/A
Boiling Point	212 F
Vapor Pressure	N/A
Vapor Density (air is 1)	N/A
Solubility in Water	100 %
Appearance & Color	Clear Liquid
Specific Gravity	1.5
Odor	Acidic
% Volatile	65%
pH	1.0
Evaporation Rate :(nBuAc=1)	6

Section 04	Fire and Explosion Hazard Data
Flash Point / Method Used	None
Flammable Limits	None
Extinguishing Media	N/A
Fire Fighting Equipment	Water or with non-flammable salts.
Special Precautions	None

Section 05	Reactivity Data
Stability	Stable
Conditions to Avoid	Inhalation of fumes.
Hazardous Polymerization	Will not occur.
Incompatibility	Alkalis
Hazardous Decomposition Products	None known.

Section 06	Spill, Leak and Disposal Procedures
Action to take for spills/leaks	Dilute with water.
Disposal method	Dispose of per federal, state and local regulations.

Section 07	Health Hazard Data
Eye	Higher concentrations can cause eye irritations.
Skin Contact	May cause skin irritation.
Skin Absorption	Will cause skin irritation.
Ingestion	Do not induce vomiting, give two glasses of milk or water, contact a physician.
Inhalation	Remove to fresh air, contact a physician.
Systemic & Other Effects	None known.
Section 08	First Aid Procedures
Eyes	Wash with water for 10 minutes, contact physician.
Skin	Wash with soap and water.
Ingestion	Do not induce vomiting, give two glasses of milk or water. Contact a physician.
Inhalation	Remove to fresh air, contact a physician.
Note to Physician	Salt solution of chlorine and fluorine.
Section 09	Special Handling Information
Ventilation	Fume hood or mechanical ventilation must be provided to maintain exposure levels below TLV's.
Respiratory Protection	Use NIOSH/OSHA approved respirator for dust and acid fumes.
Eye Protection	Wear safety goggles during use.
Skin Protection	Wear rubber apron and gloves.
Other	Follow NIOSH/OSHA health guidelines for chemical hazards.
Section 10	Special Precautions and Additional Information
Storage	Store in dry cool place.
Handling Information	When handling use proper safety procedures.

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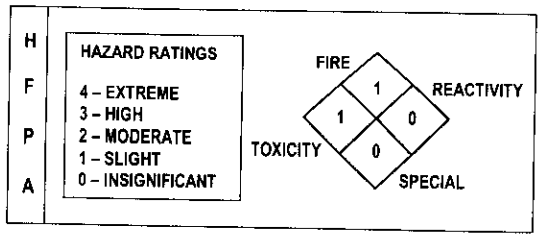
Material Safety Data Sheet



Section I – General Information

IDENTITY:	SNAKE OIL		
Manufacturer's Name:	General Pipe Cleaners, Div. of General Wire Spring Company	**Manufacturer's Phone Number:**	412-771-6300
Address:	1101 Thompson Avenue McKees Rocks, PA 15136	**24-hour Emergency Phone Number:**	1-800-535-5053
Shipping Classification:	Not DOT Regulated		

Section II – Ingredients

Principal Components	CAS#	Threshold Limit Value (units)
Mineral Seal Oil	64741-44-2	400 PPM
Calcium Petroleum Sulfonate	61789-86-4	TLV Not Established
Citropene Perfume (Trade Secret Per CFR 1910.1200 Title 39)		

Section III – Physical Data

Boiling Point:	450-610°F	**Specific Gravity (H_2O = 1):**	.832
Vapor Pressure (mm Hg.):	.1	**Melting Point:**	Liquid
Vapor Density (AIR = 1):	7.6	**Evaporation Rate:**	< .4
Solubility in Water:	Emulsifiable		
Appearance & Odor:	Amber liquid with Citrus/Pine odor		

Section IV – Fire & Explosion Hazard Data

Flash Point (Method Used):	> 212 TCC	**Flammable Limits:**		**LEL:** .7	**UEL:** 6.0
Extinguishing Media:	Carbon dioxide, chemical foam, dry chemical.				
Special Fire Fighting Procedures:	Full protective clothing including self-contained breathing apparatus.				
Unusual Fire & Explosion Hazards:	Carbon dioxide can be generated. Wet any near-by drums to keep cool.				

Date of Preparation: 05-16-06

Section V – Reactivity Data

Stability:		Unstable	**Conditions to Avoid:** Heat, sparks, and open flames.
	X	Stable	
Incompatability – Material to Avoid: Acids, alkalies, oxidizing, or reducing materials.			
Hazardous Decomposition or Byproducts: May liberate carbon monoxide and carbon dioxide.			
Hazardous Polymerization:		May Occur	**Conditions to Avoid:** Heat, sparks, and open flames.
	X	Will Not Occur	

Section VI – Health Hazard Data

OSHA Regulated: N/A	**Carcinogen – NTP Program:** N/A	**Carcinogen – IARC Program:** N/A

Health Hazards: Inhalation – Vapors are irritating to the eyes, nose, and mucous membranes. Eye Contact – Mist will irritate the eyes. Skin Contact – May be irritating after prolonged contact. Swallowed – Causes headaches, nausea, vomiting, and possibly unconsciousness.

Symptoms of Exposure: Inhalation – May cause headaches, nausea, vomiting, and dizziness. Eye – Mists will burn the eyes. Skin – May dry the skin. Swallowed – Causes headaches, nausea, vomiting, and possibly unconsciousness.

Medical Conditions Aggravated by Exposure: Pre-existing eye or skin disorders may be aggravated by exposure.

Primary Routes of Entry: Inhalation, Skin, Ingestion.

Emergency First Aid: Inhalation – Remove to fresh air, give artificial respiration if not breathing. Eyes – Flush eyes with plenty of water. Skin – Wash skin with soap and water. Swallowed – Do not induce vomiting. If conscious, drink plenty of water and get medical attention.

Section VII – Precautions for Safe Handling and Use

Spill Response: Wear protective clothing, including boots, apron, gloves, and self-contained breathing apparatus. For small spills – Mop or wipe up and dispose of in a DOT approved waste container. For large spills – Contain by diking with soil or other non-combustible absorbent material and pump into a DOT approved container.

Waste Disposal Method: Dispose of contaminated material used in cleaning up spills in a manner approved for this material. Consult appropriate Federal, State, Local regulatory agencies to ascertain proper disposal procedures.

Precautions for Handling and Storing: Keep away from heat, sparks, and flames. Store in a cool, dry, well-ventilated place away from incompatible materials. Electrically ground all equipment when handling this product. Keep containers closed when not in use.

Other Precautions: Containers, even those emptied, will retain product residue and vapors. Always obey hazard warnings.

Respiratory Protection (Specify Type): Wear a NIOSH approved respirator appropriate for these emission levels.

Section VIII – Control Measures

Ventilation: Local Exhaust	**Protective Gloves:** Rubber Gloves	**Eye Protection:** Chemical Goggles

Other Protective Clothing or Equipment: Long-sleeved shirt, trousers, rubber boots, rubber gloves, rubber apron. An eyewash and safety shower should be nearby.

Work/Hygienic Practices: Wash hands thoroughly.

MATERIAL SAFETY DATA SHEET

PLEASE CAREFULLY READ AND UNDERSTAND THIS MATERIAL SAFETY DATA SHEET BEFORE USING THIS PRODUCT

May be used to comply with OSHA's Hazards Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

SECTION I (IDENTIFICATION)

Manufacturer/Supplier Name: UNIWELD PRODUCTS, INC.
2850 Ravenswood Road
Fort Lauderdale, FL 33312

Emergency Phone No.: (954) 584-2000

Product Name(s): **PROPANE ODORIZED**

Product Classification: **LIQUIFIED PETROLEUM GAS (PARAFFINIC HYDROCARBONS)**

SECTION II (HAZARDOUS INGREDIENTS/IDENTITY INFORMATION)

Important: Propane may contain various percentages of these hazardous components, depending on the source of supply.

INGREDIENT	% WEIGHT	CAS NO.	EXPOSURE LIMIT (mg/m^3)	
			OSHA PEL/TWA	ACGIH TLV/TWA
PROPANE	85-100	74-98-6	1,000 PPM	
PROPYLENE	0-10	115-07-1		
BUTANE & HEAVIER	0-2.5	106-97-8	800 PPM	800 PPM
ETHANE	0-5	74-84-0		
ETHYL MERCAPTAN (ODORANT)	<0.1	75-08-1		

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Property	Value
Appearance and odor	Colorless gas, liquid under pressure. Mercaptan "rotten eggs" odor
Boiling point	-44 degrees F.
Evaporation rate (Butyl Acetate = 1)	<1 (diffuses readily)
Flash point	-156 degrees F.
Liquid to vapor expansion ratio	1:270
Molecular weight	44.096
Solubility in water	Slight
Specific gravity (liquid)	0.500 - 0.510 (Water = 1)
Specific gravity (vapor)	1.52 (Air = 1)
Vapor pressure (maximum)	208 PSIG @ 100 degrees F.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability limits Flammability limits by volume in air.
Lower 2.15 percent
Upper 9.6 percent

Ignition temperature Auto ignition temperature is 940 degrees Fahrenheit.

Extinguishing media Allow product to burn if source cannot be shut off safely.
Class B-C or A-B-C dry chemical or halon extinguishers can be used on small fires.
Apply water from a safe distance to cool containers, surrounding equipment, and structures.

Special fire-fighting procedures and precautions Extremely flammable. Containers may explode if not sufficiently cooled with water spray.
Evacuate surrounding area of unprotected personnel and isolate. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots) and a positive pressure NIOSH-approved self-contained breathing apparatus.

SECTION V - REACTIVITY DATA

Stability and hazardous polymerization This product is stable. Hazardous polymerization will not occur.

Conditions and materials Avoid heat, sparks, flame, and contact with strong oxidizing agents. Avoid buildups of static electricity. Prevent **to avoid** vapor accumulation.

Hazardous decomposition products Carbon monoxide and unidentified organic products may be formed during combustion.

SECTION VI - HEALTH HAZARD DATA

Purpose The health effects are consistent with requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Eye contact Direct contact with liquid propane can result in eye burns.

Skin contact Direct contact with liquid propane can result in skin burns (frostbite).

Inhalation This product is classified as a simple asphyxiant.
High vapor concentrations may produce a reversible central nervous system depression (anesthesia).
Higher concentrations may produce asphyxiation.
WARNING: DO NOT BREATHE FUMES!

Ingestion Ingestion is not likely.

Signs and symptoms Eye or skin burns (frostbite) as noted previously.
Early to moderate central nervous system depression may be evidenced by giddiness, headache, dizziness, and nausea. In extreme cases, unconsciousness may occur.
Asphyxiation may be noted by a sudden loss of consciousness. Death may quickly follow.

Aggravated medical conditions Caution is recommended for personnel with pre-existing central nervous system or chronic respiratory diseases.

Acute toxicity data Acute toxicity data is not applicable to this product.

Carcinogenicity This product is not classified as a carcinogen.
Occupational exposure limits See the table in section 2

Cardiac effects While there is no evidence that exposure to industrially acceptable levels of hydrocarbons have produced cardiac effects in humans, animal studies have shown that inhalation of high vapor levels of the components of this product have produced

CONTINUED ON THE BACK

cardiac sensitization. Such sensitization may cause fatal changes in heart rhythms. This latter effect was shown to be enhanced by hypoxia or the injection of adrenaline-like agents.

Effects of propylene Laboratory animals exposed to high levels of propylene for prolonged periods of time showed evidence of effects in the liver, kidneys, and nasal cavity.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Release, spill, or leak procedures

Warning! Extremely flammable.

Eliminate sources of ignition.
Isolate hazard area and deny entry to unnecessary or unprotected personnel.
Stay upwind and keep out of low areas.
Notify local fire department.
Disperse vapor clouds with water spray.
Shut off source of leak only if it can be done safely.

Training Train all personnel involved in handling propane in proper handling and operating procedures.
Document all training.

Handling and storing Handle and store propane in accordance with NFPA 58 and local fire codes.
Keep containers away from heat sources or temperatures exceeding 130 degrees Fahrenheit.
Do not drop or roll any container.
Store and transport containers with relief valves in vapor space.
Keep all container valves closed when not in use.
Keep protective caps (if applicable) on containers when not in use.

DOT cylinders Take these precautions when using DOT cylinders:
Periodically inspect and requalify DOT cylinders in accordance with DOT and NFPA 58 codes.
Store and use cylinders with valves off and the relief valves in the container vapor space.
Shut all valves and follow recommended procedures before exchanging cylinders.

Special precautions Containers, even those that have been emptied, can contain explosive vapors.
Do not cut, drill, grind, weld or perform similar operations on or near containers.

Propane odorization

Warning! Any smell of odorant, even a faint one, may indicate a dangerous situation.

Ethyl mercaptan is the preferred warning agent for propane. Although ethyl mercaptan has excellent warning properties, "It is recognized that no odorant will be completely effective as a warning agent in every circumstance" (NFPA 58 A-1-4.1, 1992 edition).

Instances in which odorants may lose their effectiveness include, but are not limited to the following:
Odor may fade due to chemical oxidation in improperly prepared new tanks and cylinders or from rust, air and water in used containers that have been allowed to stand open to the atmosphere.
Odor may be absorbed and adsorbed by the walls of containers and distribution systems.
Odor in the gas escaping from underground leaks may be absorbed by certain types of soils.
Effectiveness of the odorant may be reduced by cold temperatures.
Other odors, such as from cooking or from a musty basement, may mask or cover up the mercaptan odor in propane.
Exposure to the mercaptan odor of propane for extended periods of time may affect a person's ability to detect the odorant.
Physical disabilities or the use of alcohol, tobacco, or drugs may decrease a person's ability to detect the odorant.

WARNING: CALIFORNIA PROPOSITION 65: This product, when used for welding, soldering, brazing, cutting and other metal working or flame processes, produces fumes, particulates, residues and/or other by-products which contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION VIII - FIRE AND EXPLOSION HAZARDS

Flammability limits Flammability limits by volume in air.
Lower 2.15 percent
Upper 9.6 percent

Ignition temperature Auto ignition temperature is 940 degrees Fahrenheit.

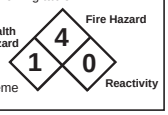
Extinguishing media Allow product to burn if source cannot be shut off safely.
Class B-C or A-B-C dry chemical or halon extinguishers can be used on small fires.
Apply water from a safe distance to cool containers, surrounding equipment, and structures.

Warning! Extremely flammable compressed gas.• Asphyxiant in high concentrations. • Skin contact with liquid causes burns similar to frostbite. • Ethyl mercaptan used as a warning agent may not be entirely effective in all situations. Read the warnings in section 7.

NFPA hazard rating Hazard ratings are in the following table

Health hazard = 1
Fire hazard = 4
Reactivity = 0

Where:
0 = Least
1 = Slight
2 = Moderate
3 = High
4 = Extreme



SECTION VIIII - EMERGENCY AND FIRST AID PROCEDURES

Purpose Follow these procedures in case of personal injuries resulting from use of this product.

Eye contact with liquid Flush eyes with water. Get medical attention.

Skin contact with liquid Flush with water. If frostbite or burn occurs, get medical attention.

Inhalation Remove victim to fresh air and provide oxygen if breathing is difficult.
Seek immediate medical attention if victim is not breathing. Give artificial respiration.

Ingestion Not applicable to this product.

SECTION X - EMPLOYEE PROTECTION

Respiratory protection Use a NIOSH-approved respirator as required when airborn exposure limits are exceeded.
In accord with 29 CFR 1910.134, use either an atmosphere supplying respirator or an air purifying respirator for organic vapors.

WARNING: DO NOT BREATHE FUMES!

Protective clothing Avoid liquid contact with eyes or skin.
Wear safety glasses or goggles as appropriate.
Wear protective clothing as appropriate.

Additional protective measures Use explosion-proof ventilation as required to control vapor concentrations.

SECTION XI - TRANSPORTATION REQUIREMENTS

DOT shipping name Liquefied Petroleum Gas

DOT classification Division 2.1 (Flammable Gas)

Other DOT requirements UN 1075, Hazardous Materials Guide Number 115.

SECTION XII - OTHER REGULATORY CONTROLS

EPA/TSCA The components of this product are listed on the EPA/TSCA inventory of chemical substances.

EPA Hazard Classification This product is classified by 40 CFR 372 (SARA Section 313) as:

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
XXX		XXX	XXX	

Ozone-depleting substances This product does not contain, nor was it directly manufactured with, any class I or class II ozone-depleting substances.

RCRA Information This product is not subject to 40CFR 268.30 ban on the disposal of hazardous wastes.
If this product becomes a waste material, it would be an ignitable hazardous waste, having a waste code number D0001.
Refer to latest EPA or state regulations regarding proper disposal. Under EPA-RCRA, containers are considered hazardous unless depressurized to a pressure approaching atmospheric. Depressurize containers at a controlled rate to a flare.

State regulatory information The ingredients in this product are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements.
Contact the appropriate agency in your state for details on your regulatory requirements.

Uniweld Products, Inc. believes this data to be accurate and to reflect qualified expert opinion regarding current research. Uniweld Products, Inc. cannot make any expressed or implied warranty as to this information.

MAPP® Gas

THERMADYNE

VICTOR®

MATERIAL SAFETY DATA SHEET

CHEMTREC Phone No. (800) 424 - 9300

Date Prepared: January 1, 1991
Date Revised: March 1, 2007

Form Number: 0056-1296
Core Part No: 0916-0009

Victor Equipment Company
2800 Airport Road
Denton, Texas 76207

(940) 566 - 2000
Fax: (940) 381 - 1265

This MSDS is based on air/fuel or oxy/fuel process. There may be other cautions for electric process.

Material Safety Data Sheet

SECTION I - MATERIAL IDENTIFICATION

Product Name: Liquified Petroleum Gas with Methyl Acetylene-Propadien (0916-0009)
Product Use: Welding Fuel

SECTION II - HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200) EXPOSURE LIMITS: 8 HR. TWA

	OSHA PEL	ACGIH TLV
Methyl acetylene-propadiene (CAS # 56960-91-9)	1000 ppm	1000 ppm
Liquified petroleum gas (CAS #68476-85-7)	1000 ppm	1000 ppm

SECTION III - HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW: Flammable gas. May cause flash fire or explosion. Contents under pressure. Harmful if inhaled.

POTENTIAL HEALTH EFFECTS:

INHALATION: Can cause severe central nervous system depression (including unconsciousness). May cause headaches and dizziness. May cause asphyxiation in high concentrations. Prolonged inhalation may be harmful.

EYE CONTACT: Direct contact with liquified gas can result in eye burns.

SKIN CONTACT: No hazard in normal industrial use.

INGESTION: Ingestion not likely, product is a gas at room temperature.

CHRONIC: Unknown.

CARCINOGENICITY: LISTED IN NTP? No IARC? No OSHA Regulated? No

SECTION IV - FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration and/or give oxygen by trained personnel. Seek medical attention.

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

SKIN CONTACT: Avoid breathing vapors from heated material.

INGESTION: No emergency care anticipated.

SECTION V - FIRE FIGHTING MEASURES

Flashpoint (Method): -144°F (C.C.)
Flammable Limits: **Lower:** 3.0 **Upper:** 11.0
Autoignition Temperature: 850°F

GENERAL HAZARD: Flammable gas. Can readily form explosive mixtures at or above the flashpoint. Flashback along vapor trail possible.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire from a safe distance. DO NOT extinguish a gas fire unless effective immediate shut-off of gas flow is possible. Explosive vapors could form. As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

EXTINGUISHING MEDIA: DO NOT EXTINGUISH. Use water to cool containers. If safe to do, shut off source of fuel. Increase ventilation to prevent flammable air mixture.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, oxides of carbon.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources including internal combustion engines and power tools. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing.

SECTION VII - HANDLING AND STORAGE

Use spark-proof tools and explosion proof equipment. Ground and bond containers when transferring material. Do not reuse this container. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly sealed and promptly returned to a drum reconditioner, or disposed of properly. Keep away from heat, sparks and flame. Store in a cool dry place.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Wear safety glasses with side shields (or goggles) and a face shield.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	97 psig @ 70°F	**Vapor Density (Air=1):**	>1
Specific Gravity:	0.57 (liquid)	**Evaporation Rate**	
Solubility in Water:	Negligible	**(n-Butyl Acetate=1):**	NA
pH:	NA	**Freezing Point:**	ND
Boiling Point:	-54°F		

Appearance & Odor: Colorless gas with characteristic, pungent odor.

SECTION X - STABILITY AND REACTIVITY

GENERAL: Stable

INCOMPATIBLE MATERIALS: Natural rubber, copper alloys >65%, silver, mercury, halogens, acids, potassium, metallic sodium, oxidizers.

CONDITIONS TO AVOID: Heat, ignition sources.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

No data available.

SECTION XII - ECOLOGICAL INFORMATION

Not applicable.

SECTION XIII - DISPOSAL CONSIDERATIONS

Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with valve protection cap in place to supplier for proper disposal.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Methyl Acetylene and Propadiene Mixtures, Stabilized

HAZARD CLASS: Flammable gas (2.1)
IDENTIFICATION NUMBER: UN 1060
DOT Emergency Guide #: 22
Reportable Quantity (RQ): None

SECTION XV - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act) All components are listed on the TSCA inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):
None. We recommend you contact local authorities for other reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act):
311/312 Hazard Categories: Acute, Ignitable, Sudden Release of Pressure.

313 Reportable Ingredients: None

SECTION XVI - OTHER INFORMATION

PREPARED BY: TALEM, Inc. - Technical Services Division (817) 335 - 1186

FOOTNOTES:
NA - Not Applicable NE - Data Not Established CS - Cancer Suspect Agent OX - Oxidizer ND - No Data Cor - Corrosive
CALC - Calculated EST - Estimated STEL - Short Term Exposure Limit TLV - Threshold Limit Value
PEL - Permissible Exposure Limit TWA - Time Weighted Average, 8 hours

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. NEITHER THE SELLER NOR PREPARER MAKES ANY WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE INFORMATION PRESENTED.

Material Safety Data Sheet

Section 1 Product and Company Identification

Product Name: **BLOC-IT Heat Sink Paste**
Revision #: 2.0 **Date Prepared:** May 23, 1991 **Date Revised:** June 14, 2004

Manufacturer:

LA-CO INDUSTRIES, Inc./*Markal* Co.

1201 Pratt Blvd.
Elk Grove Village, IL, USA 60007-5746
Information Telephone: 847-956-7600
Emergency Telephone: Call CHEMTREC
USA 800-424-9300
International (Call Collect) 1-703-527-3887
Chemical Formula: Mixture
CAS No.: Not Applicable. **Derivation:** Not Applicable.
Synonyms: Not Applicable.
General Use: Heat sink paste for protecting heat sensitive areas when soldering, brazing or welding.

Supplier/Importer:

Section 2 Composition/Information on Ingredients

Ingredient	CAS No.	%

No Hazardous ingredients according to the U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200, Canadian WHMIS regulations, British CHIP2 regulation 6, and Australian Regulations for the Control of Workplace Hazardous Substances.

(For Section 2 footnotes: See Section 15)

Section 3 Hazards Identification

EMERGENCY OVERVIEW: None.

POTENTIAL HEALTH EFFECTS
Primary Exposure Routes: Not Applicable.
Acute Effects
Eyes: Not Applicable.
Skin: Not Applicable.
Ingestion: Not Applicable.
Inhalation: Not Applicable.
Chronic Effects
Eyes: Not Applicable.
Skin: Not Applicable.
Ingestion: Not Applicable.
Inhalation: Not Applicable.
Carcinogenicity: Not Applicable.
Target Organ Effects: Not Applicable.
Medical Conditions Aggravated by Long-Term Exposure: Not Determined.
Other Information: Not Applicable.

Section 4 First Aid

Eye Contact: Flush with water.
Skin Contact: Rinse with water.
Ingestion: Not Applicable.
Inhalation: Not Applicable.
Other Information: Not Applicable.

Section 5 Fire Fighting Measures

Flash Point (method): Not Applicable.
Autoignition Temperature: Not Applicable.
LEL: Not Applicable. **UEL:** Not Applicable.
Flammability Classification: Not Applicable.
Extinguishing Media: Not Applicable.
Hazardous Combustion Products: Possibly carbon monoxide.
Unusual Fire or Explosion Hazards: Not Applicable.
Fire-Fighting Instructions/Equipment: Keep personnel removed and upwind of any fire. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

Section 6 Accidental Release Measures

Use recommended personal protective equipment (see Section 8).
Spill: CAUTION: Spill area may be slippery. Scrape up bulk. Mop spill area with water.

Section 7 Handling and Storage

Handling Precautions: Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling.
Storage Requirements: Store away from incompatible chemicals (see Sec. 10). Store in a cool, dry area.

Section 8 Exposure Controls/Personal Protection

Eye/Face Protection: Suitable for related activities where this product is used.
Skin/Hand Protection: Suitable for related activities where this product is used.
Respiratory Protection: Suitable for related activities where this product is used.
Other Equipment: Eye wash and safety shower. Suitable for related activities where this product is used.
Engineering Controls: Suitable for related activities where this product is used.
Administrative Controls: Users of this product must be properly trained and qualified in its use.
Other Information: No food or beverage should be consumed in the work area. Wash thoroughly before eating, drinking, or smoking.

Section 9 Physical and Chemical Properties

Appearance/Physical State: Light pink to beige paste.
Odor: Negligible.
Odor Threshold (ppm): Not Determined.
Specific Gravity (H_2O = 1): 1.0 to 1.1

Solubility - Water: Soluble
- Fat: Insoluble
Coefficient of Water/Oil Solubility: >>1
Partition Coefficient (n-octanol/water): <<1
pH: Neutral
Melting Point: Not Determined.
Boiling Point: 212^0F/100^0C
Vapor Pressure (mm Hg at 20^0C): Not Determined.
Vapor Density (Air = 1): Not Determined.
Evaporation Rate (n-BuAc=1): <1
V.O.C.: 0%(w/w), 0%(v/v), 0 lbs./gal.(U.S.), 0 kg/l
Flash Point (method): (see Section 5)
Autoignition Temperature: (see Section 5)
Flammability Classification: (see Section 5)
Unusual Fire or Explosion Hazards: (see Section 5)
Oxidizing Properties: Not Applicable.
Other Information: None.
Note: The physical data represented above are typical values and should not be construed as a specification.

Section 10 Stability and Reactivity

Chemical Stability: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: Not Applicable.
Chemicals to Avoid: Not Determined.
Hazardous Decomposition Products (non-thermal): Not Applicable.

Section 11 Toxicological Information

Sensitization to Product: Not Applicable.
Irritancy of Product: Not Applicable.
Reproductive Toxicity: Not Applicable.
Teratogenicity: Not Applicable.
Mutagenicity: Not Applicable.

Further hazard information, if applicable, may be found in Section 3. Toxicological information regarding individual ingredients, if applicable, may be found in Section 2.

Section 12 Ecological Information

Mobility: Not Determined.
Degradability: Not Determined.
Accumulation: Not Determined.
Ecotoxicity: Not Determined.
Other Adverse Effects: Not Determined.

Section 13 Disposal Considerations

Dispose of in accordance with all applicable regulations.

Section 14 Transport Information

D.O.T. (U.S.)
Proper Shipping Name: Not Regulated.
Hazard Class or Division: Not Regulated.
Hazard Label: Not Regulated.
I.D. Number: Not Regulated.
TDG (Canada): Not Regulated.
IATA: Not Regulated.
ICAO: Not Regulated.
IMO: Not Regulated.
Australian Code for the Transport of Dangerous Goods
Dangerous Goods Class and Subsidiary Risk: Not Regulated.

Section 15 Regulatory Information

Footnotes for Section 2:
1 Subject to the reporting requirements of SARA Title III, Section 313.
2 Appears on the California Safe Drinking Water and Toxic Enforcement Act (Prop. 65) Substances List.
3 Appears on the Massachusetts Substances List.
4 Appears on the New Jersey Right-To-Know Hazardous Substances List.
5 Appears on the Pennsylvania Hazardous Substances List.
6 Appears on the Canadian WHMIS Ingredient Disclosure List.

U.S.A.

OSHA Hazard Status: This product is not considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200).
EPA SARA sec. 311/312 Hazard Categories: Not Applicable.
Toxic Substances Control Act (TSCA): All ingredients contained in this product are listed on the U.S. EPA TSCA Chemical Substance Inventory.
HMIS Rating: Health 0, Flammability 0, Reactivity 0
NFPA Rating: Health 0, Flammability 0, Reactivity 0

CANADA

WHMIS Status: This product is not considered to be hazardous as defined by Canadian WHMIS Controlled Products Regulations.
WHMIS Rating: None.
WHMIS Risk Phrases: None.
WHMIS Precautionary Statements: None.
Domestic Substances List (DSL): All ingredients contained in this product are listed on the Canadian EPA (CEPA) Domestic Substances List (DSL).

E.U.

European Inventory of Existing Chemical Substances (EINECS): All ingredients contained in this product are listed on the European Inventory of Existing Chemical Substances (EINECS).
Categories of Danger (Labeling Information): None.
Risk (R) Phrases: None.
Safety (S) Phrases: Keep out of reach of children (S2

AUSTRALIA

Worksafe Australia Status: This product is not classified as hazardous according to criteria of Worksafe Australia.
HAZCHEM Code: None allocated.
Poisons Schedule Number: None allocated.

Further regulatory information regarding individual ingredients, if applicable, may be found in Section 2.

This product has been classified in accordance with the hazard criteria of the U.S. OSHA Hazard Communication Standard, the Canadian WHMIS Controlled Products Regulations, the British CHIP2 regulation 6, and the Australian NMRCWHS. This MSDS contains the information required by the above regulations and conforms to ANSI Z400.1-1993.

Section 16 Other Information

MSDS Prepared By: Director of Chemical Safety

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, LA-CO Industries, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will LA-CO Industries, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

MATERIAL SAFETY DATA SHEET
S O S PRODUCTS COMPANY INC
4th and Railroad Streets
East Greenville, Pa. 18041
Phone (215-679-6262 (215)-679-6263

SECTION I - GENERAL INFORMATION

Product Code: PVCC Revision Date:08/06/07
Identification: PVC CEMENT MEDIUM BODY

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT:	OSHA PEL	ACG/H TLV	RATING H-F-R	CAS. NO
TETRAHYDROFURAN	200 PPM	200 PPM	2-3-1	109-99-9
*METHYL ETHYL KETONE	200 PPM	200 PPM	1-3-0	78-93-3
CYCLOHEXANONE	25 PPM	25 PPM	1-2-0	108-94-1
*ACETONE	750 PPM	750 PPM	1-3-0	67-64-1

*SUBJECT TO REPORTING REQUIREMENTS OF SARA TITLE III SECTIION 313.

Carcinogenicity: This product is NOT considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: 133 F Specific Gravity: (Water = 1) 0.91
Vapor Pressure: (mm Hg) 182 Melting Point: N/A
Vapor Density: (Air = 1) 2.5 Evaporation Rate: 8
Solubility in Water: NIL (Butyl Acetate = 1)
Odor and Appearance: COLORED LIQUID, ACETONE-LIKE ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: -4 F LEL: 2%
Flammable Limits: N/A UEL: 13%
Extinguishing Media: DRY CHEMICAL OR CARBON DIOXIDE OR FOAM.
Special Fire Fighting Procedures: DIRECT EXTINGUISHER AT BASE OF FLAMES.
Unusual Fire and Explosion Hazards: VAPOR HEAVIER THAN AIR & MAY TRAVEL ALONG FLOOR OR GROUND TO IGNITION SOURCES FROM USE AREA.

SECTION V - REACTIVITY DATA

This product is STABLE.
Conditions to avoid: KEEP IN CLOSED CONTAINERS, AWAY FROM SPARKS &/OR FLAME.
Incompatibility: STRONG OXIDIZERS.
Hazardous Decomposition: CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE.
Hazardous Polymerization: WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA PAGE 2

Routes of Entry: Inhalation? YES - PRIMARY
Skin? YES - PRIMARY
Ingestion? YES - SECONDARY

Health Hazards (Acute and Chronic):
BREATHING: EXCESSIVE INHALATION CAN CAUSE NASAL & RESPIRATORY IRRITATION & CENTRAL NERVOUS SYSTEM DEFECTS. SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, BURNS IF NOT REMOVED. CHRONIC OVEREXPOSURE HAS APPARANTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LAB ANIMALS: LIVER ABNORMALITIES, KIDNEY, LUNG, & BRAIN DAMAGE.

Carcinogenicity: NTP? NO
IARC Monographs? NO
OSHA Regulated? NO

Signs and Symptoms of Exposure:
INHALATION: DIZZINESS, HEADACHE, NAUSEA.
SKIN: IRRITATION, DEFATTING.
EYES: IRRITATION, REDNESS.

Medical Conditions Generally Aggravated by Exposure: NO INFORMATION AVAILABLE.

Emergency and First Aid Procedures:
INHALATION: REMOVE TO FRESH AIR. SKIN: FLUSH WITH WATER & REMOVE CONTAMINATED CLOTHING. EYES: FLUSH REPEATEDLY WITH WATER.

SECTION VII - HANDLING PRECAUTIONS

Steps to be Taken if Material is Released or Spilled:
ELIMINATE IGNITION SOURCES, FLAMES, PILOT LIGHTS & TURN OFF ELECTRIC MOTORS. ABSORB LIQUID ON RAGS OR PAPER TOWELS & REMOVE TO OUTDOORS. VENTILATE AREA.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, LOCAL REGULATIONS.

Precautions to be Taken in Handling and Storage:
STORE IN COOL AREA AWAY FROM PILOT LIGHTS & IGNITION SOURCES.

Other Precautions: KEEP CONTAINER CLOSED WHEN NOT IN USE.

SECTION VIII - CONTROL MEASURES

Respiratory Protection:
USE NIOSH APPROVED RESPIRATOR IF TLV EZPOSUER LIMITS ARE EXCEEDED.

Ventilation Required: LOCAL EXHAUST: OPEN DOORS & WINDOWS. USE ONLY IN A WELL-VENTILATED AREA. USE MECHANICAL EXHAUST IF NECESSARY TO MAINTAIN EXPOSURE BELOW TLV.

Protective Gloves: WEAR RUBBER GLOVES IF EXCESSIVE SKIN CONTACT MAY OCCUR.

Eye Protection: WEAR EYE PROTECTION IF SPLASHING OF PRODUCT IS LIKELY.
Other Protective Equipment: NONE.
Work/Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

The above information pertains to the product as it is currently formulated and is based upon the information available at this time. Additions of reducers or other additives to this product may substantially alter the composition and subsequent hazards of the product. Since conditions of use are outside of our control, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

Section 1 - Manufacturer Information

Manufacturer/Distributor
IMS Company
10373 Stafford Road
Chagrin Falls, OH 44023-5296
WEB: http://www.imscompany.com

Emergency Phone # 800-424-9300
Prepared by Safety Advisor
Prepared/Revised February 28, 2007
Sales: sales@imscompany.com

Trade Names .....Silicone Grease

Part Numbers 100585	1 gallon can	Replaces AER1-G128-G
100586	5.3 ounce tube	Replaces AER1-G053-T
100830	2 ounce tube	Replaces STXX-SG2

Hazardous Material Information System

Health .....1 Flammability.....1 Reactivity .....0 Protection.....X

* Chronic (Accumulates)

0 Normal use Material	0 Will Not Burn	0 Stable	X = Consult the
1 Slight Hazard (temporary)	1 Possible to Burn	1 Unstable if Heated	MSDS and
2 Health Affected (lengthy)	2 Burns if Heated	2 Violent Chemical Change	your supervisor
3 Extreme Danger	3 Easily Burns	3 Shock and Heat Sensitive	for your special
4 Severe or Fatal	4 Very Easily Burns	4 May Explode	workplace need

NOTE The HMIS may not be enough hazard information for this chemical in all workplaces. The HMIS system requires employee training about the system and about information in this MSDS.

Section 2 - Ingredients

Chemical/Common Name	CAS-Number	%	PEL-OSHA	TLV-ACGIH
Silica, Amorphous Fumed	7631-86-9	0.1 to 20	6 mg/m^3	TWA 10 mg/m^3 (2)
Polydimethylsiloxane	63148-62-9	60 to 80	(1)	(1)
Dimethyl Siloxane, hydro-terminated	70131-67-8	0.1 to 10	(1)	(1)

(1) None Established
(2) Total dust

Does this product contain carcinogens (NTP, IARC, or OSHA)? No

Section 3 - Health Data

HEALTH EFFECTS - (Acute and Chronic)

Ingestion low ingestion hazard in normal use. Large amounts may cause digestive discomfort, but no known injury.

Inhalation No significant effects expected from a single short-term exposure.

Eye Direct contact could cause temporary discomfort with mild redness and dryness similar to windburn.

Skin No significant irritation expected from a single short-term exposure.

PRIMARY ROUTES OF ENTRY Inhalation, Skin

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
No known applicable information.

EMERGENCY FIRST AID PROCEDURES

Eye Contact Immediately flush thoroughly with water.

Skin Contact Wipe off and flush with water.

Inhalation No first aid should be needed.

Ingestion No first aid should be needed.

Section 4 - Chemical Data

Boiling Point (F)	> 95° F (35° C)	Specific Gravity (Water=1)	1.1
Vapor Pressure (PSIG)	NA	Percent Volatile by Weight (%)	NA
Vapor Density (Air=1)	NA	Evaporation Rate (Ether)	NA
Solubility in Water	NA	Viscosity	500,000 cSt

Appearance and Odor Information Viscous liquid (paste-like), translucent white, some odor

Section 5 - Physical Data

Flash Point (CC) ..... > 214° F (101° C) Flammable Limits ..... LEL = NA UEL = NA

Extinguishing Media Water spray, water fog, carbon dioxide, dry chemical, foam.

Special Fire Fighting Procedures Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep exposed containers cool.

Unusual Fire and Explosion Hazards None known.

Incompatibility (Materials to Avoid) Oxidizing material can cause a reaction.

Hazardous Decomposition Products Silicon Dioxide, Carbon oxides, traces of incompletely burned carbon products, formaldehyde.

NOTICE

This product contains methylpolysiloxanes, which when heated to temperatures above 300° F (150° C), in the presence of air, can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, eye and throat irritant, and an acute toxicant. Vapors irritate eyes, nose, and throat. Safe handing conditions may be maintained by keeping vapor concentrations within the OSHA permissible exposure limit for formaldehyde. (Note Product does not contain formaldehyde).

Will Hazardous Polymerization Occur? No

Conditions to Avoid for Polymerization NA

Is the Product Stable? Yes

Conditions to Avoid for Stability NA

Section 6 - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled Small spill and general procedure; remove product and use absorbent material to take care of any oil-like residues. Large and unusual conditions; determine whether to evacuate or isolate the areas according to your local emergency plan. Observe all personal protective equipment recommendations. For large spills, provide diking or other appropriate containment to keep material from spreading. Clean up remaining materials as appropriate since silicone materials, even in small quantities, present a slip hazard.

Final cleaning may require use of steam, solvents, or detergents. Dispose of saturated absorbent or cleaning materials in a sealed container, or totally exposed to air, since spontaneous heating – combustion may occur.

Waste Disposal Methods Not classified as a hazardous waste. If uncontaminated, use as appropriate. If not useable, mix with absorbent materials such dried clay or absorbent pads, or set out to harden in open air – may take a long time, and send to landfill. Follow local, State and Federal disposal procedures.

Section 7 - Exposure Control Information

Ventilation No local exhaust should be needed. Mechanical (general) ventilation recommended.

Respiratory Protection None should be needed if not sprayed. If sprayed, use appropriated mist respirator. Consult with your safety equipment supplier.

Protective Gloves Where prolonged or repeated contact with the spray mist or the deposited product is likely, the use of impervious gloves (for example neoprene or nitrile) is indicated.

Other Protective Equipment If contact with the material in any manner is likely, eye protection is recommended. Chemical Monogoggles or safety glasses with side shields and a face shield will provide protection in most situations. Do not wear contact lenses.

Other Engineering Controls To determine exposure levels, monitoring should be performed

Work Practices Do not use in confined or closed space. Ventilation should maintain the concentration of the product or its components below the TLV/PEL value.

Hygienic Practices Wash thoroughly before eating or smoking after using this or any chemical product. This product transferred to a lighted cigarette will result in the hazardous decomposition products. It is good practice to remove large amount of any chemical from the skin as soon as practical.

Section 8 - Special Precautions

Precautions to be Taken in Handling and Storage Avoid spreading onto red hot surfaces, which may cause decomposition.

Maintenance Precautions Do not remove or deface label.

Additional Comments

CAUTION Intentional misuse of this chemical product, as with any industrial chemical, in contact with the body can be harmful or fatal. This includes such things as deliberately breathing, placing in mouth, swallowing, placing on skin, or any other body contact, or repeated, or continuous contact.

IMS provides this information in good faith, but makes no representation as to its comprehensiveness or its accuracy. This document is offered as a guide to a trained person, for appropriate precautionary handling. Persons using the product and receiving the information must exercise independent judgment in determining the appropriateness of the use and the safety information for their particular purpose. IMS MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT. ACCORDINGLY, IMS WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE ON THIS INFORMATION.

MATERIAL SAFETY DATA SHEET
S O S PRODUCTS COMPANY INC
P. O. Box 47
East Greenville, Pa. 18041
Phone (215)-679-6262 (215)-679-6263 PAGE 1

SECTION I - GENERAL INFORMATION

Product Code: TFD Revision Date: 08/06/07

SECTION II - HAZARDOUS INGREDIENTS

This product is not classified as hazardous in accordance with OSHA 1910.1200

Carcinogenicity: This product is NOT considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: N/A Specific Gravity: 1.55
Vapor Pressure: N/A Melting Point: N/A
Vapor Density: N/A Evaporation Rate: N/A
N/A Evaporation Rate: N/A
Solubility in Water: NOT SOLUBLE
Odor and Appearance: WHITE PASTE WITH PLEASANT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A LEL: N/A
Flammable Limits: N/A UEL: N/A

Extinguishing Media: DRY CHEMICAL, FOAM, CARBON DIOXIDE

Special Fire Fighting Procedures:
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

Unusual Fire and Explosion Hazards: TOXIC FUMES GIVEN OFF ABOVE 800 DEG F.

SECTION V - REACTIVITY DATA

This product is STABLE.
Conditions to avoid: DIRECT CONTACT WITH OPEN FLAME.
Incompatibility: SODIUM POTASSIUM ALLOY
Hazardous Decomposition: FLUOROCARBON GASES PRESENT IN TEFLON DECOMPOSITION
Hazardous Polymerization WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

Routes of Entry: Inhalation? NO
Skin? YES - PRIMARY
Ingestion? YES - SECONDARY

Health Hazards (Acute and Chronic): NONE

Carcinogenicity: NTP? NO
IARC Monographs? NO
OSHA Regulated? NO

Signs and Symptoms of Exposure: NONE

Medical Conditions Generally Aggravated by Exposure: NONE KNOWN

Emergency and First Aid Procedures:
SKIN: WASH WITH SOAP & WATER THOROUGHLY.
EYES: FLUSH 15 MINUTES WITH WATER.
INGESTION: DO NOT INDUCE VOMITING. CALL PHYSICIAN.

SECTION VII - HANDLING PRECAUTIONS

Steps to be Taken if Material is Released or Spilled:
USE ABSORBENT MATERIAL & SWEEP UP.

Waste Disposal Method:
NON-HAZARDOUS LANDFILL. COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Precautions to be Taken in Handling and Storage: NONE

Other Precautions: KEEP AWAY FROM DIRECT CONTACT WITH SPARKS & OPEN FLAME.

SECTION VII - CONTROL MEASURES

Respiratory Protection: NONE REQUIRED FOR NORMAL USE.
Ventilation Required: NORMAL VENTILATION
Protective Gloves: WEAR RUBBER GLOVES
Eye Protection: WEAR SAFETY GOGGLES
Other Protective Equipment: NONE REQUIRED FOR NORMAL USE.
Work/Hygienic Practices: WASH THOROUGHLY WITH SOAP & WATER AFTER USING.

The above information pertains to the product as it is currently formulated and is based upon the information available at this time. Additions of reducers or other additives to this product may substantially alter the composition and subsequent hazards of the product. Since conditions of use are outside of our control, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

Wolverine
Joining Technologies

Code: SN-PB
Date: 17 NOV 1997
Revised: 01 NOV 2004
Printed: 01 NOV 2004

WOLVERINE JOINING TECHNOLOGIES, LLC.

MATERIAL SAFETY DATA SHEET

Product: SN-PB, 95/5, 40/60, 45/55, 50/50, 60/40, 30478, 30486, 30494, 34727, 35445

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name : TIN/LEAD SOLDER ALLOY
Chemical Name : TIN/LEAD ALLOY
Formula : Sn-Pb
Product CAS No. : CHEMICAL MIXTURE
Product Use : Welding/Brazing/Soldering

Supplier : WOLVERINE JOINING TECHNOLOGIES, LLC.
Address : 235 KILVERT STREET
City, St, Zip : WARWICK, RI 02886
Phone : 1-401-739-9550

FOR CHEMICAL EMERGENCY CALL CHEMTREC (24 HOURS):
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)
1-703-527-3887 (Outside Above Area)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	% Wt.
TIN	7440-31-5	5-95
LEAD	7439-92-1	5-95

INGREDIENT NOTES

NOTE: The percentage by weight values reported for the ingredients in this product represent approximate formulation values. See Section 8 for Exposure Limits and Section 11 for Toxicological Information.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Silver to grey metallic solid

Odorless

Flash Point: Not Applicable

Contains SUSPECT CANCER HAZARD - Risk of cancer depends on route, duration and level of exposure.
Overexposure by ingestion or inhalation may cause headache, dizziness, hypertension, and kidney, blood, nervous and reproductive system disorders (LEAD poisoning).
Prolonged or repeated inhalation of dust or fume may cause lung injury.
May cause eye, skin and respiratory tract irritation.
Not a fire or explosion hazard in solid form. Finely divided dust may ignite and burn rapidly when mixed with air in the proper proportions.
Toxic metal fumes may be released in a fire situation.

ROUTES OF ENTRY

Eyes? YES Skin? YES Inhalation? YES Ingestion? YES

POTENTIAL HEALTH EFFECTS

EYE CONTACT may cause irritation.

SKIN CONTACT may cause irritation.

INHALATION may cause upper respiratory tract irritation. Prolonged or repeated exposure to LEAD fumes may cause LEAD poisoning. Early symptoms are abdominal pain, vomiting, diarrhea, fatigue, disturbance of sleep, and constipation, with more severe exposures followed by colic, anemia and neuritis (nerve inflammation). Prolonged overexposure can severely damage red blood cell formation, kidneys and nervous system. Other symptoms include loss of appetite, metallic taste in mouth, anxiety, pallor, headache, dizziness, and hypertension. The OSHA LEAD Standard reports that LEAD may impair the reproductive system of both men and women. Damage may also be caused to the unborn fetus.

INGESTION: May cause the same effects as detailed under inhalation.

NOTE: The potential health effects described above only apply if dust or fume is formed.

CARCINOGENICITY

NTP? NO IARC? YES OSHA? NO

In evaluating LEAD and INORGANIC LEAD COMPOUNDS, the International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence of carcinogenicity to experimental animals and inadequate evidence of carcinogenicity to humans (Group 2B). However, the National Toxicology Program (NTP) does not concur with the IARC assessment and lists only lead acetate and lead phosphate as substances which may reasonably be anticipated to be carcinogenic. The American Conference of Governmental Industrial Hygienists (ACGIH) has classified lead and inorganic lead compounds as animal carcinogens (A3). The lead compound in this product has not been specifically identified as a possible carcinogen.

CHRONIC HEALTH HAZARDS

Refer to Potential Health Effects and Carcinogenicity.

Prolonged or repeated inhalation may cause a benign pneumoconiosis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

May adversely affect pre-existing medical conditions such as respiratory, diseases of the blood forming organs, kidneys, nervous system and possibly reproductive system disorders.

NOTE: See Section 8 for Exposure Limits, Section 11 for Toxicological Information and Section 12 for Ecological Information.

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Flush eyes with plenty of water. If irritation develops, call a physician.

SKIN CONTACT: Flush with plenty of water. If irritation persists, call a physician.

INHALATION: If exposed to excessive levels of metal fumes, remove to fresh air and seek medical attention.

INGESTION: If a person is conscious, give plenty of water. Do not induce vomiting. Obtain medical attention immediately for treatment of possible LEAD poisoning.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: Not Applicable
Auto-Ignition: Not Applicable
LEL: Not Applicable
UEL: Not Applicable

NFPA HAZARD CLASSIFICATION

Health: 2 Flammable: 0 Reactivity: 0

HMIS HAZARD CLASSIFICATION

Health: 2* Flammable: 0 Reactivity: 0 Special: B

* Indicates the possibility of chronic health effects. See Chronic Health Hazards in Section 3 for more information.

EXTINGUISHING MEDIA

Use carbon dioxide, chemical foam or dry chemical. Use any means for extinguishing surrounding fire.

Do NOT use water on metal fires.

SPECIAL FIRE FIGHTING PROCEDURES

Wear NIOSH/MSHA approved positive-pressure self-contained breathing apparatus and protective clothing as specified in 29 CFR 1910.156.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not a fire or explosion hazard in solid form. Finely divided dust may ignite and burn rapidly when mixed with air in the proper proportions. Toxic metal fumes may be released in a fire situation.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Contain spillage and scoop up or vacuum. Avoid dusting. Notification of the National Response Center (800/424-8802) may be required. Refer to EPA, DOT and applicable state and local regulations for current response information.

It is recommended that each user establish a spill prevention, control and countermeasure plan (SPCC). Such plan should include procedures applicable to proper storage, control and clean-up of spills, including reuse or disposal as appropriate (see Section 13: Disposal Considerations).

NOTE In the event of an accidental release of this material, the above procedures should be followed. Additionally, proper exposure controls and personal protection equipment should be used (see Section 8: Exposure Control/Personal Protection), and disposal of the material should be in accordance with Section 13: Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

Wash thoroughly after handling.
Store in a cool, dry location away from incompatible materials.

NOTE: Consult the most recent OSHA LEAD Standard (1910.1025) and its attachments, appendices, etc., for full requirements, some of which are not covered in this Material Safety Data Sheet.

Avoid contact with any dusts, mists or fumes resulting from the use of this product.

Do not eat, drink, or smoke in work area.

Use only with adequate ventilation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS INGREDIENT	PEL-OSHA	TLV-ACGIH
TIN CAS NO.: 7440-31-5	2 mg/m3	2 mg/m3
LEAD CAS NO.: 7439-92-1	0.05 mg/m3 0.03 mg/m3 ACTION LEVEL	0.05 mg/m3

NOTE: Both OSHA and the ACGIH list welding fumes as having an exposure limit of 5 mg/m3 (total particulate not otherwise classified). However, the ACGIH states that welding fumes must be tested frequently for individual components which are likely to be present to determine whether specific exposure limits are exceeded.
NOTE: The permissible exposure limits (PELs), threshold limit values (TLVs), potential health effects statements and SARA hazard categories may not be applicable as the hazardous ingredients listed are in the solid form. If dust, powder or fume is generated then these statements will be applicable.
Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 1998 Standards. All OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, January 19, 1989.

RESPIRATORY PROTECTION

If dust or fume is generated, a NIOSH/MSHA approved respirator may be necessary. Follow all requirements for respiratory programs and selection set forth in the OSHA regulations (29 CFR 1910.139).

VENTILATION

General; local exhaust ventilation as necessary to control any air contaminants to within their PELs or TLVs during the use of this product.

PROTECTIVE EQUIPMENT

Refer to ANSI/ASC Z49.1-94 (Safety in Welding, Cutting and Allied Processes), published by the American Welding Society, for further information on the selection of personal protective equipment.
Safety glasses (with side shields).
Body protection as necessary to prevent skin contact.

PERSONNEL SAMPLING PROCEDURE

For METALLIC COMPONENTS: Refer to NIOSH Manual of Analytical Methods (NMAM), 4th Edition, Method 7300.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Silver to grey metallic solid
Odor: Odorless
Boiling Point: 1744 to 2260 °C
Specific Gravity (H2O=1): 8 to 10.5
Melting Point: 183 øC
Vapor Pressure (mm Hg): Not Applicable
Vapor Density (Air=1): Not Applicable
Evaporation Rate: Not Applicable
% Solubility In Water: Insoluble
pH: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Generally considered stable.
Avoid: None expected.

INCOMPATIBILITY (Materials to Avoid)

Strong oxidizers, hydrogen peroxide, chlorine, turpentine, active metals. Powdered lead fused with ammonium nitrate may cause a violent reaction.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS

Toxic metal oxides are emitted when heated above the melting point. The amount of fume evolved increases as the temperature rises.

Polymerization: Polymerization is not expected to occur.
Avoid: Not applicable.

SECTION 11: TOXICOLOGICAL INFORMATION

CHEMICAL NAME	% Wt.	LD50	LC50
TIN CAS NO.: 7440-31-5	5-95	Not Available	Not Available
LEAD CAS NO.: 7439-92-1	5-95	Not Available	Not Available

NOTE: See Sections 3, 8 and 12 for additional information.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

No data available.

ENVIRONMENTAL FATE

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

US EPA Waste Number: D008

This product may be a hazardous waste under EPA waste regulations (see EPA WASTE above). Before disposal, this product or mixture containing this product should be tested for toxicity characteristics (TC) under the current EPA Hazardous Waste Regulations TCLP testing procedures, 40 CFR Part 261 et seq. Disposal/recycling/reclamation requirements will vary by location and type of disposal selected. Consult with state and local regulatory authorities.

NOTE Chemical additions, processing or otherwise altering this material may make the waste management information presented above incomplete, inaccurate or otherwise inappropriate.

As local regulations may vary; all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

INTERNATIONAL
UN Number: Not Regulated

UNITED STATES

EPA Waste Number: D008
DOT Classification: Not Regulated

CANADA
PIN Number: Not Regulated
TDG Class: Not Regulated

EC
DGL: Not Determined

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA: IN TSCA

SARA 311 AND 312 HAZARD CATEGORIES

IMMEDIATE (Acute) Health Hazard: YES
DELAYED (Chronic) Health Hazard: YES
FIRE Hazard: NO
REACTIVITY Hazard: NO
Sudden Release of PRESSURE: NO

SARA SECTION 313 NOTIFICATION

This product contains a toxic chemical (or chemicals) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CHEMICAL NAME	CAS Number	% Wt.
LEAD	7439-92-1	5-95

OZONE DEPLETING SUBSTANCES (ODS)

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

VOLATILE ORGANIC COMPOUNDS (VOC)

None

US STATE REGULATIONS
CALIFORNIA: The State of California has a regulation (Proposition 65) which identifies specific chemicals known to the State of California to cause cancer or birth defects. Proposition 65 requires a disclosure for products sold within the State of California containing an identified chemical. The following information is required by the State of California for this product:

*WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

VOLATILE ORGANIC COMPOUND (CARB): Not Determined

CANADIAN REGULATIONS

DSL/NDSL: DSL
WHMIS Classification: Class D Division 2 Subdivision A

EUROPEAN REGULATIONS

EINECS: Yes

OTHER REGULATIONS

MITI (Japan): Yes AICS (Australia): Yes

SECTION 16: OTHER INFORMATION

REVISIONS
Revision Number: 5
This MSDS has been revised in the following section(s):

PRODUCT NAME
LABEL COPY
MFG NAME

PREPARATION INFORMATION
Prepared By: Wolverine Joining Technologies, and Wolverine Tube Inc. Corporate Environmental, Health and Safety Group.

Phone Number/Address: See Section 1

This Material Data Sheet is offered pursuant to OSHA';s Hazard Communication Standard (29 CRF 1910.1200). Other government regulations must be reviewed for applicability to these products. The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, and management and for persons working with or handling these products. The information presented in the MSDS is premised upon proper handling and anticipated uses and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Material Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is the most current. Copyright Wolverine Joining Technologies, LLC. License granted to make unlimited copies for internal use only.

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	OATEY PLUMBER'S PUTTY
Product Use:	Stainless fixture setting compound.
Formula:	See SECTION 2
Synonyms:	Putty.
Firm Name & Mailing Address:	OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135, U.S.A. http://www.oatey.com
Oatey Phone Number:	(216) 267-7100 or (800) 321-9532
Emergency Phone Numbers:	For Emergency First Aid call 1-303-623-5716 COLLECT. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the US: 1-703-527-3887.
Prepared By:	Corporate Director – Safety and Environmental Compliance
Preparation Date:	June 10, 2005

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:	%wt/wt:	CAS NUMBER:	ACGIH TLV TWA:	OSHA PEL TWA:	OTHER:
Limestone	60 - 90%	1317-65-3	10 mg/M3	15 mg/M3 (Total dust)	None
Hydrocarbon oil	10 - 30%	64742-52-5	5 mg/M3	5 mg/M3	None
Talc	1 - 5%	14807-96-6	2 mg/M3	2 mg/M3	None
Clay	1 – 5%	68953-58-2	10 mg/M3	10 mg/M3	None

OSHA Hazard Classification: Not hazardous

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview:
White putty with a mild petroleum odor. May cause mechanical irritation of the eyes.

SECTION 4 FIRST AID MEASURES

CALL 1-303-623-5716 COLLECT

Skin:	Wash all exposed areas with soap and water.
Eyes:	As with most foreign materials, should eye contact occur, flush eyes with water until foreign matter is removed. If irritation develops, seek medical attention.
Inhalation:	Not a likely route of entry.
Ingestion:	**DO NOT INDUCE VOMITING.** Rinse mouth with water. Call a physician.

SECTION 5 FIRE FIGHTING MEASURES

Flashpoint / Method:	Not applicable
Flammability:	LEL = Not determined, UEL = Not determined
Extinguishing Media:	Use dry chemical, CO2, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.
Special Fire Fighting Procedure:	As appropriate for surrounding fire.
Unusual Fire and Explosion Hazards:	None
Hazardous Decomposition Products:	Combustion will produce toxic and irritating vapors including carbon monoxide and carbon dioxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Sweep up dried material and dispose of with ordinary trash.

SECTION 7 HANDLING AND STORAGE

Handling: No special handling required. Wash thoroughly after handling. Use good hygiene practices.
Storage: Store in a cool, dry area.
Other: None.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Use with adequate ventilation.
Respiratory Protection: If putty dries and becomes dusty, wear a dust respirator during clean-up.
Skin Protection: Gloves are not normally required.
Eye Protection: Safety glasses with side shields are recommended.
Other: Eye wash should be available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not applicable
Melting Point:	Not applicable
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Volatile Components:	Not determined
Solubility In Water:	Negligible.
pH:	Not applicable
Specific Gravity:	2.0 @ 20 Degrees C
Evaporation Rate:	Not applicable
Appearance:	White Putty
Odor:	Petroleum odor
Will Dissolve In:	Not determined
Material Is:	Putty

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.
Conditions To Avoid: Avoid heat, flames and other sources of ignition.
Hazardous Decomposition Products: Combustion will produce toxic and irritating vapors including carbon monoxide and carbon dioxide.
Incompatibility/ Materials To Avoid: Strong oxidizing agents.
Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation:	Not a likely route of entry.
Skin:	May cause mild irritation. Prolonged and repeated contact may cause dermatitis.
Eye:	Contact may cause irritation.
Ingestion:	Swallowing may cause a laxative effect including cramps and diarrhea.
Chronic Toxicity:	Prolonged or repeated overexposure cause dermatitis.
Toxicity Data:	Not available
Sensitization:	None of the components are known to cause sensitization.
Carcinogenicity:	None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.
Mutagenicity:	None of the components are known to be mutagenic.
Reproductive Toxicity:	None of the components are known to be toxic to reproduction.
Medical Conditions Aggravated By Exposure:	None known.

SECTION 12 ECOLOGICAL INFORMATION

No ecotoxicological information known.

VOC Information: This product has very low VOC level.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with current local, state and federal regulations.

RCRA Hazardous Waste Number: Not a hazardous waste.

EPA Hazardous Waste ID Number: Not a hazardous waste.

EPA Hazard Waste Class: Not a hazardous waste.

SECTION 14 TRANSPORT INFORMATION

DOT	Less than 1 Liter (0.3 gal)	Greater than 1 Liter (0.3 gal)
Proper Shipping Name:	Not regulated.	Not regulated.
Hazard Class/Packing Group:	None	None
UN/NA Number:	None	None
Hazard Labels:	None	None

IMDG	
Proper Shipping Name:	Not regulated
Hazard Class/Packing Group:	None
UN Number:	None
Label:	None

2004 North American Emergency Response Guidebook Number: None

SECTION 15 REGULATORY INFORMATION

Hazard Category for Section	Not hazardous.
Section 302 Extremely Hazardous Substances (TPQ):	This product does not contain chemicals regulated under SARA Section 302.
Section 313 Toxic Chemicals:	This product does not contain any chemicals regulated under SARA Title III Section 313.
CERCLA 103 Reportable Quantity:	This product does not contain any chemicals regulated under CERCLA.
California Proposition 65:	This product does not contain any chemicals subject To California Proposition 65 regulation.
TSCA Inventory:	All of the components of this product are listed on the TSCA inventory.
Canadian WHIMS Classification:	Not a controlled product. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16 OTHER INFORMATION

NFPA and HMIS:

NFPA Hazard Signal:	Health: 0	Flammability: 0	Reactivity: 0	Special: None
HMIS Hazard Signal:	Health: 0	Flammability: 0	Reactivity: 0	PPE: A

Disclaimer:
The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.

MATERIAL SAFETY DATA SHEET

POWER O PRODUCTS

1 - IDENTIFICATION

Manufacturer: Ormco Corporation
Address: 1717 West Collins Avenue
City, State, Zip: Orange, CA 92867
Telephone: 1-800-854-1741
24-Hour Emergency: **Chemtrec 1-800-424-9300**
Date Prepared: September 24, 2001

2 - COMPOSITION INFORMATION

Hazardous Ingredients
This product contains no hazardous components as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other Ingredients
Polyurethane elastomer

3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/D
Specific Gravity (H_20 = 1): N/D
Vapor Pressure (mm Hg): N/D
Vapor Density (AIR = 1): N/D
Freezing/Melting Point: N/D
Solubility in Water: N/D
Appearance and Odor: Clear or colored elastomer material with no odor

4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/D
Flammable Limits: LEL: N/D **UEL:** N/D
Extinguishing Media: Chemical foam, CO_2 or dry chemical
Special Fire Fighting Procedures: Wear a self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: N/A

5 - REACTIVITY DATA

Stability: Stable if stored as directed.
Conditions to Avoid: Heat, light, aging and contamination
Incompatibility (Material to Avoid): N/A
Hazardous Decomposition Byproducts: Oxides of carbon
Hazardous Polymerization: Will not occur

6 - HEALTH HAZARD DATA

Routes of Entry:
Skin: None known
Eyes: May cause mechanical irritation and damage.
Inhalation: N/A
Ingestion: N/A
Carcinogenicity - **NTP:** No
IARC Monographs: No **OSHA Regulated Carcinogen:** No

7 - EMERGENCY FIRST AID PROCEDURES

Skin: N/A
Eyes: N/A
Inhalation: N/A
Ingestion: N/A

8 - PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled: N/A
Waste Disposal Method: Dispose of properly in accordance with all federal, state and local regulations.
Precautions to be taken in handling and storing: Store in a cool and dry place away from heat and light.

9 - CONTROL MEASURES

Respiratory Protection: N/A
VENTILATION:
Local Exhaust: N/A
Mechanical (General): N/A
Protective Gloves: Not required
Eye Protection: Safety glasses recommended.
Work/Hygiene Practices: Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure to uncured material. Avoid contamination of food.

10 - TRANSPORTATION INFORMATION

Not DOT regulated.

11 - SPECIAL INFORMATION

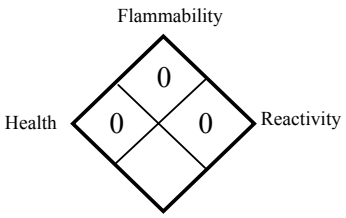
HMIS (Hazardous Material Identification System) Rating:
H0 F0 R0-**Safety glasses**
[HMIS Hazard Index: 4 – Severe Hazard; 3 – Serious Hazard; 2 – Moderate Hazard; 1 – Slight Hazard; 0 – Minimum Hazard]

Note: This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information contained in this MSDS is, to the best of our knowledge, believed to be accurate.

WALTER
Surface Technologies

MATERIAL SAFETY DATA SHEET
L-82E

NFPA Hazard Rating



0 = Minimum 1 = Light 2 = Moderate 3 = Serious 4 = Extreme

Section 1 - Product Identification

Bio-Chem Surface Technology
5977 Transcanada Highway
Pointe-Claire, Quebec
H9R 1C1
Emergency: CANUTEC (613) 996-6666

Trade name: **Gold Matrix All Purpose**
Product name: Industrial cleaner/degreaser
Order no.: 53-G 603, 53-G 607, 53-G608
WHMIS Classification: Non-hazardous
Controlled under WHMIS: No

Section 2 - Hazardous Ingredients

Ingredients	CAS Number	% by Weight	LD50RAT	LC50RAT

No hazardous substances to declare.

Section 3 - Physical / Chemical Characteristics

Physical state: Liquid
pH: 12
Specific gravity: 1.00 g/ml @ 20ºC
Evaporation rate: N/Av

Odour & appearance: Lavender, blue
Boiling point: 98ºC
Vapour pressure: N/Av
VOC g/l: N/Av

Odour threshold: None
Freezing point: 0ºC
Vapour density: N/Av
Water solubility: Soluble

Section 4 - Fire & Explosion Hazard

Flammability: No ***Conditions:*** *None*
Flashpoint: N/A
Auto ignition temperature: N/A
Flammable limits (%): Upper: N/A Lower: N/A

Extinguishing media: None
Hazardous combustion products: None
Sensitivity to mechanical impact or static discharge: No

Section 5 - Reactivity Data

Chemical stability: Yes
Conditions: *None*
Incompatible substances: Do not mix with other chemicals.
Hazardous decomposition products: None

Reactivity conditions: None

N/A - Not Applicable **N/Av - Not Available**

Section 6 - Toxicological Data

Route of entry: Eye and skin contact, ingestion.
Acute exposure effects: None
Chronic exposure effects: None
Exposure limits (TLV/TWA): N/Av

Carcinogenicity	Mutagenicity	Reproductive toxicity	Teratogenicity	Synergistic effects
No	No	No	No	No

If yes to any of the above, specify:

Section 7 - Preventive Measures

Protective equipment: Gloves in case of prolonged contact.
Handling procedures: Keep container tightly closed.
Waste disposal methods: Dispose as per municipal, provincial and federal regulations.
Leak/spill procedures: Soak up with absorbent material. Rinse small amount with quantity of water. Neutralize.
Storage requirements: Store below 50ºC and above 0ºC. Keep upright.
Engineering controls: None
Handling equipment: None
Special shipping information:

Section 8 - First Aid Measures

Skin contact: Wash off with water and soap. Apply cream.
Eye contact: Rinse eyes thoroughly with water. Consult a physician.
Inhalation: N/A
Ingestion: Do not induce vomitting. Rinse mouth with water and give plenty of water to drink.
Other: Consult a physician.

Section 9 - Preparation of MSDS

Prepared by: Division Manager WCB
Telephone: (514) 733-3315
Date: June 21th, 2007

This data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to bee generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

N/A - Not Applicable **N/Av - Not Available**

RECKITT BENCKISER

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	**PROFESSIONAL LYSOL® BRAND DISINFECTANT FOAM CLEANER (AEROSOL)**
Product Description	Aerosol disinfectant cleaner for multiple surfaces.
Manufacturer	Reckitt Benckiser North America, Inc. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, N.J. 07054-0225
Product Identifier	EPA Reg. No. 777-71-675
Item Number	36241-02775-09
Formula Number	(794-103) F/F 376360
UPC Number	36241-02775 (24 oz.)

MSDS#	Not available.
Validation Date	**9/1/2005**
Print Date	9/1/2005

In case of Emergency:	Telephone: 800-677-9218 (Professional Products)
Transportation Emergencies:	Chemtrec: 1-800-424-9300 (U.S. & Canada) Outside the U.S & Canada (North America), call: 703-527-3887

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
1) DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	5.6	Not available.
2) ISOBUTANE	75-28-5	7.0	Not available.

Section 3. Hazards Identification

Emergency Overview	CAUTION: May cause eye irritation. Avoid contact with eyes and skin. Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperature above 55º C (130ºF) or in sun or discarding can in fire or incinerator may cause bursting. KEEP OUT OF REACH OF CHILDREN.

Section 4. First Aid Measures

Eye Contact	In case of eye contact, hold eyes open and IMMEDIATELY rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing for at least 15 minutes. If irritation persists, consult a physician.
Skin Contact	In case of skin contact, wash skin thoroughly with soap and water. If irritation persists, consult a physician.
Inhalation	Remove to fresh air.
Ingestion	Rinse mouth with water. Contact a physician or poison control center if symptoms develop. NEVER give an unconscious person anything to ingest.

Continued on Next Page

Section 5. Fire and Explosion Data

Flammability	See Section 14 for any Shipping Classifications.
Flash Point	Not applicable. Flame extension less than 18 inches or 45 cm.
Explosive Limits in Air	Not available.
Products of Combustion	Not available.
Fire and Explosion Hazards	CONTENTS UNDER PRESSURE. Do not use or store near hear or open flame. Do not puncture or incinerate. Do not expose to heat or store at temperatures above 55º C (130º F) as container may burst.
Fire Fighting Media and Instructions	Use water spray, foam, dry chemical or carbon dioxide, as suitable for surrounding fire.
Special Fire Fighting Instructions	Wear self-contained breathing apparatus and protective clothing appropriate for fighting a typical chemical fire. Move containers away from fire if possible and safe to do so. Use water spray to cool fire exposed containers. Provide shielding for venting, rupturing or bursting containers.

Section 6. Accidental Release Measures

Accidental Spill	Small spills of liquid can be wiped up with a wet paper towel and residue may be flushed to sink or sanitary sewer with water. Large spills of liquid from ruptured cans: Eliminate all sources of ignition and ventilate the area with equipment rated for use in flammable environments. Spilled liquid should be diked, contained, collected and stored in metal containers for later disposal according to local, state or federal regulations.

Section 7. Handling and Storage

Handling and Storage	CAUTION: May cause eye irritation. Avoid contact with eyes or skin. Contents under pressure. Do not store near heat or open flame. Store container in a cool, dry area inaccessible to small children. Do not reuse empty container. Replace cap and discard in trash. Do not incinerate or puncture. KEEP OUT OF REACH OF CHILDREN. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Section 8. Exposure Controls/Personal Protection

Ventilation Requirements	None required.
Eye Protection	None required when used as recommended. Appropriate eye protection should be worn if the possibility of eye contact exists. Emergency responders should wear eye protection.
Skin Protection	For sensitive skin or prolonged use, wear rubber gloves. Emergency responders should wear impermeable gloves.
Respiratory Protection	None required.
Other Protection	None required. Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Work/Hygienic Practices	Washing with soap and water after use is recommended as good hygienic practice to prevent possible skin irritation and / or eye irritation from the residue that may be left on the hands.

Continued on Next Page

Section 9. Physical and Chemical Properties

Description	Aerosol container. White foam when sprayed.
pH	12.35 [Basic.]
Boiling/Condensation Point	Not available.
Specific Gravity	1.007-1.036
Vapor Pressure	34-40 PSIG @ 70°F.
Vapor Density	>1 (concentrate)
Viscosity	Not available.
Solubility	Miscible
Physical Chemical Comments	Not available.

Odor	Not available.
Color	White foam when sprayed as an aerosol.

Section 10. Stability and Reactivity Data

Chemical Stability	The product is stable.
Conditions of Instability	Temperatures above 130° F (55° C) which may cause aerosol container to rupture.
Incompatibility with Various Substances	Oxidizing agents and acids.
Hazardous Decomposition Products	Oxides of nitrogen and/or carbon and other unidentified organic compounds may be formed during thermal decomposition.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Exposure effects

Eye Contact	May cause eye irritation. Avoid contact with eyes.
Skin Contact	May cause skin irritation. Avoid skin contact.
Inhalation	None expected.
Ingestion	None expected.
Carcinogenicity	Not listed as carcinogenic by OSHA, NTP or IARC.

Section 12. Ecological Information

Ecotoxicity	Not available.

Continued on Next Page

Section 13. Disposal Considerations

Waste Disposal	Dispose of in accordance with local, state and federal regulations. Container Disposal: Do not reuse empty container. Replace cap and discard in trash.

Section 14. Transport Information

DOT Classification	ORM-D
Proper Shipping Name	Consumer Commodity
DOT Identification Number	Not applicable
Packing Group	Not applicable
Maritime Transportation	Not applicable.
Hazardous Substances Reportable Quantity	Not applicable.
Special Provisions for Transport	ORM-D: For US Domestic Shipments Only
TDG Classification	Consumer Commodity - Transborder Consignment
ADR Classification	Not applicable.
IMDG Classification	UN1950 - Aerosols, class 2.2 - Limited Quantity
IATA Classification	Consumer Commodity, 9 ID8000

Section 15. Regulatory Information

Federal and State Regulations

SARA Title III, Section 313 Toxic Chemical Notification & Release Reporting:

1) DIETHYLENE GLYCOL MONOBUTYL ETHER CAS #: 112-34-5 5.6 %

California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:
None

Other Classifications

WHMIS (Canada) Not a WHMIS controlled product.

New Jersey Right-To-Know Regulation: NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW ACT: This EPA Registered Product is exempt from the labeling requirements of the above act. N.J.A.C. 8:59-5.5 #1.

Section 16. Other Information

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	2
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)

Health

Fire Hazard

Reactivity

Specific hazard

	NFPA Aerosol Level 1, per NFPA 30B
Validated by Product Safety on 9/1/2005.	**Printed 9/1/2005.**

Continued on Next Page

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION

NFPA Rating: Health-2; Flammability-2; Reactivity-0; Special- -	**HMIS Rating:** Health-2; Flammability-2; Reactivity-0; Personal Protection-B
Manufactured For: U.S. CHEMCO SUPPLY & SERVICE Address: 3542-A EAST T.C. JESTER Address: HOUSTON, TEXAS 77018	**DOT Hazard Classification:** Flammable Liquid, 3 **Identity** (trade name as used on label): **U.S. CHEMCO ORANGE BLOSSOM DEGREASER**
Phone: (713)681-9421	**MSDS Number:** SR 362 A Revision - 2
Emergency Response Number: (713)681-9421 **NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA**	Date Prepared: 02/03/94 Prepared By: RC Information Calls: (404)422-2071

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
PETROLEUM DISTILLATE	8008-20-6	No	N/E	N/E	d
NONOCYCLIC TERPENE	5984-27-5	No	N/E	N/E	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 175ºF	**Specific Gravity** (H2O=1): 0.845
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A	**Vapor Pressure** (Non-Aerosols)(mm Hg and Temperature): N/A
Vapor Density (Air = 1): N/A	**Evaporation Rate** (= 1): N/A
Solubility in Water: Miscible	**Water Reactive:** No

Appearance and Odor: Non-viscous, clear, colorless to pale orange liquid with citrus fragrance.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	Auto Ignition Temperature N/A	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A
FLASH POINT AND METHOD USED (non-aerosols): 145°F **SPECIAL FIRE FIGHTING PROCEDURES:** Same as for oil fires.	**EXTINGUISHER MEDIA:** Foam, dry chemical, CO2.	

Unusual Fire & Explosion Hazards: None known.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY [X] STABLE [ ] UNSTABLE	**HAZARDOUS POLYMERIZATION** [ ] WILL [X] WILL NOT OCCUR
Incompatibility (Mat. to avoid): Strong bases at elevated temperatures, strong acids & oxidizing agents.	**Conditions to Avoid:** None

Hazardous Decomposition Products: Burning may produce carbon and oxides of carbon.

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: [ ] INHALATION [ ] INGESTION [X] SKIN ABSORPTION [X] EYE [ ] NOT HAZARDOUS

ACUTE EFFECTS

Inhalation: Not generally considered a hazard.

Eye Contact: Irritant.	**Skin Contact:** May be irritating.

Ingestion: Irritant.

CHRONIC EFFECTS: Prolonged exposure may result in skin and eye irritation.

Medical Conditions Generally Aggravated by Exposure: None known.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. If irritation persists, get medical attention.

Skin Contact: Remove contaminated clothing and wash skin with soap and water for 15 minutes.

Inhalation: Remove to fresh air.

Ingestion: DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): If used in confined area, use self-contained breathing apparatus.

Protective Gloves: Solvent resistant.	**Eye Protection:** Splash goggles or face shield.

Ventilation Requirements: Local exhaust is adequate.

Other Protective Clothing & Equipment: Boots and apron, if desired.

Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash hands after handling.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Dike & contain. Do not allow concentrated product into sanitary sewers or direct access waterways. Toxic to fish. Absorb on inert material and place in sealed containers.

Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.

Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Shelf life 1 year. Protect from extreme heat or open flame. Avoid breathing vapors.

Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

MATERIAL SAFETY DATA SHEET

Product Name: PINE CLEANER & DEODORANT Product No. 094.00

SAVIN PRODUCTS COMPANY, INC.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PINE CLEANER & DEODORANT

Emergency phone: Chemtrec: 800-424-9300 Product Information: 781-961-2744

Company: SAVIN PRODUCTS COMPANY, INC.
214 HIGH STREET
RANDOLPH, MA 02368

Date Prepared: 04-23-04 Supersedes: 01-15-02 Prepared by: KJS

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Exposure Limits	Typical % by Weight
1. Nonylphenol Ethoxylate	9016-45-9	N/A	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: May causes eye irritation. May cause skin irritation with prolonged contact. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally.

EFFECTS of OVEREXPOSURE
CARCINOGENICITY:
NTP: No IARC: No OSHA: No
EYES: May cause severe eye irritation.
SKIN: Repeated or prolonged contact may cause skin irritation.
INHALATION: Mist may cause irritation to mucous membranes and respiratory tract.
INGESTION: May result in gastric disturbances.
CHRONIC EFFECTS and MEDICAL CONDITIONS: The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposure. This product may aggravate existing eye, skin and respiratory conditions.

4. FIRST AID MEASURES

EYES: Flush with copious amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention.
SKIN: Immediately flush with water. Remove contaminated clothing. Launder contaminated clothing before reuse.
INHALATION: Remove to fresh air. If breathing is difficult, oxygen may be given, preferably with a physician's advice. Get medical attention.
INGESTION: If swallowed, give several glasses of water. Do not induce vomiting. If vomiting does occur, give fluids again and keep head below hips to help prevent aspiration. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:
Flash Point: >200 F Test: Tag Closed Cup (Method D-56)
Explosive Limits: LEL: N/A UEL: N/A
EXTINGUISHING MEDIA: Use water spray, dry chemical, CO2, or alcohol foam.
SPECIAL PROCEDURES AND UNUSUAL HAZARDS: Combustion may produce noxious and irritating gases which will require fresh air source in fire fighting.
FIREFIGHTING INSTRUCTIONS: Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Soak up small spills with inert solids. Use suitable disposal container.
LARGE SPILLS: Limit access to area. Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water. CAUTION: Floor may become slippery.

7. HANDLING AND STORAGE

Handle according to good manufacturing and warehousing practices. Keep containers tightly closed when not in use. Use good personal hygiene practices. Wash hand before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Store in tightly closed containers away from heat, sparks, open flame or strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Avoid splashing. Wear chemical-resistant safety goggles if necessary. Contact lenses must not be worn.
PROTECTIVE GLOVES: Depending on conditions of use, protective gloves, apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.
RESPIRATORY PROTECTION: No occupational exposure standards have been developed for this material. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended.
VENTILATION: Either local exhaust or general room ventilation is usually adequate.
OTHER PROTECTIVE EQUIPMENT: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, green, thin, foamy liquid.
BOILING POINT: approx. >212F >100C @ 1ATM
FREEZE/MELT POINT: approx. 0C
VAPOR PRESSURE (mm): ca water
VAPOR DENSITY (air=1): ca water
EVAPORATION RATE: approx. water
VOLATILE CONTENT: 97%
SOLUBILITY IN WATER: Complete.
SPECIFIC GRAVITY: 1.01 @ 20C
DENSITY: 8.4 lb./gal. @ 20C
pH(as is): 7.0
ODOR: Pine
ODOR THRESHOLD (ppm): Not determined.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable.
INCOMPATIBILITY: Strong acids, strong oxidizers and excessive heat.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon Dioxide, Ammonia, Nitrous oxides and other toxic gases.
HAZARDOUS POLYMERIZATION: None

11. TOXICOLOGICAL INFORMATION

No LD50 or LC50 found for oral, dermal or inhalation routes of administration.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL/CHEMICAL FATE INFORMATION: Not available.

13. DISPOSAL CONSIDERATIONS

RCRA: This product, if disposed as shipped, is not considered a hazardous waste as specified in 40 CFR 261.
Dispose in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

SHIPPING NAME: Compound, Cleaning, Liquid
HAZARD CLASS: Not regulated as HAZMAT.
ID #: N/A
PACKING GROUP: N/A
LABEL: N/A

15. REGULATORY INFORMATION

This material does not contain nor was it manufactured using ozone-depleting chemicals.

U.S. FEDERAL REGULATIONS:

TSCA STATUS: All ingredients on Toxic Substance Control Act Inventory.

CERCLA REPORTABLE QUANTITY: N/A

SARA TITLE III:

Section 302 Extremely Hazardous Substances:	None.
Section 311/312 Hazardous Categories:	Immediate (Acute)
Section 313 Toxic Chemicals:	None.

RCRA STATUS: Based on chemical composition and pH (40 CFR Sec. 261.22), this material is not classified as a hazardous waste if disposed as shipped.

16. OTHER INFORMATION

All label precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse this container unless it is professionally cleaned and reconditioned.

REFERENCES:

- U.S. Dept. of Health and Human Services, NIOSH: Registry of Toxic Effects of Chemical Substances, 1985-86 Editions.
- Sax, N. Irving and Lewis, R.J.: Dangerous Properties of Industrial Materials, 7th Edition, Van Nostrand Reinhold Co., 1989.
- Lewis, R.J.: Hawley's Condensed Chemical Dictionary,12th Edition, Van Nostrand Reinhold Co., 1993.
- U.S. Dept. of Transportation, U.S. Coast Guard: CHRIS Hazardous Chemical Data, 1982.
- U.S. Dept. of Labor, OSHA: Air Contaminants - Permissible Exposure Limits, 1989.
- National Fire Protection Association (NFPA): Fire Protection Guide on Hazardous Materials (NFPA 325M/49/491M/704), 9th Edition, 1986.
- National Fire Protection Association (NFPA): Hazardous Materials Response Handbook, Henry, M.F., Editor, 1989.
- Merck & Co., Inc.: The Merck Index, 11th Edition, 1989.

Information herein is given in good faith as authoritative and valid; no warranty, express or implied can be made.

MATERIAL SAFETY DATA SHEET

4560-585
-601
-610

Formula: C12-50
MSDS No.: 1

Home Hardware Stores Limited

Section 1 - Product and Company Information

Brand Name: HOME
Item Number: C12-50
Material Code: 4560-585, 4560-601, 4560-610
Chemical Family: FLOOR STRIPPER
Intended Use: CLEANER
Preparation Date: 16 January 2007
Prepared By: CHEMICAL LAB **Phone Number:** 519-449-2441

Emergency Phone Number: (613) 996-6666

Supplier:

Home Hardware Stores Limited
6 Brian Drive
Burford, ON
N0E 1A0

Manufacturer:

Home Hardware Stores Limited
6 Brian Drive
Burford, ON
N0E 1A0

Section 2 - Composition/Information on Ingredients

CAS No.	Description	LC50 (ml/m^3)	LD50 oral (mg/kg)	LD50 Dermal (mg/kg)	Range
111-76-2	2-BUTOXYETHANOL	900 (rat)	3000 (rat)	100 (rabbit)	10% - 30%
141-43-5	ETHANOLAMINE	N/AV	2100 (rat)	1018 (rabbit)	3.0% - 7.0%

Section 3 - Hazards Identification

Emergency Overview: May be harmful if inhaled, absorbed through skin, or swallowed.

Potential Health Effects

Routes of Entry: Eye contact, skin contact, skin absorption, inhalation, and ingestion.

Eye: May cause eye irritation.

Skin contact: May cause skin irritation.

Skin absorption: Substance may be harmful if absorbed through skin.

Inhalation: May be harmful if vapours are inhaled.

Ingestion: May be harmful if swallowed.

Effects of Chronic Exposure to Product: Refer to Section 11.

Effects Of Acute Exposure: HARMFUL-INHALATION, NON- CORROSIVE TO STEEL

Section 4 - First Aid Measures

Eye contact: Flush immediately with water for 15 mins. Get medical attention.

Skin contact: Immediately flush skin with plenty of water. Remove clothing. Get medical attention if irritation develops or persists. Contaminated clothing should be discarded in a manner of limiting further exposure.

Skin absorption: Immediately flush skin with plenty of water. Remove clothing. Get medical attention if irritation develops or persists. Contaminated clothing should be discarded in a manner limiting further exposure.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Get medical attention immediately. Substance may be harmful if swallowed.

Section 5 - Fire Fighting Measures

Flash Point:	ABOVE 61C
Flash Point Method:	CLOSED CUP
Upper Flammable Limit:	N/AV
Lower Flammable Limit:	N/AV
Autoignition:	N/AV
Hazardous Combustion Products:	N/AV
Means of Extinction:	WATER FOG, DRY CHEMICAL, FOAM
Conditions Of Flammability:	N/AV

Explosion Data

Mechanical Impact:	NO
Static Discharge:	NO

Section 6 - Accidental Release Measures

Dispose of in accordance with regional regulations.

Section 7 - Handling and Storage

Handling Procedures and Equipment: Avoid contact with eyes, skin, and clothing.

Storage Requirements: Keep away from food and drink.

Section 8 - Exposure Control/Personal Protection

Specific Engineering Controls: If user operations generate dust, fume, or mist, use ventilation to minimize exposure.

Personal Protective Equipment: Wear safety glasses with side shields and chemical resistant gloves.

Exposure Limits: Consult local authorities for acceptable exposure limits.

Section 9 - Physical and Chemical Properties

Appearance:	YELLOW LIQUID
Odour:	LEMON
Vapour Pressure:	N/AV
Vapour Density:	N/AV
Physical State:	LIQUID
Boiling Point:	APPROX 100C
Freezing/Melting Point:	APPROX 0C
pH:	11.84
Evaporation Rate:	CLOSE TO WATER
Coefficient water/oil distr.:	N/AV
Odour Threshold:	N/AV
Specific Gravity:	0.9960

Section 10 - Stability and Reactivity

Stability: Yes.

Conditions to Avoid: High temperatures.

Materials to Avoid: Acidic conditions.

Hazardous Decomposition Products: Not available.

Hazardous Polymerization: Not available.

MATERIAL SAFETY DATA SHEET

Section 11 - Toxicological Information

Sensitization to Product: Not available.

Carcinogenicity: Contains 2-butoxyethanol which is a confirmed animal carcinogen.

Irritancy of Product: Contains 2-butoxyethanol and ethanolamine which may cause irritation.

Reproductive Toxicity: Not available.

Teratogenicity: Contains 2-butoxyethanol which is a known teratogen.

Mutagenicity: Not available.

Name of Toxicologically Synergistic Products: Not available.

Section 12 - Ecological Information

Not Available.

Section 13 - Disposal Considerations

Contact your local municipal office for specific disposal guidelines in your region.

Section 14 - Transport Information

TDG Road Classification

Shipping Name:	CORROSIVE LIQUID N.O.S. (monoethanolamine)
Class:	8
Packing Group:	II
UN #:	UN1760
Limited Quantity Exemption:	1 LITRE

Section 15 - Regulatory Information

WHMIS Classification:	D2A, E
P.C.P. Registration #:	N/AP
EPA Registration #:	N/AP

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 - Other Information

N/AV: Not available
N/AP: Not applicable
NR: Not regulated

Information for this material safety data sheet was obtained from sources considered accurate and reliable, and was prepared to the best of Home Hardware Stores Limited knowledge. Actual conditions of use and handling beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, Provincial and local laws and regulations.

NuGenTec

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION AND USE

Product Identification
Product Name: Glass and Window Cleaner - Windex(r) type
Product Number: GPG202
Synonyms: Window and Glass Cleaner
CAS Number: Blend

Company Identification
NuGeneration Technologies, LLC
100 Professional Center Drive suite 101
Rohnert Park, CA 94928 USA www.nugentec.com
(707) 820-4080 (For product information)
1-800-424-9300 or 1-202-483-7616 (For emergencies CHEMTREC)

SPECIAL NOTES: Non-streaking Fast drying window cleaner.

2. HAZARDOUS INGREDIENTS

Chemical Name	Amount	CAS Number
SEC-PROPYL ALCOHOL	< 10.0 %	67-63-0
BALANCE NON-HAZARDOUS INGREDIENTS	> 90.0 %	N/A

COMPOSITION COMMENT:
This Product Meets FDA/USDA requirements for cleaning in the food processing industry. This product is formulated with NON-Hazardous ingredients only.

EXPOSURE GUIDELINES: No Information Available.

Canadian Disclosure List SEC-PROPYL ALCOHOL (67-63-0)

3. PHYSICAL DATA

FORM	Liquid
COLOR	Colorless
ODOR	Faint ether-like odor
BOILING POINT	>212 F
SOLUBILITY IN WATER	Complete
SPECIFIC GRAVITY	0.996 (Water = 1)
BULK DENSITY	8.31
MELTING/FREEZING POINT	32 F
PH	10.5
% VOLATILES	6 %
VOLATILE ORGANIC COMPOUNDS (VOC)	<60 g/l

INHALATION:
No hazards expected in normal industrial use at room temperature.

INGESTION:
Ingestion is not considered a potential route of exposure.

CARCINOGENICITY INFORMATION:
No known cancer hazards.

MISCELLANEOUS:
Slippery, can cause falls if walked on.

4. FIRE AND EXPLOSION DATA

FLAMMABLE PROPERTIES
COC Flash Point: N/A
Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Carbon dioxide, foam, or dry powder.

FIRE & EXPLOSION HAZARDS:
High concentrations of vapors may burn in a fire.

FIRE FIGHTING INSTRUCTIONS:
Contaminated extinguishing water must be disposed of in accordance with applicable regulations.

5. REACTIVITY DATA

STABILITY:
Stable.

POLYMERIZATION:
Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:
None known.

DECOMPOSITION:
Decomposition will not occur if handled and stored properly.

CONDITIONS TO AVOID:
This material is safe under normal storage and handling conditions.

6. TOXICOLOGICAL PROPERTIES

EYE:
Contact may cause eye irritation. Not known to cause permanent injury to eye tissue.

SKIN:
Prolonged or repeated contact may cause skin irritation.

INHALATION:
No hazards expected in normal industrial use at room temperature.

INGESTION:
Ingestion is not considered a potential route of exposure.

CARCINOGENICITY INFORMATION:
No known cancer hazards.

MISCELLANEOUS:
Slippery, can cause falls if walked on.

EYE EFFECTS:
Contact may cause eye irritation.

SKIN EFFECTS:
Contact may cause slight skin irritation.

ACUTE ORAL EFFECTS:
No know hazards in normal industrial use.

ACUTE INHALATION EFFECTS:
No know hazards in normal industrial use.

7. PREVENTITIVE MEASURES

RECOMMENDED STORAGE TEMPERATURE
Minimum: 4.4 C (39.9 F)
Maximum: 48.9 C (120.0 F)

HANDLING (PERSONNEL):
Avoid contact with eyes, skin, and clothing.

HANDLING (PHYSICAL ASPECTS):
Keep container closed to avoid contamination.

STORAGE PRECAUTIONS:
Keep container closed when not in use. Do not stack drums more than three pallets high.

ENGINEERING CONTROLS:
Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:
When splashing of the material may occur, chemical goggles and a face shield are recommended.

SKIN PROTECTION REQUIREMENTS:
For brief contact, normal work attire should be sufficient. Wash hands thoroughly after handling.

RESPIRATORY PROTECTION REQUIREMENTS:
Under normal use conditions, with adequate ventilation, no special handling equipment is required.

SAFEGUARDS (PERSONNEL):
Protect skin and eyes from exposure.

INITIAL CONTAINMENT:
Floor may become slippery. Wash area to prevent slipping. Contain spilled material. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

LARGE SPILLS PROCEDURE:
Flush spill area with water to wastewater treatment system. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE:
Floor may become slippery. Wash with water. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

WASTE DISPOSAL:
Uncleaned empty containers should be disposed of in the same manner as the contents. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

CONTAINER DISPOSAL: Clean out containers prior to disposal.

8. FIRST AID MEASURES

EYE CONTACT FIRST AID:
Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

SKIN CONTACT FIRST AID:
Flush skin with plenty of water. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:
Not an expected route of exposure.

Remove from area of exposure. Seek immediate medical attention if respiratory irritation or distress continues.

INGESTION FIRST AID:
Ingestion is not considered a potential route of exposure. If ingested get medical attention immediately.

NOTES TO PHYSICIAN:
Treat patient symptomatically.

9. PREPARATION DATE OF MSDS

Prepared By.....: Donato Polignone
Approval Date.....: May 29, 2007
Supersedes Date...: August 30, 2001
PRD Number.....: GPG202 (Official Copy)

****

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of NuGeneration Technologies, LLC. The data on this sheet are related only to the specific material designated herein. NuGeneration Technologies, LLC assumes no legal responsibility for use or reliance upon these data.

****

END OF MSDS

****

Tile & Grout Cleaner

MIRACLE Sealants Company
www.miracleSealants.com

Ready to Use Cleaner For

- Sanded Grout
- Non-sanded Grout
- Mortar
- Ceramic Tile
- Quarry Tile
- Porcelain Tile
- Glazed Ceramic
- Honed Marble
- Tumbled Marble
- Honed Limestone
- Honed Travertine
- Granite

Special Features

- Non Acid
- Non Bleach
- Pleasant Odor
- Removes Mildew
- Fast Acting
- User Friendly
- Environmentally Safe

PRODUCT DESCRIPTION

KEEP OUT OF REACH OF CHILDREN. Tile & Grout Cleaner is a non abrasive, non acidic cleaner designed for use on all grout and ceramic tiles. Strong enough to remove difficult stains, soap scum, dirt, water deposits, mildew and mold, yet is gentle enough for regular use. **Tile & Grout Cleaner** is easy to use and will not harm sanded and non sanded grout as many household products can. Environmentally friendly **Tile & Grout Cleaner** will not harm tile, chrome, glass, Formica or Corian (NOT FOR USE ON POLISHED MARBLE, LIMESTONE OR TRAVERTINE)

Sample Testing

Due to the differences of each substrate, several inconspicuous test patches should be completed to assure maximum performance. **User must determine suitability of the product for their intended use.**

Protect Neighboring Surfaces

Always protect neighboring surfaces including wood, carpet, metal, landscaping and other non masonry surfaces.

APPLICATION INSTRUCTIONS

Read entire label and PDS/MSDS before using.

Spray **Tile & Grout Cleaner** onto soiled surface and allow to dwell for several minutes. Wipe clean with a clean scrub pad, brush, sponge or cloth. Do not allow **Tile & Grout Cleaner** to dry on the surface. Rinse if necessary. Heavy soiled surfaces and more porous surfaces may require scrubbing. Use the appropriate brush for the surface being cleaned. Grout can be cleaned with a small nylon brush. To remove heavy build up of mold or mildew use **H2O Strip** as directed first. Not for use on polished, marble, travertine or limestone.

Heavy Duty Cleaning: Use **Phosphoric Acid Cleaner , GCFR** or **Liquid Poultice** as directed.

Light Cleaning: Use **Mira Clean #1, Porcelain & Ceramic Tile Cleaner, Mira Soap, Grout Cleaner,** or **Counter Kleen** as directed.

Water, Stain & Slip Protection

To protect cleaned area from future soiling and staining and increase static coefficient of friction, we recommend applying the appropriate **Miracle Penetrating Sealer/Impregnator**.

Color and Gloss Enhancement

For added color with "Textured and Non polished" surfaces, **511 Seal & Enhance** may be used. For porous type "Paver", **Stone Polish, MiraPolish, Granite Brite, 511 Seal & Enhance, Mira Dust, Marble Conditioner** or **Tile Brite** may be used as directed.

Mold, Mildew and Bacteria Sanitation

For best results in killing mold, mildew, bacteria and other micro organisms, use **Miracle Disinfectant** or **Miracle Wipes** as directed.

Coverage

Coverage will vary depending on density, porosity, texture. surface absorption, weather, time solution left on surface and application methods. Used as directed, **Tile & Grout Cleaner** will clean approximately 4,000 square feet per gallon (363 s.m. per 3.785 liters) and 250 square feet per 8 ounce bottle (22 s.m. per .16 liters).

MAINTENANCE

For ongoing maintenance instructions please refer to **Miracle Sealants Care Guide.** Refer to the **Miracle Sealants Product Recommendation Chart** for specific product recommendations.

Storage

Store **Tile & Grout Cleaner** in the original upright container, properly sealed and unmixed. Stored at 77° F (40° C), **Tile & Grout Cleaner** will have a shelf life of 12 months. Do not allow to freeze.

Technical Support

For additional technical support, contact Miracle Sealants Company at 1-800-350-1901 or 626-814-8988 ext. 3013

Office Hours

Monday - Friday from 8:30 am - 5:00 pm PT.
1-626-443-6433 or 1-800-350-1901 • Fax: 1-626-443-1435
website: www.miracleSealants.com

Product Damaged During Transportation

If product is damaged during transportation contact
Info Trac @ 1-800-535-5053

Additional Products

Miracle Sealants Company offers a complete line of water & stain repellents, sealers, cleaner, polishing compounds, diamond abrasives, machinery and accessories for the tile, stone, concrete, metal, fabric and carpet professional or do-it yourself specialist.

Caution

Store in cool area. Only use this product in well ventilated areas. Good ventilation means that fresh air is flowing in such a way to feel a slight breeze. Continue to ventilate until odors are completely eliminated. Avoid contact with skin. Chemical resistant gloves should be worn at all times. Keep small children and pets out of area until product or surface has thoroughly dried. **Refer to the MSDS for additional information.**

Warranty

Instructions are a condensed guide and should not be considered complete. In the event of failure, the only obligation of Miracle Sealants Company shall be to replace such products proven to be defective. **Before using, user shall determine the suitability of the product for their intended use. User assumes all risks and liability whatsoever in connection therein.** Neither seller nor manufacturer shall be liable for any injury or inability to use this product.

MATERIAL SAFETY DATA SHEET

Tile & Grout Cleaner

MIRACLE Sealants Company
www.miracleseal ants.com

Osha's Hazard Communication Standard
U.S. Department Of Labor

29 CFR 1910.1200 — OMB No. 1218-0072
Identity No: — Name: Tile & Grout Cleaner

Section 1

Manufacturers Name:	Miracle Sealants Company
Address:	12318 Lower Azusa Road
Emergency Phone:	800-350-1901
City:	Arcadia
State:	CA
Phone:	626-443-6433
Date Prepared:	June 2007

Section 2 - Hazardous Ingredient/Identity Information

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV
None	None	None	None

VOC: 6% by weight before dilution or 68 g/L

Section 3 - Physical/Chemical Characteristics

Boiling point: 210° F
Specific gravity: 1.066
Vapor pressure: Not tested
Melting point: Not tested
Vapor density: Not tested
Evaporation rate: Not tested
Solubility in water: 100%

Appearance and odor: Colorless liquid, citrus odor

Section 4 - Fire And Explosion Hazard Data

Flash Point: Not Available
Flammable limits: Not tested
LEL: Not tested
UEL: Not tested
pH: 8.5-10.0

NFPA hazard rating (0 = Least, 4 = Extreme)
Health: 1
Fire: 0
Reactivity: 0
Other: 0

HMIS Hazard Rating:
Health: 1
Fire: 0
Reactivity: 0

Extinguishing media: CO_2, dry foam
Special fire fighting procedures: None
Unusual fire and explosion hazards: None

Section 5 - Reactivity Data

Stability: Stable
Conditions to avoid: None
Incompatible materials to avoid: Strong oxidizer
Hazardous decomposition byproducts: CO, CO_2
Hazardous polymerization: Will not occur.

Section 6 - Health Hazard Data

Routes of Entry:
Eyes - Possible
Inhalation - Possible
Skin - Possible
Ingestion - Possible
Health Hazards - Same as signs and symptoms of exposure.

Carcinogenicity:
OSHA: None
NTP: None
IARC Monographs: None

Signs and Symptoms of Over Exposure:
Eyes: Burning sensation.
Skin: Slight Irritation.
Ingestion: Nausea.
Inhalation: Slight Irritation.

Emergency and First Aid Procedures:
Eyes: Flush with water for 15 minutes. If irritation persists, call physician.
Skin: Wash off with soap and water. If irritation persists, call physician.
Ingestion: Do not induce vomiting. Call physician or Poison Control Center immediately..
Inhalation: Get person to fresh air if unconscious. Call physician.

Section 7 - Precautions For Safe Handling And Use

Steps to be taken in case material is released or spilled: Soak up with inert, absorbent material. Scoop up and place in a proper waste disposal container.

Waste disposal method: Dispose of in accordance with state and local regulations.

Precautions to be taken in handling and storing: Store in a cool, dry place, out of direct sunlight. Do not freeze less than or equal to 32° F or heat above 110° F.

Other precautions: KEEP OUT OF REACH OF CHILDREN. Follow directions on the container for proper use of this product.

Section 8 - Control Measures

Respiratory protection: Ventilate by opening all doors and windows.

Ventilation:
Local exhaust - If available
Special - None
Mechanical - If available
Other - None

Protective gloves: Plastic or rubber, chemical resistant.
Eye protection: Tight fitting splash proof safety glasses or goggles.
Other protective clothing or equipment: None

Work hygienic practices: Wash hands thoroughly before handling food stuffs, liquids or tobacco products. Use common sense and care around chemicals. Never mix this product with other chemicals. Consult your supervisor for all other hygienic and safety practices. All practices depend on your specific business. Directions for use normally found on label which will dictate engineering and control measures.

Section 9 - Shipping & Regulatory Classification

DOT Shipping Name: Please refer to the Bill of Lading receiving/documents for up-to-date information.

DOT#: Not Available
DOT Hazard Class: Not Available

Toxic Substances Control Act (TSCA): This product and/or all the ingredients contained in this product have been registered under the Toxic Substances Control Act.

SARA: No SARA 313 chemicals identified.

NOTE: Miracle Sealants believes the data set forth are accurate. Miracle Sealants makes no warranty with respects thereto and disclaims all liability or reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.

JohnsonDiversey
Clean is just the beginning

TEMP TILE, ENAMEL, METAL AND PORCELAIN CLEANER (SUMA)

HMIS		NFPA	Personal protective equipment
Health	2	2	None / Aucune / Ninguno
Fire Hazard	0	0	
Reactivity	0	0	

Version Number: 1 *Preparation date: 2006-10-12*

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: TEMP TILE, ENAMEL, METAL AND PORCELAIN CLEANER (SUMA)

MSDS #: 203201436001
Product code: 04410279
Recommended use: Cleaning product.

Manufacturer, importer, supplier:

US Headquarters
JohnsonDiversey, Inc.
8310 16th St.
Sturtevant, Wisconsin 53177-0902
Phone: 1-888-352-2249
MSDS Internet Address:
www.johnsondiversey.com

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
CAUTION. CAUSES EYE IRRITATION. MAY BE MILDLY IRRITATING TO SKIN.

Principle routes of exposure: Eye contact. Skin contact. Inhalation.
Eye contact: Moderately irritating to the eyes.
Skin contact: May be mildly irritating to skin.
Inhalation: None known.
Ingestion: May cause irritation to mouth, throat and stomach .

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Ethylene glycol	107-21-1	1 - 5%	=4000 mg/kg	=9530 µL/kg	200 mg/m^3
Sodium carbonate	497-19-8	1 - 5%	=4090 mg/kg	Not available	Not available
Quartz	14808-60-7	100	=500 mg/kg	Not available	Not available

4. FIRST AID MEASURES

Eye contact: Flush immediately with plenty of water. If irritation persists, get medical attention.
Skin contact: Flush immediately with plenty of water. If irritation develops get medical attention.
Inhalation: No specific first aid measures are required.
Ingestion: If swallowed, give a cupful of water or milk.
Aggravated Medical Conditions: None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.
Specific hazards: Not applicable
Unusual hazards: None known
Specific methods: No special methods required

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment
Environmental precautions and clean-up methods: Clean-up methods - large spillage. Shovel into suitable container for disposal. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:
Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage:
Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF THE REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:
No special ventilation requirements. General room ventilation is adequate.

Personal Protective Equipment

Eye protection: No special requirements under normal use conditions.
Hand protection: No special requirements under normal use conditions
Skin and body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Ethylene glycol	107-21-1	100 mg/m^3 (Ceiling)		100 mg/m^3 (Peak)
Quartz	14808-60-7	0.05 mg/m^3 (TWA)		0.1 mg/m^3 (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
pH: 10.4
Appearance: Paste
Color: Yellow - Green
Odor: Lavender
Specific gravity: 1.5497
Density: 12.93 lbs/gal
VOC: 0% *
Flash point: >200 (°F) >93.3 (°C)
Solubility: Soluble
Viscosity: No information available

Bulk density: No information available
Dilution pH: No information available.
Vapor density: No information available
Evaporation Rate No information available
Boiling point/range: Not determined
Melting point/range: Not determined
Decomposition temperature: Not determined
Autoignition temperature: No information available
Partition coefficient (n-octanol/water): No information available
Solubility in other solvents: No information available
Elemental Phosphorus: 0 %P

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Stability: The product is stable
Polymerization: Hazardous polymerization does not occur
Hazardous decomposition products: None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50 estimated to be greater than 5000 mg/kg
Component Information: See Section 3

Chronic toxicity: This product contains Quartz (silica) which is listed as a carcinogen, however, the formulation is a heavy, viscous liquid and therefore, chronic effects from exposure to respirable-size particles of this product are minimal.

Specific effects

Carcinogenic effects: None known
Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: None known

11. TOXICOLOGICAL INFORMATION

HAZARDOUS COMPONENTS

Ingredient(s)	CAS #	NTP	IARC	OSHA
Quartz	14808-60-7	X	1	X

12. ECOLOGICAL INFORMATION

Environmental Information: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Dispose of according to all federal, state and local applicable regulations

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories
All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

U.S. Regulations
California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Ethylene glycol	107-21-1	X	X	X	X
Water	7732-18-5	-	-	-	-
Sodium carbonate	497-19-8	-	-	-	-
Coconut Oil Based Soap	TS*	-	-	-	-
Tallow	61789-97-7	-	-	X	X
Quartz	14808-60-7	X	X	X	-

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Ethylene glycol	107-21-1	1 - 5%	5000		X

Ingredient(s)	CAA HAP	CAA ODS	CWA Priority Pollutants
Ethylene glycol	X		

SARA 311/312 Hazard Categories

Immediate:	X
Delayed:	-
Fire:	-
Reactivity:	-
Sudden Release of Pressure:	-

Canada
WHMIS hazard class: D2B Toxic materials .

Ingredient(s)	CAS #	NPRI
Ethylene glycol	107-21-1	X

16. OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC
Additional advice: None

16. OTHER INFORMATION

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Eli Lilly and Company
Material Safety Data Sheet

MSDS Index

Sodium Bicarbonate

Effective Date: 05-Aug-2004

Section 1 - Chemical Product and Company

Manufacturer:
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, IN 46285

Emergency Phone:
1-317-276-2000
CHEMTREC:
1-800-424-9300 (North America)
1-703-527-3887 (International)

Common Name: Sodium Bicarbonate

CAS Number(s): 144-55-8
EINECS Number: 2056-33-8
Chemical Name: Carbonic acid monosodium salt
Chemical Family: Inorganic salt
Chemical Formula: C H O3 . Na
Molecular Weight: 84.01
Synonym(s): Sodium bicarbonate tablets; Soludal; Meylon; Soda; Monosodium carbonate; Sodium hydrogen carbonate; Sodium acid carbonate; Bicarbonate of soda; Baking soda; Soda mint; NaHCO3; Sodium bicarbonate - cell culture grade; Sodium bicarbonate tablet mix
Lilly Serial Number(s): 237728
Lilly Item Code(s): QA049K; QA116D; QA192M; QA241X; QA281L; QA384W; QA476V; QD400T; QD472B; TA1260; TA1264; TA1265

See attached glossary for abbreviations.

Section 2 - Composition / Information on Ingredients

Ingredient	CAS
Sodium Bicarbonate	144-55-8

Exposure Guidelines:
Sodium bicarbonate - Exposure Guideline 1500 micrograms/m3 TWA for 12 hours, 2300 micrograms/m3 TWA for 8 hours. (Lilly-established guideline)
Dow Chemical Exposure Guideline 10 mg/m3 TWA.

Section 3 - Hazards Identification

Appearance: White crystalline powder or granules or compressed uncoated tablets
Physical State: Solid
Odor: Odorless

Emergency Overview

Emergency Overview Effective Date: 07-Aug-2002

Lilly Laboratory Labeling Codes:
Health 1 **Fire** 0 **Reactivity** 0

Primary Physical and Health Hazards: No Significant Health Hazards.

Caution Statement: No significant health hazards have been reported for Sodium Bicarbonate.

Routes of Entry: Inhalation and skin contact.

Effects of Overexposure: Material has low acute oral or inhalation toxicity. Material may be slightly irritating to the eyes, skin, and respiratory tract. Inhalation of dust may cause coughing.

Medical Conditions Aggravated by Exposure: None known.

Carcinogenicity: No carcinogenicity data found. Not listed by IARC, NTP, ACGIH, or OSHA.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water. Get medical attention.

Skin: Remove contaminated clothing and clean before reuse. Wash all exposed areas of skin with plenty of soap and water. Get medical attention if irritation develops.

Inhalation: Move individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, provide artificial respiration assistance (mouth-to-mouth) and call a physician immediately.

Ingestion: Call a physician or poison control center. No first aid procedures are normally required.

Section 5 - Fire Fighting Measures

Flash Point: Not applicable
UEL: Not applicable
LEL: Not applicable

Extinguishing Media: Use water, carbon dioxide, dry chemical, foam, or Halon.

Unusual Fire and Explosion Hazards: None known.

Hazardous Combustion Products: May emit toxic fumes when exposed to heat or fire.

Section 6 - Accidental Release Measures

Spills: Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions). Vacuum material with appropriate dust collection filter in place. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist material and remove by sweeping or wet wiping.

Section 7 - Handling and Storage

Lilly Warehouse Storage Category: 140X

Storage Conditions: Warehouse: 10 to 40 C (45 to 104 F). For certain items, other storage conditions may be required.

Section 8 - Exposure Controls / Personal Protection

See Section 2 for Exposure Guideline information.

Respiratory Protection: Use an approved respirator.

Eye Protection: Chemical goggles and/or face shield.

Ventilation: Laboratory fume hood or local exhaust ventilation.

Other Protective Equipment: Chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or face shield may not be required. Safety glasses are always required.

Section 9 - Physical and Chemical Properties

Boiling Point: Not applicable
Melting Point: Not applicable
Specific Gravity: 2.159
pH: 8.2 (1% solution)
Evaporation Rate: Not applicable
Water Solubility: 8.6 g/100 ml @ 20 C (68 F)
Vapor Density: Not applicable
Vapor Pressure: Not applicable

Section 10 - Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Incompatibility: May react with strong oxidizing agents (e.g., peroxides, permanganates, nitric acid, etc.) and strong acids.

Hazardous Decomposition: May emit toxic fumes when heated to decomposition.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

Acute Exposure

Oral:
Sodium bicarbonate - Rat, median lethal dose 4220 mg/kg.

Skin: No applicable information found.

Inhalation:
Sodium bicarbonate - Rat, median lethal concentration greater than 4740 mg/m3 (duration unspecified).

Skin Contact: No applicable information found.

Eye Contact:
Sodium bicarbonate - Rabbit, mild irritant

Chronic Exposure

Target Organ Effects: No applicable information found.

Reproduction:
Sodium bicarbonate - No teratogenic effects reported in rats or mice given large doses during pregnancy.

Sensitization: No applicable information found.

Mutagenicity:
Sodium bicarbonate - Negative in Ames assay.

Section 12 - Ecological Information

Ecotoxicity Data:
Sodium bicarbonate
Daphnia magna 48-hour median lethal concentration: 11.7 mmol/L to 26.3 mmol/L
Western mosquitofish 96-hour median lethal concentration: 5.6 g/L
Bluegill 96-hour median lethal concentration: 8.25 g/L

Rainbow trout median lethal concentration (duration unspecified): 7.7 g/L

Environmental Fate: No applicable information found.

Environmental Summary:
Sodium bicarbonate - This material is practically non-toxic to aquatic organisms. Material is soluble in water and may leach from soil into groundwater.

Section 13 - Disposal Considerations

Waste Disposal: Dispose of any cleanup materials and waste residue according to all applicable laws and regulations.

Section 14 - Transport Information

Regulatory Organizations:

DOT: Not Regulated

ICAO/IATA: Not Regulated

IMO: Not Regulated

Section 15 - Regulatory Information

Below is selected regulatory information chosen primarily for possible Eli Lilly and Company usage. This section is not a complete analysis or reference to all applicable regulatory information. Please consider all applicable laws and regulations for your country/state.

U.S. Regulations
Sodium bicarbonate
TSCA - Yes
CERCLA - Not on this list
SARA 302 - Not on this list
SARA 313 - Not on this list
OSHA Substance Specific - No

EU Regulations

EC Classification
Not assigned an overall EC classification.

Section 16 - Other Information

MSDS Sections Revised: Section 7.

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:
Eli Lilly and Company
Hazard Communication
317-433-7171

GLOSSARY:

ACGIH = American Conference of Governmental Industrial Hygienists
AIHA = American Industrial Hygiene Association
BEI = Biological Exposure Index
CAS Number = Chemical Abstract Service Registry Number
CERCLA = Comprehensive Environmental Response Compensation and Liability Act (of 1980)
CHAN = Chemical Hazard Alert Notice
CHEMTREC = Chemical Transportation Emergency Center
DOT = Department of Transportation
EC = European Community
EINECS = European Inventory of Existing Chemical Substances
ELINCS = European List of New Chemical Substances
EPA = Environmental Protection Agency
HEPA = High Efficiency Particulate Air (Filter)
IARC = International Agency for Research on Cancer
ICAO/IATA = International Civil Aviation Organization/International Air Transport Association
IEG = Lilly Interim Exposure Guideline
IMO = International Maritime Organization
Kow = Octanol/Water Partition Coefficient
LEG = Lilly Exposure Guideline
LEL = Lower Explosive Limit
MSDS = Material Safety Data Sheet
MSHA = Mine Safety and Health Administration
NA = Not Applicable, except in Section 14 where NA = North America
NADA = New Animal Drug Application
NAIF = No Applicable Information Found
NCI = National Cancer Institute
NIOSH = National Institute for Occupational Safety and Health
NOS = Not Otherwise Specified
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit (OSHA)
RCRA = Resource Conservation and Recovery Act
RQ = Reportable Quantity
RTECS = Registry of Toxic Effects of Chemical Substances

SARA = Superfund Amendments and Reauthorization Act
STEG = Lilly Short Term Exposure Guideline
STEL = Short Term Exposure Limit
TLV = Threshold Limit Value (ACGIH)
TPQ = Threshold Planning Quantity
TSCA = Toxic Substances Control Act
TWA = Time Weighted Average/8 Hours Unless Otherwise Noted
UEL = Upper Explosive Limit
UN = United Nations
WEEL = Workplace Environmental Exposure Level (AIHA)

Material Safety Data Sheet: **Simple Green® Lime Scale Remover**
Version No. 00004 Date of Issue: January 2007 *ANSI-Z400.1-2003 Format*

Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Simple Green® Lime Scale Remover
Additional Names: AROMA CLEAN™ by Simple Green® Bath, Tub & Tile Cleaner

Manufacturer's Product Code Numbers:

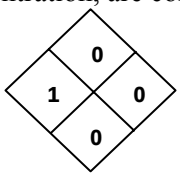
Lime Scale Remover		Aroma Clean Bath, Tub & Tile
50022 – 22 oz trigger spray bottle		16201 – 24 oz Trigger Spray Bottle
50032* – 32 oz trigger spray bottle	50128* – 1 gallon bottle	
50005* – 5 gallon pail	50155* – 55 Gallon Drum	* *GSA Available*

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Harbour, CA 92649 USA
Telephone: 800-228-0709 ● 562-795-6000 Fax: 562-592-3830
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-225-3924

Use of Product: Ready to use liquid for removal of soap scum, mineral scale, hard-water spots, calcium and lime deposits on hard, non-porous surfaces. Not for use on any natural stone surface.

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Eye irritant.
This product contains no substances which at their given concentration, are considered to be hazardous to health.



NFPA/HMIS Rating:
Health = 1 = slight
Fire, Reactivity, and Special = 0 = minimal

Principal Routes of Exposure: Eye, Skin contact, Ingestion
Eye Contact: Eye Irritant.
Skin Contact: Substance may cause slight skin irritation.
Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.
Medical Conditions: No medical conditions are known to be aggravated by exposure to Simple Green® Lime Scale Remover.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	% Weight	ACGIH TWA	Acute Toxicity LD_{50}
Urea monohydrochloride	506-89-8	3-5%	Not applicable	1121 mg/kg rat (oral)

Hazardous Substances Present: None
SARA 313 Substances Present: None
Clean Air Act Sec. 112 Substances Present: None

Section 4: FIRST AID MEASURES

Eye Contact: In case of eye contact, remove contact lenses and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact: Flush with water. Wash off the soap and water. Obtain medical attention if irritation persists. Wsh contaminated clothing well before reuse.
Inhalation: Not a normal route of exposure. If symptoms develop, move victim to fresh air. If symptoms persist, call a physician.
Ingestion: Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Section 5: FIRE FIGHTING MEASURES

Flash Point:	Not flammable
Hazardous Combustion Products:	May include, but not limited to, oxides of carbon
Suitable extinguishing media:	Treat for surrounding material.
Specific hazards:	Fire fighters should wear self-contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

Method for cleaning up: Before initiating cleanup, refer to hazard data on this MSDS

- Retrieve any useable product and store in properly marked containers
- Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container
- Prevent large spills from entering sewers and waterways.

Section 7: HANDLING AND STORAGE

Safe Handling:	Avoid contact with eyes. Wash hands immediately after contact to avoid hand-eye transfer.
Storage:	Keep out of reach of children. Keep containers tightly closed in cool, well-ventilated place.
Incompatible Products:	Bleach, mildew stain removers, caustics, oxidizers, reducers.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Hand Protection	Rubber
Eye Protection	Safety Glasses
Respiratory Protection	Not normally required
Other Protective Equipment	As required by employer code
Engineering measures	None, under normal processing

General hygiene conditions: There are no known hazards associated with this material when used as recommended.

The following general hygiene considerations are recognized as common good industrial hygiene practices:

- Avoid breathing vapor or mist.
- Avoid contact with eyes.
- Wash thoroughly after handling and before eating, drinking, or smoking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Lime Scale Remover is a pale aqua liquid; AROMA CLEAN is a pale purple liquid.		
Odor:	Lime Scale Remover has a wintergreen fragrance; AROMA CLEAN has a lavender fragrance.		
Vapor Density:	Not determined	**Water Solubility:**	Completely water soluble.
pH:	1.0 – 1.5	**Bulk Density:**	8.52 lbs/gallon
Boiling Point:	~ 100°C (~212°F)	**Flash Point:**	None observed to boiling point.
Freezing Point:	Ca. 0°C	**Insoluble matter:**	< 0.01%
Water Content:	> 70%	**VOCs:**	0 g/L per EPA Method 24
Specific Gravity:	1.0230		

Section 10: STABILITY AND REACTIVITY

Stability:	Stable
Materials to Avoid:	None known
Hazardous Decomposition Products:	None expected

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD_{50} (rat) - > 10 g/kg body weight
Toxicity extrapolated from ingredients. Animal testing not conducted.

Eye Irritation: This product may cause irritation to the eyes.

Dermal Irritation: Not expected under normal use conditions.

Repeat Exposure Via Skin Contact: No toxic effects are expected to be associated with normal daily exposure

Section 12: ECOLOGICAL INFORMATION

Hazard to wild mammals: Low, based on toxicology profile
Hazard to avian species: Low, based on toxicology profile
Hazard to aquatic organisms: > 100 mg/L (rainbow trout, 96 hours)
Chemical Fate Information: Biodegradable; Based on formula & biodegradability, the bioaccumulation potential is low.

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues/unused product: Dispose in accordance with all national and local regulations.
Empty Containers: Triple-rinse with water and offer for recycling if available in your area. Otherwise, dispose as non-hazardous waste.

Dispose of used or unused product, and empty containers in accordance with the local, State provincial, and Federal regulations for your location. Never dispose into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

DOT:	Not regulated for ground shipments	UN No.:	Not required.
Proper Shipping Name:	Cleaning Compound Class 55	Packing Group:	Not applicable

Section 15: REGULATORY INFORMATION

All components are listed on Canadian DSL, EINECS and TSCA Chemical Substances Inventory.

RCRA Status:	Not a hazardous waste.	CERCLA Status:	Not Listed.
TSCA TIR Reporting:	Not required / Not Listed.	CA PROP. 65 Status:	Not Listed.

Section 16: OTHER INFORMATION

Questions about the information found on this MSDS should be directed to:
SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT
15922 Pacific Coast Hwy. Huntington Harbour, CA 92649
Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri] *Fax:* 562/592-3830 *Email:* infoweb@simplegreen.com

DISCLAIMER: The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.

Material Safety Data Sheet

Number: DMN-308

Product Name: Sparkle Floor Cleaner, #2473

A liquid alkaline detergent.

Revised: 9/4/98

Damon Industries, Inc.
Box 2120
Alliance, OH 44601

24 hour Emergency Only phone: 1-800-535-5053
Information phone: 1-800-362-9850 or 330-821-5310
fax: 330-821-6355

Section 2 - Composition / Information on Hazardous Ingredients

Ingredient	Cas No.	Percent	Carcinogen
1-Butoxy-2-propanol	5131-66-8	2 - 10%	No
Potassium hydroxide	1310-58-3	2 - 5%	No

Section 3 - Hazards Identification

Emergency Overview: Concentrate is corrosive to all body parts. Diluted solutions may be irritating or corrosive depending on their strength. Excessive inhalation of vapors may cause irritation. Product is water based and presents little or no hazard in a fire. Product has a high pH and large amounts should not be allowed into sewers without neutralizing. A green liquid with a sharp odor.

Health Hazards: Corrosive, Irritant **Physical Hazards:** None

Primary Routes of Entry: X Through Skin X Inhalation X Ingestion

Potential Health Effects:

Eyes - concentrate and strong solutions cause eye damage. Milder solutions cause irritation and redness.
Skin - prolonged contact with concentrate and strong solutions can cause skin damage and loss. There is little or no effect if rinsed off thoroughly right away. Weaker solutions cause irritation.
Swallowing - may result in damage to mucous membranes and gastrointestinal irritation.
Breathing - excessive inhalation of mist or spray can cause coughing, irritation of nose and throat.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.
Skin Contact: With concentrate and strong (1:10) solutions immediately flush exposed area with running water for 15 minutes. Remove contaminated clothing and shoes. With weaker solutions wash exposed area with soap and water. If irritation persists, call a physician. Wash contaminated clothing before reuse.
Inhalation: If affected, move exposed person to fresh air. If irritation persists get medical attention.
Ingestion: If the product is swallowed, do NOT induce vomiting. If the affected person is conscious, give a glass of water or milk to drink. Get medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: None (ASTM D-56 closed cup)
Lower Explosive Limit: Not Applicable **Upper Explosive Limit:** Not Applicable
Extinguishing Media: Any
Special Fire Fighting Procedures: None.
Unusual Fire And Explosion Hazards: None.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Small spills of a few gallons may be cleaned up with a rag or mop. Larger spills should diked to prevent spreading and then collected into clean pails or drums.

Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet.

Keep from freezing.

Section 8 - Exposure Controls / Personal Protection

Ingredient	C.A.S. No.	Percent	TWA(source)	STEL	Ceiling
1-Butoxy-2-propanol	5131-66-8	2 - 10%	no established limits are available		
Potassium hydroxide	1310-58-3	2 - 5%	2 mg/m^3(2)	-	2 mg/m^3(3,4)

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous

Ventilation: Good room ventilation.
Respiratory Protection: None, except when spraying overhead use an approved respirator with an organic vapor cartridge.
Gloves: Use rubber or latex gloves when handling concentrate or strong dilutions. Persons with sensitive skin or who use the product for prolonged periods may wish to use rubber or latex gloves when using any dilution.
Eye Protection: Most uses of diluted product do not require eye protection although the use of safety glasses with side shields, especially for contact lens wearers, is always a good idea. Using concentrate or strong (1:10) solutions requires safety glasses with side shields. Overhead spraying requires goggles or a face shield, or if considerable spray will fall on the user, complete head and body protection.
Other Protective Equipment: An eyewash station should be located within 10 seconds travel time of the concentrate use/mixing area.

Section 9 - Physical and Chemical Properties

Boiling Point: 215° F.
Specific Gravity: 1.05
Percent Volatiles: 85%
Solubility In Water: Complete
Appearance and Odor: Green liquid with sharp odor.
Vapor Pressure: Not Available
Vapor Density: Not Available
Evaporation Rate: Same as water.
pH: concentrate 13.5 ± 0.5

Section 10 - Stability and Reactivity

Incompatibility: None
Hazardous Decomposition Products: None

Section 11 - Toxicological Information

Target Organs: None.

Section 12 - Ecological Information

When scrubbing outdoors or where the solution will enter a storm sewer, flood the cleaned area with plenty of water to dilute and reduce pH of run-off. Do not use more product than necessary. Do not dispose of unusable product in the environment. Be sure to comply with any applicable regulations.

Section 13 - Disposal Considerations

Waste Disposal Method: Dispose of up to 2 gallons of concentrate in the sanitary sewer with a large amount of water. Larger amounts must be neutralized to within the pH limits of your waste water treatment system.

Section 14 - Transport Information

D.O.T. Hazard Class: Not considered hazardous by D.O.T., I.M.C.O., I.A.T.A. or U.N.

Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

Section 16 - Other Information

NFPA / HMIS Ratings:	**Health:**	2	0 = Insignificant	1 = Slight	2 = Moderate
	Flammability:	0	3 = Serious	4 = Severe	
	Reactivity:	0			

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.

JohnsonDiversey
Clean is just the beginning

VANISH NON-ACID BOWL & BATHROOM CLEANER II

HMIS		NFPA	Personal protective equipment
Health	1	1	None Required
Fire Hazard	1	1	
Reactivity	0	0	

Version Number: 1 *Preparation date: 2005-08-23*

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: VANISH NON-ACID BOWL & BATHROOM CLEANER II

MSDS #: 126478001
Product code: 126478001, 90158
Recommended use: Cleaning product.

Manufacturer, importer, supplier:

US Headquarters
JohnsonDiversey, Inc.
8310 16th St.
Sturtevant, Wisconsin 53177-0902
Phone: 1-888-352-2249
MSDS Internet Address:
www.johnsondiversey.com

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Moderately irritating to the eyes. Moderately irritating to the skin.

Principle routes of exposure: Inhalation. Skin contact. Eye contact.
Skin contact: May be mildly irritating to skin.
Eye contact: Moderately irritating to the eyes.
Inhalation: None known.
Ingestion: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient	CAS #	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
N-alkyl dimethyl benzyl ammonium chlorides	68391-01-5	0.1 - 1.5%	Not available	Not available	Not available
N-alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	0.1 - 1.5%	Not available	Not available	Not available
Isopropyl alcohol	67-63-0	1 - 5%	5000 mg/kg (rat)	12800 mg/kg (rabbit)	16000 ppm/8H (rat)

4. FIRST AID MEASURES

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. If irritation persists, get medical attention.
Skin contact: Flush immediately with plenty of water. Get medical attention if irritation occurs.
Inhalation: No specific first aid measures are required.
Ingestion: No specific first aid measures are required.
Aggravated Medical Conditions: Persons with pre-existing skin disorders may be more susceptable to irritating effects

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam.

Specific hazards: Although this product has a flash point below 200 Deg. F, it is an aqueous solution containing an alcohol and does not sustain combustion.
Unusual hazards: None known.
Specific methods: No special methods required.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Put on appropriate personal protective equipment (see Section 8.).
Environmental precautions and clean-up methods: Use appropriate containment to avoid environmental contamination. Sweep up and shovel into suitable containers for disposal. Keep in suitable and closed containers for disposal. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:
Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. FOR COMMERCIAL AND INDUSTRIAL USE ONLY
Storage:
Keep tightly closed in a dry, cool and well-ventilated place. Protect from freezing . Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:
None known

Personal Protective Equipment

Eye protection: No special requirements under normal use conditions
Hand protection: No special requirements under normal use conditions
Skin and body protection: No special requirements under normal use conditions
Respiratory protection: No special requirements under normal use conditions
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Ingredient	CAS #	ACGIH	OSHA	Mexico
Isopropyl alcohol	67-63-0	400 ppm (STEL) 200 ppm (TWA)	980 mg/m^3 400 ppm	1225 mg/m^3 (STEL) 980 mg/m^3 (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Clear Blue
Odor: No information available
Specific gravity: No information available
Dilution pH: No information available
Bulk density: No information available
Vapor density: No information available
Evaporation rate: No information available
Solubility in other solvents: No information available
Viscosity: No information available
Partition coefficient (n-octanol/water): No information available

Appearance: No information available
Boiling point/range: >199.4 (°F)
Melting point/range: <32 (°F)
pH: 7.5
Density: No information available
Decomposition temperature: Not determined
Autoignition temperature: No information available
Solubility: Soluble
VOC: 2%

Flash point: 141.8 (°F) 61 (°C)

10. STABILITY AND REACTIVITY

Stability: The product is stable.
Polymerization: Not applicable.
Hazardous decomposition products: None reasonably foreseeable
Materials to avoid: None known .
Conditions to avoid: Keep away from heat.

11. TOXICOLOGICAL INFORMATION

Acute toxicity LD50 estimated to be greater than 5000 mg/kg.
Component Information: See Section 3

Chronic toxicity: None known

Specific effects

Carcinogenic effects: None known

Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: None known

12. ECOLOGICAL INFORMATION

Environmental Information: When used for its intended purpose this product should not cause adverse effects in the environment

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
PESTICIDAL WASTE - Observe all applicable Federal/Provincial/State regulations and Local/Municipal ordinances regarding disposal of pesticide wastes .

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories
All components of this product are listed on the following inventories: Korea (ECL), Philippines (PICCS), China (IECSC).

U.S. Regulations
EPA Reg. No. : 70627-3
California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Water	7732-18-5	-	-	-	-	-	-
Isopropyl alcohol	67-63-0	Listed	Listed	Listed	Listed	Listed	Listed
Alcohol ethoxylates	68131-39-5	-	-	-	-	-	-

CERCLA / SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Isopropyl alcohol	67-63-0	1 - 5%	100		Listed.

Canada
WHMIS hazard class: Not for sale in Canada .

Ingredient	CAS #	NPRI
Isopropyl alcohol	67-63-0	Listed

16. OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC
Additional advice: None

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

MATERIAL SAFETY DATA SHEET

24 HOUR EMERGENCY CHEMTREC TELEPHONE 1-(800)-424-9300
24 HOUR MEDICAL EMERGENCY TELEPHONE 1-(888)-324-7596

WD-40 COMPANY, 1061 Cudahy Place (92110), P.O. Box 80607, San Diego, CA 92138-0607
TELEPHONE (619)-275-1400

DATE PREPARED: December, 2004

I. GENERAL INFORMATION

PRODUCT NAME: Maximum Strength X-14 Instant Mildew Stain Remover
PRODUCT CATEGORY: Household Cleaner

II. INGREDIENTS

HAZARDOUS INGREDIENTS:	%	CAS #	TLV/PEL	HAZARD DATA
Sodium hypochlorite	3-6%	7681-52-9	Not established	Irritant/Corrosive
Sodium carbonate	0.5-2%	497-19-8	Not established	Irritant

III. HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
SKIN: May cause skin irritation.
EYE: Causes eye irritation.
INHALATION: Mist may be irritating to the upper respiratory tract. Not recommended for use by persons with heart conditions or chronic respiratory problems.
INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

FIRST AID PROCEDURE:
SKIN: Flush immediately and thoroughly with water.
EYE: Flush with large amounts of water for at least 15 minutes while holding eyelids open. Contact a physician.
INHALATION: Discontinue use. Remove to fresh air.
INGESTION: Do not induce vomiting. Drink several glasses of water. Call a poison control center or a physician immediately. Do not give anything by mouth to unconscious individuals.

IV. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Safety glasses should be worn in an industrial/institutional setting.
SKIN PROTECTION: For sensitive skin or prolonged use, wear rubber gloves.
RESPIRATORY PROTECTION: Not needed when product is used according to label directions. Appropriate cartridge respirator may be needed in an institutional setting. Use in a well-ventilated area.

V. FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE LIMITS: Non-flammable liquid.
EXTINGUISHING MEDIA: As applicable to type of fire.
SPECIAL FIRE FIGHTING PROCEDURES: Fire can be fought with standard procedures but hazards are present that can be handled safely by wearing self contained breathing apparatus.
UNUSUAL FIRE/EXPLOSION HAZARDS: None

VI. ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE: Wipe up spill with absorbent material. Rinse spill area with water to remove residue.
WASTE DISPOSAL METHOD: Do not reuse container. Dispose of in accordance with federal, state and local regulations.

VII. SPECIAL PRECAUTIONS

HANDLING: Avoid contact with eyes, contact lens or eyeglasses. Avoid contact with skin. Avoid breathing fumes.
STORAGE: Do not store next to acids or heat source. Keep container tightly closed.
TRANSPORTATION: In accordance with federal, state and local regulations.

VIII. REACTIVITY DATA

STABILITY: Stable.
INCOMPATIBILITY: Do not mix with acids, ammonia or other household chemicals.
HAZARDOUS DECOMPOSITION PRODUCTS: When heated can form carbon monoxide, carbon dioxide and chlorine.

IX. PHYSICAL DATA

BOILING POINT (°F): Not determined.
VAPOR PRESSURE (mm Hg): Not determined.
VAPOR DENSITY (AIR=1): Not determined.
APPEARANCE AND ODOR: Clear, yellow liquid with chlorine odor.

SPECIFIC GRAVITY (H_2O=1): 1.03-1.15
% VOLATILE BY VOLUME: Greater than 85%.
SOLUBILITY IN WATER: Soluble
pH: 11.5-12.0

The information provided in this Material Safety Data Sheet has been compiled from our experience and data with similar commercially available materials and is believed to be accurate. No guarantee of accuracy is made. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and disposal procedures.

PLEASE BE ADVISED THAT THIS MATERIAL SAFETY DATA SHEET IS INTENDED FOR INDUSTRIAL PURCHASERS WHICH MAY USE LARGE QUANTITIES OF THE PRODUCT. DEPENDING ON THE SCOPE OF TOXICOLOGICAL TESTS CONDUCTED ON THE FORMULATION AND/OR THE RAW MATERIALS, THE LISTED HAZARD DATA MAY REFLECT HAZARDS RELATED TO THE FORMULATION AS A WHOLE OR TO INDIVIDUAL COMPONENTS AT 100% CONCENTRATION. THEREFORE, CERTAIN WARNINGS AND HAZARD STATEMENTS CONTAINED ON THIS MSDS MAY NOT BE APPLICABLE TO OR INCLUDED IN THE PACKAGE LABELING AVAILABLE TO THE GENERAL PUBLIC.

SIGNATURE: Peter Fougner TITLE: Director - Global Quality Assurance

REVISION DATE: December, 2004 SUPERSEDES: October, 2003

RECKITT BENCKISER

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	**PROFESSIONAL EASY-OFF® STAINLESS STEEL CLEANER & POLISH (AEROSOL)**
Product Description	Aerosol surface cleaner & polish for stainless steel.
Manufacturer	Reckitt Benckiser North America, Inc. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, N.J. 07054-0225
Product Identifier	Not available.
Item Number	378185
Formula Number	786-059 (F/F 378185)
UPC Number	62338-76461 (net wt. 17 oz. / 1 lb. 1 oz. / 482 gm.)

MSDS#	Not available.
Validation Date	**8/5/2004**
Print Date	8/5/2004

In case of Emergency:	Telephone: 800-677-9218 (Professional Products)
Transportation Emergencies:	Chemtrec: 1-800-424-9300 (U.S. & Canada) Outside the U.S & Canada (North America), call: 703-527-3887

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
1) ISOBUTANE	75-28-5	10-12	TWA: 1900 (mg/m^3) from ACGIH (TLV) [United States] TWA: 800 from ACGIH (TLV) [United States]
2) PETROLEUM DISTILLATE, HYDROTREATED LIGHT (ISOPARAFFINIC HYDROCARBON)	64742-47-8	10-12	TWA: 300 from ACGIH (TLV) [United States]
3) SORBITAN SESQUIOLEATE	8007-43-0	2-3	Not available.
4) PROPANE	74-98-6	6-8	TWA: 1000 (ppm) from OSHA (PEL) [United States] TWA: 1800 (mg/m^3) from OSHA (PEL) [United States] TWA: 2500 (ppm) from ACGIH (TLV) [United States]

Section 3. Hazards Identification

Emergency Overview

CAUTION:Contents under pressure. May cause eye irritation. Avoid contact with eyes and skin. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120° F (50° C).

KEEP OUT OF REACH OF CHILDREN

Section 4. First Aid Measures

Eye Contact

In case of eye contact, IMMEDIATELY rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing for at least 15 minutes. If irritation persists, consult a physician.

Skin Contact

In case of skin contact, wash skin thoroughly with soap and water. If irritation persists, consult a physician.

Inhalation

None required under recommended use conditions. Remove to fresh air.

Ingestion

Contact a physician immediately. Do not induce vomiting. NEVER give an unconscious person anything to ingest.

NOTE TO PHYSICIAN: Contains 10-12% petroleum distillates.

Continued on Next Page

Section 5. Fire and Explosion Data

Flammability	See Section 14 for any Shipping Classifications.
Flash Point	Not applicable. Flame extension greater than 18 inches or 45 cm.
Explosive Limits in Air	Not available.
Products of Combustion	Not available.
Fire and Explosion Hazards	CONTENTS UNDER PRESSURE. Do not use or store near heat or open flame. Do not puncture or incinerate. Exposure to temperatures above 120°F (50°C) may cause bursting.
Fire Fighting Media and Instructions	Use water spray, foam, dry chemical or carbon dioxide, as suitable, for the surrounding fire.
Special Fire Fighting Instructions	Wear self-contained breathing apparatus and protective clothing appropriate for fighting a typical chemical fire. Move containers away from fire, if possible and safe to do so. Use water spray to cool fire-exposed containers. Provide shielding for venting, rupturing or bursting containers.

Section 6. Accidental Release Measures

Accidental Spill	Small spills: Clean up small spills and drips immediately with dry inert absorbent material and wash surface with water. Wipe Dry. Wrap absorbed material in plastic bag and dispose of as household waste. Large spills or uncontrolled releases of concentrated product in situations other than normal use (as directed): Eliminate all sources of ignition and ventilate the area with equipment rated for use in flammable environments. Collect liquid and store in metal containers for disposal. Dispose of in accordance with local, state and federal regulations.

Section 7. Handling and Storage

Handling and Storage	CAUTION: CONTENTS UNDER PRESSURE. May cause eye irritation. Avoid contact with eyes and skin. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120°F (50°C). Do not use on floors or bathtubs. Store containers in an upright position in a cool, dry place in areas inaccessible to children. KEEP OUT OF REACH OF CHILDREN.

Section 8. Exposure Controls/Personal Protection

Ventilation Requirements	Special ventilation is not required for the normal handling and use of this product when following the label instructions. For occupational situations, use sufficient ventilation to keep hazardous ingredients below their Threshold Limit Values (see Section #2).
Eye Protection	Eye irritation may result from direct contact with the spray. If eye contact is possible, splashproof safety glasses, chemical goggles or full face shield are recommended. Emergency responders should wear full eye and face protection.
Skin Protection	May cause skin irritation. Emergency responders should wear impermeable gloves.
Respiratory Protection	None required under normal use conditions. Emergency responders should wear suitable respiratory protection where long term exposure to large areas of spilled liquid is possible such as a major spill, a fire or a clean-up operation.
Other Protection	When handling in large quantities, for prolonged periods of time with expected skin contact or responding to emergency situations, the use of appropriate skin protection suitable for the food service industry is recommended. Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Work/Hygienic Practices	Wash thoroughly with soap and water after handling.

Continued on Next Page

Section 9. Physical and Chemical Properties

Description	Aerosol container.
pH	Not available.
Boiling/Condensation Point	Not applicable.
Specific Gravity	0.947 @ 25°C (conc.)
Vapor Pressure	Not available.
Vapor Density	Not available.
Viscosity	Not available.
Solubility	Not applicable.
Physical Chemical Comments	50 PSIG @ 70°F.

Odor	Oleate - fatty odor. Solvent odor.
Color	White to slightly off-white.

Section 10. Stability and Reactivity Data

Chemical Stability	The product is stable.
Conditions of Instability	Do not expose to heat or store at temperatures above 120°F (50°C).
Incompatibility with Various Substances	None known.
Hazardous Decomposition Products	None known.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Exposure effects

Eye Contact	May cause eye irritation.
Skin Contact	None expected under recommended use conditions. May be irritating to skin. For sensitive skin or prolonged use, wear rubber gloves.
Inhalation	None expected under recommended use conditions.
Ingestion	Ingestion is unlikely through the normal recommended use of this product. Liquid phase of this product may present an aspiration hazard if ingested.
Carcinogenicity	Not listed as carcinogenic by OSHA, NTP or IARC.

Section 12. Ecological Information

Ecotoxicity	Not available.

Continued on Next Page

Section 13. Disposal Considerations

Waste Disposal	Container disposal: Empty containers may be included with domestic refuse for disposal in landfill. This container may be recycled in communities where aerosol can recycling is available. Before offering for recycling, empty the can by using the product according to the label instruction. DO NOT PUNCTURE OR INCINERATE! Large Quantities: Dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

DOT Classification	Consumer Commodity, ORM-D
Proper Shipping Name	Consumer Commodity.
DOT Identification Number	Not applicable.
Packing Group	Not applicable.
Maritime Transportation	Not applicable.
Hazardous Substances Reportable Quantity	Not applicable.
Special Provisions for Transport	Not applicable.
TDG Classification	Consumer Commodity / Limited Quantity, Transborder Consignment.
ADR Classification	Not applicable.
IMDG Classification	Aerosols, Flammable, Class 2.1, UN1950 - Limited Quantity.
IATA Classification	Aerosols, Flammable, Class 2.1, UN1950 - Limited Quantity.

Section 15. Regulatory Information

Federal and State Regulations	SARA Title III, Section 313 Toxic Chemical Notification & Release Reporting: None California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act: None	
Other Classifications	**WHMIS (Canada)**	Not a WHMIS controlled product.

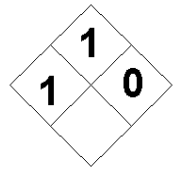
Continued on Next Page

Section 16. Other Information

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	3
Reactivity	0
Personal Protection	D

National Fire Protection Association (U.S.A.)



	NFPA Aerosol Level 1, per NFPA 30B
Validated by Product Safety on 8/5/2004.	**Printed 8/5/2004.**

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

JohnsonDiversey
Clean is just the beginning

MR. MUSCLE OVEN AND GRILL CLEANER

HMIS		NFPA	Personal protective equipment
Health	3	3	
Fire Hazard	4	4	
Reactivity	0	0	

Version Number: 1

Preparation date: 2005-03-08

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: MR. MUSCLE OVEN AND GRILL CLEANER

MSDS #: 126040004
Product code: 126040004, 3694087, 91206
Recommended use: Oven and Grill Cleaner.

Manufacturer, importer, supplier:

Consumer Branded Professional Products, Div.
JohnsonDiversey, Inc.
8310 16th Street
Sturtevant, Wisconsin 53177-0902
Phone: (888) 352-2249

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
DANGER. CAUSES EYE AND SKIN BURNS ON CONTACT . HARMFUL OR FATAL IF SWALLOWED. CONTENTS UNDER PRESSURE.

Principle routes of exposure: Eyes. Skin. Inhalation.
Skin contact: Corrosive. May cause permanent damage.
Eye contact: Corrosive. Causes permanent eye damage, including blindness.
Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.
Ingestion: Corrosive. Causes burns to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient	CAS #	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
Diethylene glycol butyl ether	112-34-5	10 - 20%	4500 mg/kg (rat)	2700 mg/kg (rabbit)	Not available
Sodium hydroxide	1310-73-2	1 - 5%	140 mg/kg (rat)	Not available	Not available
Monoethanolamine	141-43-5	1 - 5%	1720 mg/kg (rat)	1 mL/kg (rabbit)	Not available
Butane	106-97-8	1 - 5%	Not available	Not available	65.8 g/m^3 (rat)
Isobutane	75-28-5	1 - 5%	Not available	Not available	Not available

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.
Skin contact: Immediately wash off with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation: If breathing is affected, remove to fresh air. Get medical attention immediately.
Ingestion: Do not induce vomiting. Rinse mouth, then immediately drink one cupful of water or milk . Never give anything by mouth to an unconscious person. Get medical attention immediately.
Aggravated Medical Conditions: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects .

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, water spray, foam .
Specific hazards: Aerosol product - Containers may rocket or explode in heat of fire.

Unusual hazards: Corrosive material (See sections 8 and 10).
Specific methods: Use water spray to keep fire-exposed containers cool. Aerosol Product - Containers may rocket or expode in heat of fire.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Put on appropriate personal protective equipment (see Section 8.). Remove all sources of ignition.
Environmental precautions and clean-up methods: Prevent product from entering drains. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:
Avoid contact with skin, eyes and clothing. ALWAYS WEAR LONG RUBBER GLOVES AND EYE PROTECTION WHEN SPRAYING AND WIPING. Do not spray toward face. Wash hands and arms after use. Do not spray on or let spray contact pilot light, electrical connections, switches, light bulbs, heating elements, receptacles, or thermostats. Spray may cause electric short. Do not let product contact floor coverings, linoleum, aluminum, copper, chrome, painted surfaces or plastics. Do not use on continuous or self-cleaning ovens
. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage:
Protect from freezing . Store in a cool, dry, well ventilated area away from heat or open flame . Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 degrees C or 120 degrees F. Do not pierce or burn, even after use. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:
Good general ventilation should be sufficient to control airborne levels . Respiratory protection is not required if good ventilation is maintained .

Personal Protective Equipment

Eye protection: Chemical splash goggles.
Hand protection: Chemical resistant gloves. Includes. rubber gloves. neoprene gloves.
Skin and body protection: Boots, Chemical resistant . If major exposure is possible, wear suitable protective clothing and footwear.
Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Ingredient	CAS #	ACGIH	OSHA	Mexico
Sodium hydroxide	1310-73-2	2 mg/m^3 (Ceiling)	2 mg/m^3 (CEILING)	2 mg/m^3 (Ceiling)
Monoethanolamine	141-43-5	6 ppm (STEL) 3 ppm (TWA)	8 mg/m^3 3 ppm (TWA) 15 mg/m^3 6 ppm (STEL)	8 mg/m^3 (TWA) 15 mg/m^3 (STEL)
Butane	106-97-8	1000 ppm (TWA)	1900 mg/m^3 800 ppm (TWA)	1900 mg/m^3 (TWA)
Isobutane	75-28-5	1000 ppm (TWA)		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Aerosol
Color: Light brown
Odor: Citrus
Specific gravity: 1.00 g/cc
Dilution pH: No information available
Bulk density: No information available
Vapor density: No information available
Evaporation rate: No information available
Solubility in other solvents: No information available
Viscosity: No information available
Partition coefficient (n-octanol/water): No information available

Appearance: Liquid Aerosol
Boiling point/range: Not determined
Melting point/range: Not determined
pH: 13.0
Density: 1.00 g/ml
Decomposition temperature: Not determined
Autoignition temperature: No information available
Solubility: Soluble
VOC: No information available

Flash point: <19.4 (°F) <-7 (°C)

10. STABILITY AND REACTIVITY

Stability: The product is stable
Polymerization: Hazardous polymerisation does not occur
Hazardous decomposition products: None reasonably foreseeable
Materials to avoid: Strong acids. Strong oxidising agents.
Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Corrosive .
Component Information: See Section 3

Chronic toxicity: None known

Specific effects
Carcinogenic effects: None known
Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: None known

12. ECOLOGICAL INFORMATION

Environmental Information: When used for its intended purpose this product should not cause adverse effects in the environment

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Dispose of according to all federal, state and local applicable regulations
RCRA Hazard Class: D002

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories
All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

U.S. Regulations
California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Diethylene glycol butyl ether	112-34-5	-	Listed	Listed	-	-	-
Water	7732-18-5	-	-	-	-	-	-
Sodium hydroxide	1310-73-2	Listed	Listed	Listed	Listed	Listed	Listed
Monoethanolamine	141-43-5	Listed	Listed	Listed	Listed	Listed	Listed
Butane	106-97-8	Listed	Listed	Listed	Listed	Listed	Listed
Isobutane	75-28-5	Listed	Listed	Listed	-	Listed	Listed

CERCLA / SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Diethylene glycol butyl ether	112-34-5	10 - 20%			Listed.
Sodium hydroxide	1310-73-2	1 - 5%	1000		
Butane	106-97-8	1 - 5%	100		
Isobutane	75-28-5	1 - 5%	100		

Ingredient	CAA HAP	CAA ODS	CWA Priority Pollutants
Diethylene glycol butyl ether	Listed.		

SARA 311/312 Hazard Categories
Immediate: Yes

Canada
WHMIS hazard class: E Corrosive material , A Compressed gases.

16. OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC

Additional advice: None

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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 499185 ZENAGEL**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Sodium Hydroxide	1310-73-2	2 mg/m^3 ceiling
Butane	106-97-8	800ppm
Triethylene Glycol	112-27-6	N.A.
Propane	74-98-6	2500ppm
Ethanolamine	141-43-5	3ppm

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 567^0 F	Specific Gravity(H_2O=1):	0.99 $\pm$ 0.05
Solubility in Water:	Soluble	Evaporation Rate:	Slower than Ether
pH:	13.5 $\pm$ 0.5	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Non-Flammable
Flash Point(Propellant):	<0^{O}F
Flammable Limits(Propellant):	LEL: 0.9 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	Acids
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 499185

MSDS - Material Safety Data Sheet

Product Name: CARPET AND UPHOLSTERY ALL PURPOSE FOAM CLEANER

MSDS No.: MPC22

I. Basic Information:

Manufacturer: RADIATOR SPECIALTY COMPANY

Address: 600 RADIATOR ROAD

City, ST Zip: INDIAN TRAIL, NC 28079

Emergency Contact: Rocky Mountain Poision Control Center

Emergency Telephone Number: 303-623-5716

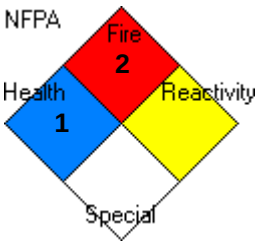
Contact: Robert Geer

Information Telephone Number: 704-684-1811

Last Update: 01/18/2008 **Expiration Date:**

Chemical State: [X] Liquid [ ] Gas [ ] Solid

Chemical Type: [ ] Pure [X] Mixture



1	Health
2	Flammability
0	Reactivity
B	Pers. Protection

II. Ingredients:

[ ] **Trade Secret**

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SUB Z	SARA 313	OSHA PEL	ACGIH TLV	Other Limits
111-76-2	2-Butoxyethanol	1-5					X	25 ppm	25 ppm	
106-97-8	Butane	1-4						N/E	800 ppm	
74-98-6	Propane	1-4						N/E	1000 ppm	
1310-73-2	Sodium hydroxide	0-3						2 mg/m3	2 mg/m3	

III. Hazardous Identification:

Hazard Category:

[X] Acute [ ] Chronic [ ] Fire [X] Pressure [ ] Reactive

Hazardous Identification Information:

CAUTION: Eye Irritant, Contents Under Pressure.

Level 1 Aerosol

IV. First Aid Measures:

Route(s) of Entry:

Absorption, Eye, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

See signs and symptoms below.

Signs and Symptoms:

Eye Contact: Direct spray of vapors may be irritating or harmful to eyes.
Skin Contact: Prolonged contact may cause irritation due to defatting of skin.
Inhalation: High concentration of vapors may irritate nose and throat and cause headaches and nausea.
Ingestion: Can cause irritation, gastric disturbances, and nausea..

Medical Conditions Generally Aggravated by Exposure:

MSDS - Material Safety Data Sheet

Product Name: CARPET AND UPHOLSTERY ALL PURPOSE FOAM CLEANER

MSDS No.: MPC22

None known

Emergency and First Aid Procedures:

Eye Contact: Flush eyes with water for 15 minutes while lifting upper and lower eyelid. Get prompt medical attention. .
Skin Contact: Wash with soap and water. If irritation persists, get prompt medical attention.
Inhalation: Move to fresh air. If breathing becomes difficult get prompt medical attention.
Ingestion: Drink water or milk. Call Poison Control Center, physician, or hospital emergency room immediately.

Other Health Warnings:

None known

V. Fire Fighting Measures:

Flash Point: None **Lower Explosive Limit:** N/D **Upper Explosive Limit:** N/D

F.P. Method: TCC

Fire Extinguishing Media: Water Fog, Foam, Carbon Dioxide, Dry Chemical

Special Fire Fighting Procedures:

Wear self-contained , positive pressure breathing apparatus and protective clothes. Cool containers exposed to heat with water fog.

Unusual Fire and Explosion:

Use shield to protect from venting, rupturing, or bursting cans.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Use appropiate protective equipment. Contain spill and then absorb spill with inert material or rags and scoop into a chemical waste container. Neutralize remaining traces of material and flush with water followed by liberal covering with sodium bicarbonate. All clean-up material should be removed and placed in approved containers for disposal. Rinse water may be disposed of down a sanitary sewer system if authorized by the local municipality.

VII. Handling and Storage:

Precautions to be Taken:

Use with adequate ventilation. Do not take internally. Do not expose to heat or store at temperatures above 120 F. Do no puncture or incinerate container.

Other Precautions:

Avoid contact with strong oxidizing agents.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

See Section 2 for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

See Section 2 for applicable exposure limits. For prolonged exposure wear protective safety glasses, gloves, and apron.

MSDS - Material Safety Data Sheet

Product Name: CARPET AND UPHOLSTERY ALL PURPOSE FOAM CLEANER

MSDS No.: MPC22

IX. Physical and Chemical Properties:

Boiling Point: 212 F

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): < 1

Vapor Pressure (mm Hg.): N/D

Specific Gravity (H20 = 1): 1.00000

Vapor Density (AIR = 1): N/D

Solubility In Water: Soluble

Appearance and Odor:
White spray foam with light citrus floral scent

Other Information: pH: 11.5 - 12.5

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Avoid contact with strong oxidizing agents

Decomposition/By Products:

Carbon Monoxide, Carbon Dioxide

Hazardous Polymerization:

Will not occur

XI. Toxicological Information:

N/D

XII. Ecological Information:

N/D

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

XIV. Transport Information:

DOT Hazard Class: ORM-D
Shipping Name: Consumer Commodity

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping purposes.

XV. Regulatory Information:

See Section 2 for SARA Reportable Chemicals.

USA TSCA: All components of this material are listed on the US TSCA Inventory.

MSDS - Material Safety Data Sheet

Product Name: CARPET AND UPHOLSTERY ALL PURPOSE FOAM CLEANER

MSDS No.: MPC22

XVI. Other Information:

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

N/E: Not Established
N/D: Not Determined
N/A: Not Applicable
N/AV: Not Available

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.

MATERIAL SAFETY DATA SHEET

Complies with OSHA hazard communication standard 29 CFR 1910.1200

Scot Laboratories
16841 Park Circle Drive
Chagrin Falls, OH 44023

Phone: (440) 543-3033
Fax: (440) 543-1825
Date: September 26, 2000

HMIS Rating
Health- 1
Fire- 0
Reactivity-0
0= minimal, 1= slight, 2= moderate, 3= serious, 4= severe

SECTION I - Product Identification

Product Name: **Carpet Shampoo for Extraction Cleaners** Code: **237**

SECTION II - Hazardous Ingredients/Identity Information - NONE

SECTION III - Physical/Chemical Characteristics

Physical State:	Liquid	Vapor Density (AIR = 1):	Heavier than air
Color:	Clear, Lt. Amber	Vapor Pressure (mm Hg):	Unknown
Odor:	Pleasant	Solubility in Water:	Complete
Boiling Point:	212 ^{o}F	Specific Gravity (H_2O):	1.055
Melting Point:	32 ^{o}F	Evaporation Rate:	< 1 (Butyl Acetate = 1)

SECTION IV - Fire and Explosion Hazard Data

Flash Point:	None	Fire Fighting Procedure:	None
Flammability Limits in Air:	N/A	Unusual Fire or Explosion Hazards:	None
Extinguishing Media:	N/A		

SECTION V - Reactivity Data

Stability: Stable
Material to Avoid: Do not mix with other chemicals. Follow instructions on label.
Conditions to Avoid: Unknown
Hazardous Decomposition or Byproducts: Unknown (Hazardous Polymerization will not occur)

SECTION VI - Health Hazard Data

Product hazard classification: None
Carcinogenic ingredients: Unknown
Effects of overexposure: Ingestion may cause nausea or diarrhea. May be irritating to eyes.
Medical Conditions aggravated by use: Unknown
First Aid Procedures:
INGESTION: Do not induce vomiting, drink plenty of water, contact a physician immediately.
SKIN/EYE CONTACT: - Flush with water for 15 minutes. If irritation persists, consult a physician.

SECTION VII - Precautions for Safe Handling and Use

In case of Release or Spill: Recover liquid with absorbent. Mop up or wet vac. Rinse area with water to remove.
Waste Disposal Method: Small amounts - down drain or sanitary landfill. Large amounts - obey local ordinances.
Handling and Storing: Do not store near heat. Do not freeze.
Other Precautions: If frozen, thaw to room temperature and mix before using. Do not pour unused portion back into container - it may contaminate product.

SECTION VIII - Control Measures

Gloves:	None	Respirator:	None
Eye Protection:	None	Ventilation:	Local exhaust is normally adequate.
Other Protection:	None	Work/Hygienic Practices:	Follow good manufacturing and housekeeping rules.

SECTION IX - Special Precautions - None

SECTION X - Department of Transportation

Shipping Hazard Classification: None

DISCLAIMER

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Scot Laboratories' control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS. Various government agencies (e.g., DOT, EPA, FDA) may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to

ensure full compliance.

Manufactured By: **Product Name:** **CARPET SPOT CLEANER**

PRODUCTS CHEMICAL COMPANY **6400 Herman Av Cleveland OH 44102** **216-281-1155**

EMERGENCY: phone number involving spill, leak, fire or accident: **INFOTRAC 800-535-5053**

MATERIAL SAFETY DATA ***(Prepared According to 29CFR 1910,1200)***

1611

SECTION 1 -- PRODUCT IDENTIFICATION

Product Code # 1611

PRODUCT NAME:

PRODUCT TYPE: CARRPET SPOT CLEANER

COMPANY NAME:

COMPANY ADDRESS:

Proper Shipping Name: COMPOUND, CLEANING LIQUID, NOI

HMIS Rating **Health ... 1**
Fire ... 0
Reactivity ... 0
Personal Protection ... B

Formula Proprietary

SECTION 2 -- INGREDIENTS

Revision Date: 08/06

CHEMICAL NAME	CAS NO.	PERCENT WT	313 / CHEM	PEL	TWA-TLV	CARCINOGEN
SULFONIC ACID	27176-87-0	5 to 10	N			NO
2 BUTOXYETHANOL	111-76-2	7.813	Y	25ppm	25ppm	Yes

NOTE: This product contains materials subject to the reporting requirements of SARA, Section 313 Emergency Planning & Right-to-Know Act.

The balance of the chemicals in this mixture are either considered nonhazardous or are below the listing limits for hazardous substances. These chemicals are considered trade secrets. The specific identity of these chemicals is available to health professionals.

SECTION 3 -- PHYSICAL DATA

Boil Point 212 **Specific Gravity 1.046**
Vapor Press.(mmhg) 20@68f **Volatile: 90**
VaporDensity (AIR=1) N/A **pH 10**
Soluble in water **Evap. Rate(H20=1) = 1**
VOC = 82.9 (g/l) **VOS of Concentrate = 7.9%**
Appearance / Odor: CLEAR LIQUID/CHARACTERISTIC

SECTION 4 -- FIRE AND EXPLOSION DATA

Flash Point: N/A (TCP)
Flammable Limits: N/A
Extinguishing Media: Non-Flammable
Special Fire Fighting Procedures: N/A
Fire, Explosion Hazards: N/A

SECTION 5 -- REACTIVITY DATA

Stability: STABLE
Hazardous Polymerization: WILL NOT OCCUR
Incompatibility: NONE KNOWN
Hazardous Decomposition: NONE KNOWN

SECTION 6 -- STORAGE AND HANDLING

KEEP OUT OF THE REACH OF CHILDREN
For industrial use only

SECTION 7 -- HEALTH AND FIRST AID

EYES: May Cause eye irritation.

SKIN: May cause skin irritation.

INHALATION:

INGESTION: May cause irritation to the intestine, mouth, throat, & esophagus.

EYES: Flush eyes with large amounts of water. Consult physician if irritation continues.

SKIN: Flush with water.

INHALATION: Move person to fresh air. Consult physician

INGESTION: Do not induce vomiting or give anything by mouth to an unconscious person. Consult Physician.

SECTION 8 -- SPECIAL PROTECTION DATA

Respiratory Protection: Adequate ventilation
Ventilation as required to maintain TLV
Protective Gloves: Rubber Gloves Recommended.
Eye Protection: Safety Glasses Recommended

N/A = Not Applicable **CMP = Complete**

SECTION 9 -- SPILL OR LEAK PRECAUTIONS

Steps to be taken in case of spill or leak:
Mop or absorb for disposal
Waste disposal Method:
Sewer or incinerate with local approval.

END OF GENERATE

Material Safety Data Sheet (MSDS)

Section 1 - Chemical Product and Company Identification

MANUFACTURER/SUPPLIER: **US Office:** **Spot Shot Products** **A Division of WD-40 Company** **1061 Cudahy Place** **San Diego, CA 92110** **Information Phone #: (619) 275-1400** **Emergency Phone # 24 hr:** **Chemtrec: (800) 424-9300** – Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals.	**Canadian Office:** **WD-40 Products [Canada] LTD.** **P.O. Box 220** **Toronto, Ontario M9C 4V3** **Information Phone #: (416) 622-9881** **Emergency Phone # 24 hr:** **Canutec: (613) 996-6666** – Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals

PRODUCT NAME: SPOT SHOT CARPET STAIN REMOVER (14 oz.)
FORMULA: Mixture
GENERAL CLASS: Aerosol Cleaning Aid
MSDS DATE OF PREPARATION: May 25, 2005

HMIS Rating
Health: 2
Flammability: 2
Reactivity: 1

Section 2 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent
2-Butoxyethanol	111-76-2	Less than 25%
Liquefied Petroleum Gas	68476-85-7	Less than 10%

See Section 8 for Exposure Limits

Section 3 – Hazards Identification

AEROSOL SPRAY. PLEASANT ODOR. CAUTION! CONTENTS UNDER PRESSURE. AVOID HEAT AND FLAMES. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. HARMFUL IF INTENTIONALLY INHALED. HARMFUL IF ABSORBED THROUGH SKIN. MAY AFFECT LIVER, KIDNEYS, BLOOD, LYMPHATIC SYSTEM OR CENTRAL NERVOUS SYSTEM.
Avoid breathing concentrated vapors. Use with adequate ventilation. Avoid getting on skin, in eyes, and on clothing. Wash thoroughly after handling.

Potential Health Effects:
Primary Routes of Entry: Inhalation, skin and eye contact.
Acute Effects:
Inhalation: Excessive inhalation can cause headache, drowsiness, nausea and lack of coordination. Can cause irritation of respiratory tract.
Skin Contact: Can cause skin irritation. Toxic amounts may be absorbed through the skin with symptoms similar to those under inhalation and ingestion.
Eye Contact: Liquid sprayed into eyes causes corneal irritation and pain.
Ingestion: Symptoms are similar to those of inhalation including pain, diarrhea and vomiting. May cause damage to the liver and kidneys.
Chronic Effects: 2-butoxyethanol has caused lymphatic system, blood, liver and kidney damage.
Medical Conditions Aggravated by Exposure: Pre-existing respiratory, skin, eye, liver, kidney and lymphatic disorders.

Section 4 – First Aid Measures

IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
IF SWALLOWED: Do not induce vomiting. Call a physician or poison control center. Give one eight-ounce glass of water to drink if the patient if conscious and responsive. Never give anything by mouth to an unconscious person.
IF ON SKIN: Wash skin with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation persists or symptoms of exposure develop.
IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

Section 5 – Fire Fighting Measures

Flammability Properties: Not flammable per flame projection test.
Extinguishing Media: Carbon dioxide, dry chemical, water fog
Special Fire Fighting Instructions: Keep fire-exposed containers cool with water spray. In the event of a fire, wear full protective clothing and a NIOSH approved self-contained breathing apparatus with full face piece and operated in positive pressure mode.
Unusual Fire and Explosion Hazards: Exposure of containers to extreme heat and flames can cause them to rupture often with violent force and subsequent fire.

Section 6 – Accidental Release Measures

Ventilate area of spill and remove all sources of ignition. Observe all hazards mentioned in Section 3. Wear personal protective equipment specified in Section 8.
Spills: Wipe, scrape or soak up contents in an inert material. Pick up spill for recovery or disposal and place in a closed container.

Section 7 – Handling and Storage

Handling: Use with adequate ventilation. Do not smoke or use around open flames or sources of extreme heat. Intentional misuse by deliberately concentrating vapors and inhaling can be harmful or fatal. Avoid getting in eyes or on skin and clothing. Do not breathe vapors. Wash thoroughly after handling, and wash contaminated clothing before reuse.
Storage: Store in a cool, dry ventilated area. Protect from physical damage. Do not store in direct sunlight, near open flames or above temperatures greater than 120 F. Do not place can in hot water or near radiators, stoves or other sources of heat.

Section 8 – Exposure Controls/Personal Protection

Occupational Exposure Limits

2-Butoxyethanol	20 ppm TWA ACGIH-TLV 50 ppm TWA OSHA PEL skin
Liquefied Petroleum Gas	1000 ppm TWA ACGIH TLV 1000 ppm TWA OSHA PEL (as propane)

The Following Controls are Recommended for Normal Consumer Use of this Product
Engineering Controls: Good general ventilation is adequate for normal use. When using large amounts, open windows or use a fan to ventilate the area.
Personal Protection:
Eye Protection: Avoid eye contact. Always spray product away from your face.
Skin Protection: Avoid prolonged or repeated skin contact. Wash hands with soap and water after use.
Respiratory Protection: None required. Use in a well-ventilated area.

For Bulk Processing or Workplace Use the Following Controls are Recommended
Engineering Controls: A system of local and/or general exhaust is recommended to control airborne levels below the occupational exposure limits.
Personal Protection:
Eye Protection: Safety glasses with side shields or chemical goggles are recommended.
Skin Protection: Wear appropriate protective clothing and chemical-resistant gloves to prevent skin contact. Wash thoroughly after handling.
Respiratory Protection: Use in a well-ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.
Work/Hygiene Practices: Eye wash facilities should be available. Wash hands before eating and smoking.

Section 9 – Physical and Chemical Properties

Vapor Pressure:	55 psig @ 70 F (propellant)	Vapor Density (air = 1):	>1
Specific Gravity (Water = 1):	N/D	Evaporation Rate (Butyl Acetate = 1):	Less than 1
Boiling Range: -	43 F – 343F (propellant)	% Volatiles by Volume:	N/D
Solubility in water (20 C):	miscible	VOC's lbs/gal:	N/D
Appearance and Odor:	Aerosol spray. Pleasant odor.	Coefficient of Water/Oil Distribution:	N/D

Section 10 – Stability and Reactivity

Stability: Stable under normal storage conditions.
Hazardous Polymerization: Will not occur
Conditions to Avoid: Extreme heat, sources of ignition, physical damage to can.
Incompatibilities: Avoid strong oxidizers, strong bases, acids and chlorinated solvents.
Hazardous Decomposition Products: Burning can produce carbon monoxide and/or carbon dioxide and trace amounts of phosgene gas.

Section 11 – Toxicological Information

2-Butoxyethanol
Inhalation LC50 (ppm) 4-HR: 450 (RAT) Acute oral LD50 (mg/kg): 1,480 (RAT)
Acute Dermal LD50 (kg/kg): 490 (RBT) Irritation, Skin, open, 500 mg: MILD (RBT)
Irritation, Eye, 18 mg: SEVERE (RBT)

Liquefied Petroleum Gas: No data is available

Section 12 – Ecological Information

This product is not expected to be harmful for the environment.

Section13 Disposal Considerations

Aerosol containers should not be punctured, compacted in home trash compactors or incinerated. Empty containers may be disposed of through normal waste management options. Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations.

Section 14 – Transportation Information_

DOT Classification: Consumer Commodity ORM-D

Section 15 – Regulatory Information

SARA 302: None found
SARA 311/312 Hazard Categories: Immediate (acute), Chronic (delayed), Flammability
SARA 313: Toxic Chemicals: 2-butoxyethanol 17% by wt. (glycol ether compound)
OSHA: Hazardous under criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)
California Proposition 65: No components listed.

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List.
Canadian WHMIS Classification: Class D, Division 2, Subdivision B (Toxic material causing other chronic effects)
This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

Section 16 – Other Information__

HMIS Hazard Rating: Health – 2 (moderate hazard), Fire Hazard – 2 (moderate hazard), Reactivity – 1 (low hazard)

Prepared By: Industrial Health & Safety Consultants, Inc.

Revision Date: 05/25/2005 Supercedes: 02/18/05

This MSDS complies with OSHA guidelines set by 29 CFR 1910.1200 and the Canadian WHMIS regulations. The foregoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to insure that their personnel have been notified of any changes which may affect them. The data provided on this MSDS are not meant to be used as specifications, only as guideline information as to the safe use of this product. User should refer to applicable laws before use.

N/D = Not Determined N/E = Not Established N/A = Not Applicable

Material Safety Data Sheet

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

NFPA Fire: 0
Health: 2
Reactivity: 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION

Manufacturer's Name, Address **Masury Columbia Cleaning Technology - PO Box 1247 - Great Bend KS 67530**

Product Name: Shakedown
Product Number: K6004
Chemical Family: Powdered mixture of detergents, builders
Package Size: 15 oz.

EPA Reg. No: n/a
Emergency Telephone No. 620-792-1711
Preparer Bill Dayton
Date: 2/10/03
Signature: Bill Dayton

SECTION II - HAZARDOUS INGREDIENTS IDENTITY INFORMATION

Hazardous Components	CAS#	OSHA TWA	ACGIH TWA	Percent
*Sodium sulfate	7757-82-6			
*Sodium bicarbonate	144-55-8			
*Sodium calcium aluminate	68989-20-8			
*Fragrance	Trade Secret			
*White Mineral Oil	8042-47-5			

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

No Physical Hazards	x	Flammable Gas		Flammable Liquid/Solid		Water Reactive	
Combustible		Flammable Aerosol		Pyrophoric		Oxidizer	
Compressed Gas		Explosive		Unstable - Reactive:		Organic Peroxide	

Boiling Point, °F: n/a
Solubility in Water: Complete
Evaporation Rate: n/a
Vapor Pressure: n/a
Specific Gravity (water =1): n/a
pH: n/a
Vapor Density: n/a
%Volatiles by Weight: n/a

Appearance and Odor: White to granular powder, fragranced

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method): None
Flammable Limits: LEL: n/a
UEL: n/a
Extinguishing Media: n/a

Special Fire Fighting Procedures: n/a

Unusual Fire and Explosion Hazards: None

SECTION V - REACTIVITY DATA

Stability: Unstable [ ] Stable [x]
Conditions to Avoid: n/a

Incompatibility: (Materials to Avoid) Mix only with water.

Hazardous Decomposition Products or Byproducts: None

Hazardous Polymerization: May Occur: [ ] Will Not Occur: [x]
Conditions to Avoid: n/a

Comments:
*Added to comply with the Pennsylvania Worker Right to Know Act of 1984 and the New Jersey Worker & Community Right to Know Act of 1983.

SECTION VI - HEALTH HAZARD DATA

K6004

Route (s) of entry:	Inhalation		Skin:	x	Eye:	x	Ingestion:	x
No Health Hazard		Reproductive toxin			Sensitizer			
Toxic		Irritant			Carcinogen			
Highly Toxic		Corrosive			See Target Organs			

TARGET ORGANS												
Lungs		Eyes	x	Blood		Teratogen		Mucous Membranes	x
Heart		Skin	x	Liver		Central Nervous System		Autonomic Nervous System	
Kidney		Prostrate		Mutagen		Cardiovascular System		Respiratory System	

Carcinogenicity:	None Known	x	NTP:		IARC:		OSHA Regulated	

Medical Conditions Generally Aggravated by Exposure:
None known

Signs and Symptoms of Exposure:
May cause eye or skin irritation. May cause nausea or irritation to mouth, throat, etc. if swallowed.

Emergency and First Aid Procedures:
If in eyes or on skin, immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
If swallowed, get medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:
Sweep up, rinse area with water.

Waste Disposal Method:
SMALL AMOUNTS: Dispose in trash receptacle. LARGE AMOUNTS: Dispose in accordance with Local, State, and Federal regulations.

Potential EPA Hazardous Waste Code(s): n/a

Steps to be taken in handling and storage:
Avoid direct contact with eyes, skin, and clothing.

SECTION VIII - CONTROL MEASURES

Respiratory Protection(Specify Type):
n/a

Ventilation: Local Exhaust: Recommended Special: Recommended
Mechanical: Recommended

Protective Gloves: Recommended Eye Protection: Recommended

Other Protective Clothing and Equipment:
None Required

SECTION IX - SHIPPING INFORMATION

DOT Proper Shipping Name and Number:
Not Regulated

NE = Not Established
N/A = Not Applicable

Material Safety Data Sheet

Revision Date: 02/11/2008

Section I. Product and Company Information

Emergency Contact: Chem*Tel (800) 255-3924

Product Name: DEFOAMER C
#0801

Shipping Description: CLEANING LIQUID
(Not Regulated)

Sold by: Theochem Laboratories Inc
7373 Rowlett Park Drive
Tampa, FL 33610-1141

NFPA Ratings:		HMIS Ratings:	
Health:	0 - Moderate	Health:	0 - Moderate
Fire:	0 - Minimal	Fire:	0 - Minimal
Reactivity:	0 - Minimal	Reactivity:	0 - Minimal

Section II. Hazardous Ingredients

Name	CAS #	% By Weight	OSHA PEL	ACGIN TCL	Other Limits
NONE					

**Indicates hazardous ingredients which are toxic chemicals subject to the reporting requirements of section 3013 of the emergency planning and community right-to-know act of 1986 and of 40 CFR 32*

Section III. Physical/Chemical Characteristics

Boiling Point:	212°F	Specific Gravity (Water = 1):	1.00
Vapor Pressure (mm.HG):	SAME AS WATER	Melting Point:	N/A
Vapor Density (Air = 1):	SAME AS WATER	Evaporation Rate (BuAc = 1):	< 1
Solubility in Water:	DISPERSABLE	pH of Concentrate:	7.1 ± 0.3
Appearance and Odor:	SEMI-VISCOUS, OPAQUE, OFF-WHITE LIQUID, ODORLESS		

Section IV. Fire and Explosion Hazard Data

Flash Point (method used):	NONE		
Flammable Limits:	N/A		
LEL:	N/A	UEL:	N/A
Extinguishing Media:	NONE		
Special Firefighting Procedures:	NONE		
Unusual Fire & Explosion Hazards:	NONE		

Section V. Reactivity Data

Product is:	STABLE
Conditions To Avoid:	N/A
Incompatibility (materials to avoid):	NONE
Hazardous Decomposition or Byproducts:	MAY PRODUCE OXIDES OF CARBON & SILICONE ON INCINERATION.
Hazardous Polymerization:	WILL NOT OCCUR

DEFOAMER C #0801

Section VI: Health Hazard Data

Route(s) Of Entry:
Inhalation: NO
Skin: NO
Ingestion: UNLIKELY
Health Hazards (Acute & Chronic): PROLONGED & REPEATED CONTACT MAY CAUSE SKIN IRRITATION. MODERATELY IRRITATING TO EYES. INGESTION MAY CAUSE GASTROINTESTINAL UPSET.
Carcinogencity: NTP: NO
IARC Mongraphs: NO
OSHA Regulated: NO
Signs & Symptoms Of Exposure: NONE
Medical Conditions Generally Aggravated by Exposure: NONE KNOWN

Emergency and First Aid Procedures

Skin Contact:
WASH WITH WATER, REMOVED AND LAUNDER CONTAMINTED CLOTHING.
Eye Contact:
FLUSH WITH WATER FOR AT LEAST 15 MIN. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
Ingestion:
OFFER VICTIM TWO GLASSES OF WARM WATER & INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.
Inhalation:
N/A

Section VII: Precautions For Safe Handling And Use

Spill Steps:
SMALL SPILLS CAN BE FLUSHED WITH WATER. FOR LARGE SPILLS, DIKE AND CONTAIN. COLLECT ON ABSORBENT (SAWDUST, SAND OR VERMICULITE) TRANSFER TO DRUMS FOR DISPOSAL.
Waste Disposal Method:
LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
Storage & Handling:
STORE IN A COOL, DRY AREA. KEEP FROM FREEZING. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN.

Section VIII: Control Measures

Respiratory Protection: NONE WITH ADEQUATE VENTILATION
Ventilation: Local Exhaust: ADEQUATE
Special: N/A
Mechanical: N/A
Other: N/A
Protective Gloves: IMPERVIOUS (I.E. NEOPRENE)
Eye Protection: CHEMICAL SAFETY GLASSES
Other Protective Equip/clothing: IMPERVIOUS CLOTHING & BOOTS AS REQUIRED TO PREVENT DIRECT CONTACT.
Work/hygienic Practices: KEEP CONTAINER CLOSED WHEN NOT IN USE. WASH HANDS AFTER USE.

We believe the information given is accurate. It is offered in good faith, but without guarantee. Since conditions are beyond our control, user assumes all responsibility and risk.

Material Safety Data Sheet Conforms with OSHA form OMB No. 1218-0072
DRAIN FLOW Inhibited Sulfuric Acid

Roebic Laboratories, Inc.
25 Connair Road, PO Box 927
Orange, CT 06477

Emergency Telephone Numbers-
ROEBIC (203) 795-1283
CHEMTREC (800) 424-9300

(Note: Emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident)

Date: 01/01/01
Preparer: Dave Lawler

Packaging Lot No.: Stamped on carton top

SECTION I – PRODUCT IDENTIFICATION

Product Name	DRAIN FLOW
Common Synonyms	Drain Opener, (Blended Sulfuric Acid)
Chemical Family	Sulfuric Acid
Formula	H2S04 (Approx. 90%)
CAS No.	7664-93-9 (sulfuric acid)
Precautionary Labeling	**Health** 3 **Flammability** 0 **Reactivity** 0 **Contact** 2
US Precautionary Labeling	Do not get in eyes, on skin, or on clothing. Do not take internally. Avoid breathing mist or fumes. Keep separate from powdered metals, organics, combustible materials, solvents, oxidizers, alkalis, and amines. **Keep out of reach of children.**
International Labeling	Do not get in eyes, on skin, or on clothing. Do not take internally. Avoid breathing mist or fumes. Keep separate from powdered metals, organics, combustible materials, solvents, oxidizers, alkalis, and amines. Keep out of reach of children.

SECTION II – COMPONENTS

Component	**CAS No.**	**Wt %**	**OSHA/PEL**	**ACGIH/TLV**
Diluted Sulfuric Acid	7664-93-9	80	N/A	1-mg/m3
Fortifying Agents	N/A (none carcinogenic)			

SECTION III – PHYSICAL DATA

Boiling Point	221°F 105C
Freezing Point	-20°F -10C
Specific Gravity	1.75
Water Solubility	Complete
pH	1.25
Viscosity	30 SSU @ 100F 32.7C
Odor	Sulfur (sulfur trioxide fumes)
Appearance	Viscous Black Liquid (for safety identification)

SECTION IV – FIRE, REACTIVITY, & EXPLOSION DATA

Non-Flammable:	But explosive hydrogen gas can accumulate if transferred into metal containers.
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Fire Fighting Techniques:	Wear full protective clothing including self-contained breathing apparatus with full-face piece operated in a positive pressure mode.
Toxic Gas Produced:	Reaction with certain metals can produce flammable hydrogen gas. Provide adequate ventilation when applying.
Explosion Data:	No sensitivity to mechanical impact. No sensitivity to static discharge.

SECTION V – HEALTH HAZARD DATA

Toxicity of Components
Carcinogenic: None Identified
Reproductive effect: None identified

Effects of Overexposure
Inhalation: Irritation of upper respiratory tract
Skin Contact: Irritation
Eye Contact: Irritation
Ingestion: Internal irritation

Emergency and First Aid Procedures
Inhalation: Remove from contaminated atmosphere. Apply artificial respiration if necessary. Call a physician.
Skin Contact: Flush with cool water, then baking soda solution. If irritation persists get medical attention.
Ingestion: Give large quantities of water or milk. Do not induce vomiting. Do not drink carbonated water. Call a physician.
Eye Contact: Immediately flush with large quantities of water. Call a physician.

SECTION VI – REACTIVITY DATA

Stability Stable

Conditions to Avoid Do not allow product to come in contact with strong alkalis. May cause eruption of hot acid when poured in drain. Do not mix with other household chemicals. Never add water to acid while in container because of violent reaction. When empty rinse thoroughly with water before discarding.

Decomposition Sulfur fumes

SECTION VII – SPILLS AND DISPOSAL PROCEDURES

Small Spill Neutralize with sodium bicarbonate or soda ash and flush with large amounts of water.

Large Spill Pump to a soda ash and slack lime solution, then dispose of with large amounts of water.

SECTION VIII – INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use general or local exhaust ventilation to meet TVL requirements and to minimize exposure.

Respiratory Protection: Respiratory protection is required if airborne concentrations exceed TLV. Above this level use NIOSH approved equipment with full-face piece. Follow respirator manufacturer's recommendations.

Eye and Skin Protection: Safety goggles, protective clothing and rubber or plastic gloves are recommended.

SECTION IX – STORAGE AND HANDLING PRECAUTIONS

Storage Store in high-density polyethylene, rubber lined, fiber glass, or 316 stainless steel containers. Do not store in extreme heat or cold areas. Avoid contact with organic matter. DRAIN FLOW is a strong chemical digester of dead organics.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

Proper Shipping Name Sulfuric Acid 66 Be (blended with buffing agents)
Hazard Class Corrosive Material
UN/NA UN1830/NA
Labels Corrosive
Frt. Classification Cleaning Compound – Class 55

International (I.M.O.)

Proper Shipping Name	Sulfuric Acid 66 Be (blended with buffing agents)
Hazard Class	Corrosive Material
UN/NA	UN1830/NA
Labels	Corrosive
Marine Shipping	Non-pollutant
Air Shipping	Not allowed on passenger flights

SECTION XI – OTHER COMMENTS

This document is intended only as a guide. The user is responsible for determining the precautions and dangers of this chemical formulation for his/her particular application. Supplier cannot warn of all the potential dangers of use or interaction with other chemicals or materials, therefore; disclaims any warranties, expressed or implied with regard to its merchantability or its fitness for a particular purpose. The user is responsible for reading all precautionary information and handling accordingly.

JohnsonDiversey

MATERIAL SAFETY DATA SHEET

I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 80240

PRODUCT NAME: DISHWASHER ALL

USE: Machine Warewashing Detergent

SUPPLIER:

JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada

EMERGENCY PHONE:

1-800-668-7171

WHMIS CLASSIFICATION: D2B
CHEMICAL FAMILY: Chlorinated alkali

TRADE NAME / SYNONYMS: not applicable
CHEMICAL NAME: not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Sodium carbonate	30-60	000497-19-8	LD50 4090 mg/kg	oral/rat
Disodium dichlorosiocyanuratedihydrate	1-5	051580-86-0	LD50 620 mg/kg	oral/rat
Sodium metasilicate	7-13	006834-92-0	LD50 1153 mg/kg	oral/rat
Linear alcohol ethoxylate/propoxylate	1-5	069227-21-0	LD50 3400 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: Nitrile, Neoprene or Natural rubber **Eye:** safety glasses **Footwear:** not required

Respiratory: NIOSH approved dust mask as required. **Other:** not required

SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid breathing dust. Avoid eye and skin contact.

VENTILATION REQUIREMENTS: General ventilation.

INCOMPATIBILITY (Material to Avoid): Strong acids

SPILL PROCEDURES: Sweep or scoop up material for disposal.

WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.

STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container.

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: White, free-flowing powder with blue speckles - floral odour

S.G. / BULK DENSITY(g/cc): 1.00 - 1.09
pH: (0.1% solution) 11.0 ± 0.5

VAPOUR PRESSURE (mmHg): not applicable
VAPOUR DENSITY (air=1): not applicable

ODOUR THRESHOLD: 0.2-0.4 ppm chlorine
BOILING POINT: not applicable

FREEZING POINT: not applicable
PERCENT VOLATILE: not applicable

SOLUBILITY IN WATER: soluble
EVAPORATION RATE (water=1): not applicable

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES: May cause severe irritation. May cause permanent damage if not treated promptly.

SKIN: Repeated or prolonged contact may result in irritation.

INGESTION: May cause severe irritation of the digestive tract. May cause temporary or permanent damage if not treated promptly.

INHALATION: Breathing dust may cause respiratory irritation.

LD50 (calculated): 4462 mg/kg	**LC50 (calculated):** Not applicable

OTHER TOXIC EFFECTS: TLV (Sodium metalsilicate): 2 mg/m3

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: None known.

VI - FIRST AID MEASURES

EYES: Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately.

SKIN: Flush affected area thoroughly with water. If irritation develops, contact a physician.

INGESTION: Drink large volumes of water . Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a physician immediately.

INHALATION: Remove patient to fresh air. Get medical attendion for any breathing difficulty.

VII - FIRE AND EXPLOSION DATA

FLAMMABLE: No.

FLASH POINT, °C: not applicable	**AUTO IGNITION TEMPERATURE,°C:** N/Ap

EXTINGUISHING MEDIA: Water [x] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other [ ]

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus.

HAZARDOUS COMBUSTION PRODUCTS: Chlorine gas. Oxides of carbon, nitrogen.

EXPLOSIVE SENSITIVITY TO: not applicable

VIII - REACTIVITY DATA

STABILITY: Stable [x] Unstable [ ]

CONDITIONS TO AVOID: not applicable

INCOMPATIBILITY (Material to Avoid) : Acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Contact with acids generates chlorine gas. Chloramines.

REACTIVITY: not dangerously reactive

IX - MSDS PREPARATION

SOURCES USED: RTECS, ChemInfo	**PREPARED BY:** JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	

Information on this form is furnished in compliance with the Regulations respecting Controlled Products under the Hazardous Products Act and is not to be used for any other purpose, nor is it to be reproduced or published. JohnsonDiversey Canada assumes no responsibility for injury to any person or property resulting from any use of the material if reasonable safety procedures are not adhered to. In addition, JohnsonDiversey Canada assumes no responsibility for injury to any person or property resulting from any abnormal use or theft of the material, even if reasonable safety procedures are followed. Each user assumes the risk in his use of the material and should review the data and recommendations in the specific context of the intended use.

WHITE LOTION HAND SOAP

MSDS ID: 04617

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:
Product Discriptor:
MANUFACTURER: JOHNSONDIVERSEY, INC. EMERGENCY PHONE NUMBER:(800)851-7145
3630 E. KEMPER ROAD
CINCINNATI, OH. 45241

II. HAZARDOUS COMPONENTS

Component Name	CAS Number	%	Exposure Limits	Units
WHITE LOTION HAND SOAP		>30%	None established	

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

SIGNS AND SYMPTOMS OF OVEREXPOSURE
ACUTE: MAY IRRITATE EYES
CHRONIC: SAME AS ACUTE
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Sensitive skin

IV. FIRST AID MEASURES

V. FIRE FIGHTING MEASURES

FLASH POINT (degrees F): NONE FLAME EXTENSION: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: N/A UEL: N/A
EXTINGUISHING MEDIA: CO2, FOAM, DRY CHEMICALS
FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus (SCBA) in fire area.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED:
FLUSH TO DRAIN AND RINSE TO AVOID SLIPPERY CONDITIONS
This product does not contain a reportable quantity (RQ) under CERCLA.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: DO NOT SPILL. WILL CAUSE A SLICK WORKING SURFACE. KEEP FROM FREEZING. IF FROZEN, THAW AND MIX TO MAKE USABLE. DO NOT PRESSURE CONTAINER TO EMPTY.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: NONE
PROTECTIVE GLOVES: NONE
OTHER PROTECTIVE CLOTHING/EQUIPMENT: NONE
ENGINEERING CONTROLS:
MECHANICAL VENTILATION: PRODUCING NORMAL AIR DILUTION
LOCAL VENTILATION: NO

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

BOILING POINT (DEG F): 212 FREEZING POINT: Not determined
SPECIFIC GRAVITY/BULK DENSITY:
pH: pH 1% SOLUTION: Not Determined
VOLATILE BY VOLUME: 80
VAPOR PRESSURE(mmHg): 17.5 at 20 F VAPOR DENSITY: N/A

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBILITY WITH OTHER MATERIALS: CO WITH INCOMPLETE COMBUSTION
HAZARDOUS DECOMPOSITION PRODUCTS: None known.
HAZARDOUS POLYMERIZATION: NONE

XI. TOXICOLOGICAL INFORMATION

No data available.
TOXICITY TEST DATA:
No data available.

XII. ECOLOGICAL INFORMATION

ECOTOXICITY TEST DATA: No data available.
ENVIRONMENTAL FATE: No data available.

XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: Not Regulated.
POUR OR FLUSH DOWN DRAIN OR LAND FILL. CONTAINS NO PHOSPHATES, 100% BIODEGRADABLE. USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER TRIPLE RINSE WITH WATER, ADD TO OPERATION REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL

XIV. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up to date shipping information.

XV. REGULATORY INFORMATION

U.S. Federal Regulations:
TSCA: All ingredients in this product are on TSCA inventory.
HAPS: Contains no hazardous air pollutants.
VOC CONTENT (EPA Method 24A): % VOC: Lb/Gal VOC:
CERCLA/EPCRA:
Section 313 Toxic Chemicals: None
SARA Section 311/312:
ACUTE:NO CHRONIC:NO FIRE:NO REACTIVITY:NO
SUDDEN RELEASE OF PRESSURE:NO
LISTED CARCINOGEN: NONE
NTP: NO IARC: NO OSHA: NO
HMIS RATINGS: HEALTH: FIRE: REACTIVITY:
PERSONAL PROTECTIVE EQUIPMENT:
NFPA RATING: HEALTH: FIRE: REACTIVITY: SPECIAL:
STATE RIGHT-TO-KNOW INFORMATION:
CALIFORNIA PROPOSITION 65:
None of the ingredients are on the California proposition 65 list.

XVI. OTHER INFORMATION

DISCLAIMER: The information contained in this material safety data sheet is based on the knowledge of this specific product and current national legislation. It applies to the product as sold, use dilutions may be less hazardous. It may not be valid for this material if used in combination with any other materials or in a process. It is the user's responsibility to evaluate the handling, and use.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTITY **DATE 6/23/95**

MANUFACTURED BY:	**PHONE NO:**	**ADDRESS:**
SPECTRAL CHEMICAL CO. INC.	401 781 8180	11 O'KEEFE LANE WARWICK RI 02888

CHEMICAL NAME	**TRADE NAME**
GERMICIDAL HAND CLEANER	SANI HAND II SANITIZING HAND SOAP

SECTION II - HAZARDOUS INGREDIENTS

CAS NO.	**PRINCIPAL HAZARDOUS INGREDIENTS**	**%**	**ACGIH/TLV**	**OSHA/PEL**
	NONE			

SECTION II B - OTHER INGREDIENTS

WATER, P-CHLORO META XYLENOL, SODIUM LAURYL SULFATE, COCAMIDO PROPYLBETAINE, FRAGRANCE, DYES

SECTION III - PHYSICAL DATA

APPEARANCE & ODOR: PINK. PEARLY VISCOUS LIQUID. WITH PLEASENT SCENT		pH: 5.5 - 7
SPECIFIC GRAVITY: APPROX. 1	% VOLATILE: NA	REACTIVITY IN WATER:NONE
BOILING POINT APPROX.:APPROX. 212°F	SOLUBILITY IN WATER: 100%	VAPOR DENSITY: NOT KNOWN

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: NONE SPECIAL FIRE FIGHTING PROCEDURES: NONE
EXTINGUISHING MEDIA: WATER. DRY CHEMICAL, CARBON DIOXIDE. FOAM
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN

SECTION V - PHYSICAL HAZARDS

STABILITY UNSTABLE( ) STABLE (X) CONDITIONS TO AVOID: NONE KNOWN
MATERIALS TO AVOID: STRONG OXIDIZING PRODUCTS
HAZARDOUS DECOMPOSITION PRODUCTS FROM THERMAL: NONE KNOWN
HAZARDOUS POLYMERIZATION: MAY OCCUR ( ) WILL NOT OCCUR(X)

SECTION VI - HEALTH HAZARD DATA

EFFECT OF OVER EXPOSURE
1. INHALATION: INHALATION OF MIST MAY BE IRRITATING TO THROAT
2. EYES: IRRITANT
3. SKIN: NONE KNOWN
4. INGESTION: CONSULT A PHYSICIAN. GENERALLY NOT CONSIDERED TOXIC

CHEMICAL LISTED AS A CARCINOGEN NO (X) YES ( )

EMERGENCY AND FIRST AID
1. INHALATION: AVOID INHALATION OF MIST OR VAPORS
2. EYES: AVOID CONTACT
3. SKIN: IF IRRITATION OCCURS, DISCONTINUE USE.
4. INGESTION: DILUTE BY DRINKING WATER OR MILK AND GET MEDICAL ATTENTION.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SMALL SPILLS MAY BE FLUSHED DOWN THE DRAIN.
WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: GENERALLY NOT REQUIRED
VENTILATION EXHAUST: LOCAL (x) MECH. ( ) SPECIAL ( )

PROTECTIVE : OTHER: DISCONTINUE IF SKIN IS SENSITIVE

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE BETWEEN: 40°F AND 120°F
KEEP CONTAINER COVERED OR CLOSED KEEP OUT OF REACH OF CHILDREN

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH	**1**
FLAMMABILITY	**0**
REACTIVITY	**0**
PERSONAL PROTECTION	**NONE**

HMIS CODE	PERSONAL PROTECTION INDEX
0 - MINIMAL HAZARD	A - SAFETY GOGGLES
1 - SLIGHT HAZARD	B - SAFETY GOGGLES, GLOVES
2 - MODERATE HAZARD	C - SAFETY GOGGLES, GLOVES, SYNTHETIC APRON
3 - SERIOUS HAZARD	D - FACE SHIELD, GLOVES, SYNTHETIC APRON
4 - SEVERE HAZARD	E - SAFETY GOGGLES, GLOVES, DUST RESPIRATOR

MATERIAL SAFETY DATA SHEET

N/A = Not Applicable (Prepared According To 29 CFR 1910.1200) **Effective Date: 08/06**

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: North Woods™ Natures Stuff
Generic Name: Citrus Hand Cleaner
Suppliers Name: SUPERIOR CHEMICAL CORP.
Suppliers Address: 1331 Wisconsin Avenue, Sheboygan, WI 53081
Phone: 800-242-7694
EMERGENCY PHONE: 800-535-5053

Chemical Family: N/A
Formula: N/A

NPCA Hazardous Materials Identification System

Health	0
Flammability	1
Reactivity	0
Maximum Personal Protection	A

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NO.	WT.%	PEL	TWA-TLV	STEL-TLV	CARCINOGEN

No hazardous ingredients.

SECTION 3 - PHYSICAL DATA

Boiling Range (˚F): 175°F
Vapor Pressure: N/D
% Volatile: N / A
Solubility in Water: Soluble
Physical Description: Yellow, opaque liquid; pleasant citrus fragrance.
Specific Gravity: 0.963
Vapor Density: <1.0
pH: 6.8 - 7.4
Evaporation Rate: >1.0

SECTION 4 - FIRE & EXPLOSION HAZARD DATA

Flash Point (method used): N / A
Upper Explosive Limit: N/A **Lower Explosive Limit:** N/A
Extinguishing Media: Foam, carbon dioxide, dry chemical.
Special Fire Fighting Procedures: Self contained breathing apparatus.
Unusual Fire & Explosion Hazards: Cool fire exposed containers with water spray.

SECTION 5 - REACTIVITY DATA

Stability: Stable **Hazardous Polymerization:** Will not occur.
Incompatibility (materials to avoid): Strong acids and oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may yield oxides of carbon.

SECTION 6 - STORAGE & HANDLING INFO

Precautions To Be Taken In Handling & Storage:
Keep out of reach of children. For institutional and industrial use only.
Store in a cool, dry place, away from heat or open flame. Keep continer slightly closed when not in use.

SECTION 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure
Primary Route of Entry:

Skin: Irritation.

Eyes: Severe irritation, redness and tearing.

Inhalation: None under normal use.

Ingestion: Gastrointestinal irritation, nausea, vomiting, diarrhea.

First Aid
Procedures:

Skin: Wash with soap and water. If irritation persists, obtain medical attention.

Eyes: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain medical attention if irritation persists.

Inhalation: Remove person to fresh air.

Ingestion: Contact physician or poison center immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use adequate ventilation.

Protective Gloves: Not required.

Other Protective Equipment: None.

Ventilation: General ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Eyes: None.

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Mop up or otherwise absorb and hold material for disposal.

Waste disposal method:
Any method in accordance with applicable laws.

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

4521-253

MATERIAL SAFETY DATA SHEET

SECTION I – MATERIAL IDENTIFICATION AND USE

MATERIAL NAME: SUPER STRENGTH BOWL CLEANER

MANUFACTURERS NAME:
CP INDUSTRIES LTD.
225 BLACK STREET
FERGUS, ONTARIO N1M 1A5

SUPPLIERS NAME:
HOME HARDWARE
34 HENRY STREET WEST
ST JACOBS, ONTARIO N0B 2N0

EMERGENCY TELEPHONE NUMBER: (613) 996-6666
Non-Office Hours, Weekends, or Holidays – (CANUTEC) Call Collect

EMERGENCY TELEPHONE NUMBER: (613) 996-6666
Non-Office Hours, Weekends, or Holidays – (CANUTEC) Call Collect

CHEMICAL NAME	CHEMICAL FAMILY	CHEMICAL FORMULA	
Not Applicable (mixture)	Mineral Acid	Not Applicable	
MOLECULAR WEIGHT	**TRADE NAME AND SYNONYMS**	**MATERIAL USE**	**WHMIS CLASS**
Not Applicable	Not Available	Toilet Bowl Cleaner	E D1A

SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROXIMATE CONCENTRATION %	C.A.S.N.A.	"EXPOSURE LIMITS"	LD50 / LC50 SPECIFY SPECIES & ROUTE
Hydrogen Chloride	10 - 20	007647-01-0	TLV (ACGIH) 5 ppm Ceiling	Hydrochloric Acid: LD50 Not Determined LC50 3124 ppm for 1 hour (inhalation/rat)

SECTION III – PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE	ODOUR AND APPEARANCE	ODOUR THRESHOLD	SPECIFIC GRAVITY
GAS LIQUID X SOLID	Clear dark blue liquid, slight pungent odour	Not Available	1.08
VAPOUR PRESSURE (mm)	**VAPOUR DENSITY (Air=1)**	**EVAPORATION RATE**	**BOILING POINT (°C)**
Not Available	Not Available	Not Available	Not Available
FREEZING POINT (°C)	**SOLUBILITY IN WATER**	**% VOLATILE (by volume)**	**pH**
-10°C approx.	Infinite	99% (approx.)	Strong acid less than 1

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not Available

SECTION IV – FIRE AND EXPLOSION DATA

FLAMMABILITY **IF YES, UNDER WHAT CONDITIONS**
YES **NO** X

MEANS OF EXTINCTION: None Required. Not Flammable.
SPECIAL PROCEDURES: Hydrochloric acid itself is non-flammable. There is, however, a latent fire or explosion hazard due to hydrogen gas generated when acid is in contact with metals. Wear full protective equipment including self contained breathing apparatus.

FLASH POINT (°C) AND METHOD: None **AUTO IGNITION TEMPERATURE (°C)**: Not Applicable
UPPER EXPLOSION LIMIT (% BY VOLUME): Not Applicable **LOWER EXPLOSION LIMIT (% BY VOLUME)**: Not Applicable

HAZARDOUS COMBUSTION PRODUCTS: Toxic and Corrosive HCL Gas may be released.
EXPLOSION DATA SENSITIVITY TO MECHANICAL IMPACT: Not Applicable

RATE OF BURNING	EXPLOSIVE POWER	SENSITIVITY TO STATIC DISCHARGE
Not Applicable	Not Applicable	Not Applicable

SECTION V – REACTIVITY DATA

CHEMICAL STABILITY **IF NO, UNDER WHAT CONDITIONS?**
YES X NO
INCOMPATIBILITY TO OTHER SUBSTANCES IF SO, WHICH ONES?
YES X NO

REACTIVITY AND UNDER WHAT CONDITIONS: Contact with alkalis will generate heat. Contact with most metals will generate hydrogen gas. Contact with oxidizing chlorinated materials will generate toxic chlorine gas.

HAZARDOUS DECOMPOSITION PRODUCTS: See above

MATERIAL NAME: SUPER STRENGTH BOWL CLEANER

SECTION VI – TOXICOLOGICAL PROPERTIES OF PRODUCT

ROUTE OF ENTRY

SKIN CONTACT**:**	X	SKIN ABSORPTION**:**		EYE CONTACT**:**	X
INHALATION ACUTE**:**	X	INHALATION CHRONIC**:**	X	INGESTION**:**	X

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

EYE: CORROSIVE. Contact may cause pain, lachrymation (tears), and severe irritation with corneal injury, may even cause blindness.

SKIN: CORROSIVE. Short single skin exposure may cause burns.

INHALATION: CORROSIVE. Excessive vapour concentrations inhaled may cause serious adverse effects, even death.

INGESTION: CORROSIVE. May cause burns of the mouth and throat and gastro intestinal irritation and ulceration.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Repeated excessive exposure may cause erosion of teeth and bleeding and ulceration of nose, mouth and gums.

LD50 OF PRODUCT (SPECIFY SPECIES & ROUTE)	IRRITANCY OF PRODUCT	EXPOSURE LIMITS OF PRODUCT
Not Determined	High	ACGIH TLV 5 ppm Ceiling

LC50 OF PRODUCT (SPECIFY SPECIES)	SENSITIZATION TO PRODUCT	SYNERGISTIC MATERIALS
Hydrochloric Acid: 3124 ppm for 1 hr (inhal/rat)	Not Available	None Known

CARCINOGENICITY	REPRODUCTIVE EFFECTS	TERATOGENICITY	MUTAGENICITY
Not Applicable	Not Available	Not Available	Not Available

SECTION VII – PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

GLOVES	RESPIRATORY (SPECIFY)	EYE (SPECIFY)
Neoprene, Rubber or PVC	Approved air purity respirator if exposure guidelines or comfort levels may be exceeded.	Chemical Goggles

FOOTWEAR (SPECIFY)	CLOTHING (SPECIFY)	OTHER (SPECIFY)
Rubber Boots	Apron	Not Applicable

ENGINEERING CONTROLS (E.G. VENTILATION, ENCLOSED PROCESS, (SPECIFY): Local mechanical exhaust ventilation to control airborne contamination below exposure levels.

LEAK AND SPILL PROCEDURE: Ventilated area. Do not allow spilled material to go to drain. Contain leak or spill, soak up with sand, ashes, or gravel. Dispose of into covered polyethylene containers.

WASTE DISPOSAL: Dispose of according to local, provincial, and federal regulations.

HANDLING PROCEDURES & EQUIPMENT: Use only with adequate ventilation. Avoid eye and skin contact. Avoid breathing vapours.

STORAGE REQUIREMENTS: Store in a cool, dry place in a closed container away from heat, metals and oxidizers.

SPECIAL SHIPPING INFORMATION: Not Applicable.

SECTION VIII – FIRST AID PROCEDURES

SKIN: Immediate, continued and thorough washing in flowing water for 30 minutes, is imperative while removing contaminated clothing. Seek medical attention immediately.

EYE: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical attention is essential.

INHALATION: Remove patient to fresh air if effects occur. Seek medical attention immediately.

INGESTION: DO NOT induce vomiting. Give large amounts of water or milk if available and transport to medical facility immediately.

GENERAL ADVICE: Safety shower and eyewash must be readily available. CORROSIVE. May cause stricture. If lavage is performed, suggest endotracheal and esophagoscopic control if burn is present, treat as any thermal burn after decontamination.

SECTION IX – PREPARATION DATE OF MSDS

ADDITIONAL INFORMATION/COMMENTS: None

SOURCES USED: Supplier MSDS

PREPARED BY: CP INDUSTRIES LTD.
DEVELOPMENT DEPT.
INSTITUTIONAL DIVISION

PHONE NUMBER: (519) 843-6300

DATE: MARCH 24, 2004

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION AND USE

Product Identifier: CLING TYPE BOWL CLEANER
Product Use: HEAVY DUTY BOWL CLEANER FOR USE ON PORCELAIN, PLASTIC TILE, FIBREGLASS, VITREOUS CHINA AND STAINLESS STEEL.
Supplier: SHARE CANADA
Address: 1691 CHURCH AVENUE, WINNIPEG, MANITOBA R2X 2Y7
Telephone Number: (204) 633-8553 **Fax:** (204) 633-8453 **CANUTEC:** (613) 996-6666

SECTION II - HAZARDOUS INGREDIENTS

Hazardous ingredients	CAS Number	Exposure limits	Weight %	LD 50	LC50
PHOSPHORIC ACID	7664-38-2	1 mg / m^3	10 – 30 %	1530 mg /kg (rat/ oral) 2740 mg /kg (rabbit/ dermal)	Not found.

SECTION III- PHYSICAL DATA

Physical State: LIQUID
Specific Gravity (20^{O}C): 1.1
Odour and appearance: TRANSLUSCENT TO OPAQUE GREEN LIQUID, WINTERGREEN ODOUR.
Odour threshold: Not available.
pH: 1.2
Vapour pressure (mm Hg): 2.3 kPa @ 20^{O}C.
Vapour density (air = 1): 1
Evaporation rate (water = 1): 1
% volatile by volume: Not available.
Solubility in water: EASILY SOLUBLE IN COLD WATER.
Boiling point (C^{O}): 102 ^{O} C.
Freezing point (C^{O}): Not available.
Coefficient of oil/water distribution: Not available.

SECTION IV - FIRE AND EXPLOSION DATA

Flammable or combustible: Not flammable or combustible. **Flash point (C^{O}):** NONE
Conditions of flammability: NONE
Upper flammable limit: Not applicable. **Lower flammable limit:** Not applicable.
Autoignition temperature: Not applicable. **Flammability classification:** NONE
Special fire fighting procedures: SPRAY WATER TO COOL CONTAINERS AND CONTROL VAPOURS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING FUMES.
Means of extinction: SMALL FIRE USE DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR FOAM, LARGE FIRE USE WATER SPRAY, FOG OR FOAM. DO NOT USE WATER JET.
Hazardous combustion products: PHOSPHATES AND CARBON OXIDES.
Sensitivity to mechanical impact: Not sensitive.
Sensitivity to static discharge: Not sensitive.

SECTION V - REACTIVITY DATA

Is the product stable? STABLE
Conditions of reactivity: DO NOT MIX WITH OTHER CLEANING PRODUCTS.
Incompatible substances: HIGHLY REACTIVE WITH ALKALIS. SLIGHTLY REACTIVE WITH ORGANIC MATERIALS. NON-REACTIVE WITH OXIDIZING AGENTS, ACIDS.
Hazardous decomposition products: PHOSPHATES AND CARBON OXIDES.

Product Identifier: CLING TYPE BOWL CLEANER

SECTION VI - TOXICOLOGICAL PROPERTIES

WHMIS CLASSIFICATION: CLASS D2B, E - CORROSIVE MATERIAL
Primary routes of exposure: SKIN AND EYE CONTACTAND INGESTION.
Exposure limits: SEE SECTION II FOR LIMITS FOR INGREDIENTS.
Acute effects of exposure: DANGEROUS IN CASE OF SKIN CONTACT (CORROSIVE, IRRITANT), OF EYE CONTACT (IRRITANT), OF INGESTION, OF INHALATION. LIQUID OR SPRAY MIST MAY PRODUCE TISSUE DAMAGE PARTICULARLY ON MUCOUS MEMBRANES OF EYES, MOUTH AND RESPIRATORY TRACT. Chronic effects of exposure: REPEATED EXPOSURE MAY CAUSE CHRONIC EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
Sensitizer: NOT KNOWN TO BE A SENSITIZER.
Carcinogen: NOT LISTED - IARC, NTP, OSHA Mutagen: NOT KNOWN AS A MUTAGEN.

SECTION VII - PREVENTION MEASURES

Gloves: IMPERVIOUS GLOVES	**Respirator: IF VENTILATION IS INSUFFICIENT, WEAR SUITABLE RESPIRATORY EQUIPMENT.**	**Eye protection: SPLASH GOGGLES, FACE`SHIELD.**
Footwear: RUBBER BOOTS	**Clothing: PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT.**	**Other: EYE WASH STATION AND SAFETY SHOWER.**

Engineering controls: PROVIDE EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS OF VAPOURS BELOW TLV.
Leak and spill procedures: ABSORB WITH INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.
Waste disposal: DISPOSE ACCORDING TO FEDERAL, PROVINCIAL OR LOCAL REGULATIONS. CONSULT LOCAL OR REGIONAL AUTHORITIES.
Handling and storage requirements: KEEP LOCKED UP, KEEP CONTAINER TIGHTLY CLOSED AND DRY. KEEP AWAY FROM HEAT, METALS AND OXIDIZING MATERIALS AND SOURCES OF IGNITION. STRONG ACIDS THAT ARE NOT STRONG OXIDANTS SHOULD BE STORED IN A SEPARATE SAFETY STORAGE CABINET OR ROOM. KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN. KEEP CONTAINER DRY. DO NOT BREATHE GAS, FUMES, VAPOUR OR SPRAY. AVOID CONTACT WITH SKIN AND EYES. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN.
Special shipping information: T.D.G CLASS 8 PHOSPHORIC ACID, LIQUID. UN 1805, PACKING GROUP III. LIMITED QUANTITY IN CONTAINERS UP TO 5 LITRES.

SECTION VIII - FIRST AID MEASURES

Eye contact: IMMEDIATELY FLUSH EYES AND UNDER EYELIDS WITH PLENTY OF COOL WATER FOR 15 MINUTES HOLDING THE EYELIDS OPEN. GET MEDICAL ATTENTION.
Skin contact: WASH SKIN WITH PLENTY OF COOL WATER AND NON-ABRASIVE SOAP AND COVER WITH AN EMOLIENT. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.
Ingestion: CONTACT PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY. DO NOT INDUCE VOMITING. RINSE MOUTH THOROUGHLY. GIVE CONSCIOUS PERSON SEVERAL GLASSES OF WATER OR MILK. Inhalation: ALLOW THE VICTIM TO REST IN A WELL-VENTILATED AREA. SEEK IMMEDIATE MEDICAL ATTENTION.

SECTION IX - PREPARATION DATA

Information sources: MANUFACTURER'S MSDS, CCOHS CCINFO
Prepared by: SHARE CANADA
Telephone Number: (204) 633-8553
Preparation Date: September 2, 2005

Atlantic Chemical Equipment Co.
2190 DeFoor Hills Rd NW
Atlanta, GA 30318
404-355-5522

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ODOR NEUTRALIZER (ON & ONjr)

EMERGENCY PHONE: 1-800-424-9300

May be used to comply with OSHA'S Hazard Communications Standard (HSC) 29 CRF 1910, 1200.
Standard must be consulted for specific requirements. This product contains no substances subject to SARA TITLE III and 40 CRF.

HMIS SYMBOLS

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

1 - IDENTIFICATION

PRODUCT NAME: **(ON)** Odor Neutralizer	PACKAGE TYPE: pint, quart, gallon
PREPARED DEPARTMENT OF HAZARDOUS COMMUNICATIONS	DATE PREPARED: June 2003

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S) (CHEMICAL NAMES)	CAS NO	ACGIH TLV	OSHA PEL	% or RANGE
2 - hydroxybenzoic acid methyl ester	119-36-8		N/E	<37%

III - PHYSICAL DATA

BOILING POINT (^{0}F) : N/A	SPECIFIC GRAVITY (H_20= 1) : N/A
VAPOR PRESSURE (mm Hg) : N/A	MELTING POINT : N/E
VAPOR DENSITY (Air = 1) : Heavier	EVAPORATION RATE (H_20 = 1) : <1
pH : NA	APPEARANCE AND ODOR : Dark brown granules - wintergreen odor
SOLUBILITY IN WATER : Not Soluble	

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: Flash point 214^{0}F

SPECIAL FIRE FIGHTING PROCEDURES: Wear impervious clothing and SCBA; dike spills to prevent runoff

UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of decomposition include carbon monoxide and low molecular weight hydro carbons

V - REACTIVITY DATA

CHEMICAL STABILITY	UNSTABLE		**CONDITIONS TO AVOID:**
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): Oxidizing agents, heat, sparks, open flame, bases

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO_2

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	X	

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: **EYES Yes** **SKIN Yes** **INGESTION Yes** **INHALATION Yes**

EFFECTS OF OVER EXPOSURE: Irritant

INHALATION: May irritate sensitive persons

SKIN CONTACT/ABSORPTION: Irritation

INGESTION: Toxic if ingested

EYES: Eye irritant

CARCINOGENICITY:	**NTP?** Not listed	**IARC MONOGRAPHS?** Not listed	**OSHA REGULATED?** Not listed

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: EYES - wash eyes with plenty of water. **GET MEDICAL ATTENTION IMMEDIATELY. SKIN -** Rinse skin with plenty of water and soap**.** Get medical help if nauseated, treat as ingested products

INHALATION: Remove to fresh air. GET IMMEDIATE MEDICAL ATTENTION, if symptoms persist.

INGESTION: Immediately induce vomiting. GET IMMEDIATE MEDICAL ATTENTION. Call poison control center. Treat for salicylate poisons.

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:
SMALL SPILLS: Sweep up material and shovel into waste container.
LARGE SPILLS: Contain and collect for reuse.

WASTE DISPOSAL METHOD: Deposit in landfill in accordance with local, State, and Federal regulations.

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: Needed in misty conditions. Use approved NIOSH organic vapor HEPA respirator.

EYE: Wear chemical splash goggles.

SKIN: Prevent all possible contact. Use impervious apron, boots, goggles.

PROTECTIVE GLOVES: PVC or rubber

OTHER: DO not eat, drink, or smoke in work area. Wash hands before eating.

VENTILATION REQUIREMENTS: Local exhaust adequate

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed when not in use.

SPECIAL PRECAUTIONARY STATEMENTS: Keep this and all chemicals out of reach of children.

NOTICE: We believe that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, expressed or implied, of merchantability fitness or otherwise is made.

SARA Title III Reporting Requirements

302	(Extremely Hazardous Substances): **Reporting not required.**
304/CERCLA	(Spills Notification): **Not required.**
311	Community Right-To-Know, RTK): **Reporting not required.**
312	(RTK Inventory Data): **Reporting required above TPQ.**
313	(Emissions and Releases): **Reporting not required.**
DOT	NOT HAZARDOUS

References

TOXIC SUBSTANCE CONTROL CT LIST (TSCA) - INGREDIENTS LISTED

PERMISSIBLE EXPOSURE REFERENCES:

- Registry of Toxic Effects of Chemical Substances.
- Title 29 Code of Federal Regulations.
- National Toxicology Program (NTP) Report on Carcinogens.
- International Agency for Research on Cancer (IARC) Monographs.
- Title 40 Code of Federal Regulations

REGULATORY STANDARDS:

- DOT Title 49 Code of Federal Regulations 172.101
- SARA Title III

Nuclear Regulatory Commission

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION AND USE

Product Identifier: **ODOUR NEUTRALIZER**

Product Use: **WATER BASED DEODERANT FOR USE AS AN ODOUR NEUTRALIZER.**

Supplier: **SHARE CANADA**
Address: **1691 CHURCH AVENUE, WINNIPEG, MANITOBA R2X 2Y7**

Telephone Number: (204) 633-8553 **Fax: (204) 633-8453** **CANUTEC: (613) 996-6666**

SECTION II - HAZARDOUS INGREDIENTS

Ingredient	CAS Number	Weight %	LD_{50}	LC_{50}
Isopropanol	67-63-0	5 – 10 %	5840 mg/kg oral /rat	16,000 ppm rat, 2 hr

SECTION III - PHYSICAL DATA

Physical State: **LIQUID**
Specific gravity: **0.995**
pH: **Not available.**
Odour and appearance: CLEAR, LIGHT YELLOW LIQUID. FLORAL FRAGRANCE.
Odour threshold: **Not available.** **Vapour pressure (PSI): Not available.**
Vapour density (air = 1): Not available. **Evaporation rate (water = 1): Not available.**
% volatile by volume: 1-10 **Solubility in water: SOLUBLE.**
Boiling Point (C^0): Not available. **Freezing Point (C^0): Not available.**
Coefficient of water/oil distribution: Not available.

SECTION IV - FIRE AND EXPLOSION DATA

Flammable or combustible: **COMBUSTIBLE**
Flash point and method: **42 ^{0} C – CLOSED CUP**
Upper flammable limit: **Not Available.**
Lower flammable limit: **Not Available.**
Autoignition temperature: **Not Available.**
Flammability classification: **COMBUSTIBLE LIQUID.**
Conditions of flammability: **EXPOSURE TO HEAT OR OPEN FLAME.**
Means of extinction: **WATER, FOAM, CARBON DIOXIDE, DRY CHEMICAL.**
Special fire fighting procedures: COOL FIRE-EXPOSED CONTAINERS WITH WATER FOG. FIREFIGHTERS SHOULD BE EQUIPPED WITH FULL PROTECTIVE GEAR, INCLUDING SELF-CONTAINED BREATHING APPARATUS.
Hazardous combustion products: OXIDES OF CARBON.
Sensitivity to mechanical impact: NOT SENSITIVE
Sensitivity to static discharge: NOT SENSITIVE

SECTION V - REACTIVITY DATA

Is the product stable: **YES- STABLE.**
Incompatible substances: **OXIDIZERS**
Conditions of Reactivity: **NONE**
Hazardous decomposition products: **THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF CARBON.**

Product identifier: ODOUR NEUTRALIZER

SECTION VI - TOXICOLOGICAL PROPERTIES

Primary routes of exposure: SKIN AND EYE CONTACT, INHALATION, INGESTION.
Exposure Limits: ACGIH -TLV: ISOPROPANOL TLV-TWA 400 ppm TLV STEL 500 ppm
WHMIS CLASS: B- 3 COMBUSTIBLE LIQUID, D 2B OTHER TOXIC EFFECTS (EYE IRRITANT).
Irritant: YES
Carcinogen: NO - IARC / OSHA / NTP
Sensitizer: NO
Mutagen: NO
Reproductive effects: NONE KNOWN
Synergistic products: NONE KNOWN
Effects of acute exposure: Eyes: MILD IRRITATION AND REDNESS.
Ingestion: GASTROINTESTINAL IRRITATION, NAUSEA, CRAMPS AND VOMITING. ASPIRATION MAY BE A HAZARD. Skin: REDNESS, DRYNESS AND IRRITATION WITH PROLONGED AND REPEATED EXPOSURE. Inhaled: MOVE TO FRESH AIR. IF IRRITATION PERSISTS OBTAIN MEDICAL ATTENTION.

SECTION VII - PREVENTION MEASURES

Gloves: **CHEMICAL RESISTANT GLOVES**	Respirator: **USE WITH ADEQUATE VENTILATION**.	Eye protection: **SAFETY GLASSES OR CHEMICAL GOGGLES**
Footwear: **NO SPECIAL REQUIREMENTS.**	Clothing: **NO SPECIAL REQUIREMENTS.**	Other requirements: **EYE WASH STATION**

Engineering Controls: NO SPECIAL VENTILATION REQUIRED.
Respiratory protection: USE WITH ADEQUATE VENTILATION.
Leak or spill procedures: VENTILATE AREA AND EXTINGUISH ALL SOURCES OF IGNITION. SOAK UP ON INERT ABSORBENT MATERIAL AND PLACE IN A PROPERLY MARKED CLOSED CONTAINER FOR PROPER DISPOSAL.
Waste disposal: CONSULT LOCAL ENVIRONMENTAL AUTHORITIES.
Handling and storage requirements: STORE IN A COOL, DRY PLACE. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN.
Special shipping information: NOT REGULATED BY TDG.

SECTION VIII - FIRST AID MEASURES

Eyes: FLUSH EYES AND UNDER EYELIDS FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.

Skin: WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.

Ingestion: CONTACT PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY. RINSE MOUTH WITH WATER ANG GIVE PERSON 1 OR 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Inhalation: MOVE TO FRESH AIR. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.

SECTION IX - PREPARATION DATA

Information Sources: SUPPLIERS' MATERIAL SAFETY DATA SHEET, CCOSH - CHEMINFO
Prepared by: SHARE CANADA
Telephone: 1-204-633-8553
Preparation date: March 11, 2005

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 491705 MANGO**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Acetone	67-64-1	500ppm
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 $\pm$ 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear/mango scent	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 491705

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 491655 TROPICAL NECTAR**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Acetone	67-64-1	500ppm
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 $\pm$ 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear/tropical scent	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 491655

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 491805 PEACH KIWI**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Acetone	67-64-1	500ppm
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 $\pm$ 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear/peach kiwi scent	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 491805

MATERIAL SAFETY DATA SHEET

GLASER MANUFACTURING
#27 - 547 MAIN STREET, E.
MILTON, ON L9T 3J2
(905) 876-4420

EMERGENCY CANUTEC #: 613-996-6666

SECTION I - PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: **BIO-ZYME**
CHEMICAL FAMILY: BIOLOGICAL DRAIN OPENER
PRODUCT USE: DRAIN CONTROL/STACK MAINTAINER

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	APPROX. %	CAS#	LD50/RAT, ORAL	LC50
VIABLE BACTERIAL CULTURES	60-100	N/A	NOT KNOWN	NOT KNOWN

SECTION III - PHYSICAL DATA

PHYSICAL STATE: LIQUID
ODOUR & APPEARANCE: SPICE ODOUR, WHITE

ODOUR THRESHOLD:	N/E	SPECIFIC GRAVITY:	1.01
VAPOUR PRESSURE:	N/AP	VAPOUR DENSITY (AIR=1):	N/AP
EVAPORATION RATE:	N/E	SOLUBILITY IN WATER:	MODERATE
BOILING POINT:	100ºC	pH:	8.0 – 8.5

COEFFICIENT OF WATER/OIL DISTRIBUTION: N/E

SECTION IV - FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY: NONE
EXTINGUISHING MEDIA: N/AP
HAZARDOUS COMBUSTION PRODUCTS: NONE KNOWN

UPPER FLAMMABILITY LIMIT:	N/AP	LOWER FLAMMABILITY LIMIT:	N/AP
AUTO IGNITION TEMP:	N/AP	EXPLOSION DATA:	N/AP
SENSITIVITY TO STATIC CHARGE:	N/AP		

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE
CONDITIONS TO AVOID: NONE
INCOMPATIBLE SUBSTANCES: STRONG ACIDS OR ALKALIS MAY INACTIVATE SOME BACTERIAL CULTURES.
HAZARDOUS DECOMPOSITION: NONE KNOWN
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION VI - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: SKIN CONTACT: YES SKIN ABSORPTION: YES EYE CONTACT: YES
INHALATION: YES INGESTION: YES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

THIS MATERIAL MAY CAUSE EYE OR SKIN IRRITATION. ORGANISMS USED ARE NON PATHOGENIC, BUT CAN CAUSE INFECTION WHEN IN CONTACT WITH OPEN WOUNDS. THESE ORGANISMS ARE SUSCEPTIBLE TO COMMONLY USED ANTIBIOTICS.

EFFECTS OF CHRONIC EXPOSURE:

NONE KNOWN. LIMITED TOXIC DATA ARE AVAILABLE ON THIS SPECIFIC PRODUCT. THIS HEALTH HAZARD ASSESSMENT IS BASED ON THE RESULTS OF SCREENING TESTS.

EXPOSURE LIMITS: N/E IRRITANCY OF MATERIAL: SLIGHT
SENSITIZATION OF MATERIAL: NONE KNOWN CARCINOGENICITY: NONE KNOWN

REPRODUCTIVE TOXICITY:	NONE KNOWN	TERATOGENICITY:	NONE KNOWN
MUTAGENICITY:	NONE KNOWN	SYNERGISTIC PRODUCTS:	NONE KNOWN

PRODUCT NAME: BIO-ZYME

SECTION VII - PREVENTIVE MEASURES

HAND PROTECTION: RUBBER OR VINYL GLOVES
EYE PROTECTION: SAFETY GLASSES
DEPENDING ON SEVERITY OF EXPOSURE:
RESPIRATORY PROTECTION: LOCAL EXHAUST ADEQUATE. USE NOISH APPROVED RESPIRATOR IF MISTING PRODUCT.
FOOT WEAR: RUBBER BOOTS IF CONTACT POSSIBLE
CLOTHING: AVOID SKIN CONTACT. LONG SLEEVE CLOTHING.
ENGINEERING CONTROLS: LOCAL EXHAUST ADEQUATE. USE NOISH APPROVED RESPIRATOR IF IN CONFINED AREAS.
LEAKS AND SPILL PROCEDURES: SMALL SPILLS: FLUSH WITH LARGE AMOUNTS OF WATER. LARGE SPILLS: COLLECT WITH ABSORBENT AND PLACE IN CONTAINERS FOR DISPOSAL.
WASTE DISPOSAL: REVIEW LOCAL GOVERNMENT REGULATIONS AND DISPOSE THROUGH LICENSED FACILITY.
HANDLING PROCEDURES & EQUIPMENT: AVOID EYE CONTACT.
STORAGE REQUIREMENTS: STORE IN A COOL, DRY AREA. DO NOT FREEZE.

SECTION VIII - FIRST AID MEASURES

PROCEDURES:
SKIN: REMOVE CONTAMINATED CLOTHING, WASH AND FLUSH GENEROUSLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.
INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DRINK LARGE AMOUNTS OF MILK OR WATER. SEEK MEDICAL ATTENTION IMMEDIATELY.

SECTION IX - TDG SHIPPING INFORMATION

WHMIS CLASSIFICATION: CLASS D, DIVISION 2B
TDG CLASSIFICATION: NONE
PIN #: NONE
PACKING GROUP: N/AP

SECTION X - HMIS HAZARD RATING INFORMATION

HEALTH: 1 FIRE: 0 REACTIVITY: 0 SPECIAL: NONE

HAZARD RATING SCALE: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

SECTION XI - PREPARATION INFORMATION

PREPARED BY: GLASER MANUFACTURING
PREPARATION DATE: JAN 2006

DISCLAIMER

THE INFORMATION CONTAINED HEREIN IS COMPILED FROM SOURCES BELIEVED TO BE RELIABLE. THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER AND ADDITIONAL CONSIDERATIONS. WE ACCEPT NO RESPONSIBILITY FOR THE ACCURACY, SUFFICIENCY, RELIABILITY OR FOR ANY LOSS OR INJURY RESULTING FROM THE USE OF THE INFORMATION.

NATIONAL SANITARY SUPPLY CO.
13217 S. Figueroa Street
Los Angeles, California 90061
Emergency No. 1-800-535-5053 (INFOTRAC)

SECTION 1. IDENTIFICATION OF PRODUCT

Product Name: MINT O LINE MINT ODOR DEODORANT CLEANER Date Issued: 07/15/93
Supercedes: 06/01/90
National Item#: 1720XX

SECTION 2. INGREDIENTS

INGREDIENTS	CAS NUMBER	PERCENT	EXPOSURE LIMITS IN AIR OSHA PEL	ACGIH TLV	OTHER
ISOPROPYL ALCOHOL	67-63-01	14-16	400 ppm	TWA 400 ppm	
COCONUT OIL SOAP	61788-47-4	8-10	NOT ESTABLISHED		
METHYL SALICYLATE	119-36-8	< 2	NOT ESTABLISHED		
WATER		>50.00			

N/A = Not Applicable; N/D = Not Determined

SECTION 3. PHYSICAL DATA

Boiling Point (F): <212 Specific Gravity (Water=1): .86
Vapor Pressure (mm Hg.): 16 Percent Volatile (By Volume): 88
Vapor Density (Air=1): ND Evaporation Rate (Water =1): 1
Solubility in Water: SOLUBLE pH Range: 10.5
Appearance and Odor: CLEAR COLORLESS/MINT SCENT

Section 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): 108 F (TOC)
Extinguishing Media: CO2, DRY CHEMICAL, FOAM, WATER FOG
Special Fire Fighting Procedures: NORMAL FIRE FIGHTING PROCEDURES MAY BE USED. COOL AND USE CAUTION WHEN APPROACHING OR HANDLING FIRE-EXPOSED CONTAINERS.

Unusual Fire & Explosion Hazards: CONTAINERS MAY BURST IN HEAT.

SECTION 5. REACTIVITY DATA

Stability: STABLE

Incompatibility - Materials to Avoid: NONE KNOWN TO NSS

Hazardous Polymerization: WILL NOT OCCUR

Conditions to Avoid: NONE KNOWN TO NSS

Hazardous Decomposition Products: WHEN EXPOSED TO FIRE, PRODUCES NORMAL PRODUCTS OF COMBUSTION.

SECTION 6. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill Response: FOR SMALL SPILLS. DILUTE WITH WATER AND PICK UP WITH MOP AND PAIL OR WET PICK UP VACUUM. FOR LARGE SPILLS, DIKE AREA TO CONTAIN SPILL. CLEAN UP USING ABSORBENT MATERIAL. PLACE ALL CONTAMINATED MATERIAL IN A CLOSED CONTAINER FOR DISPOSAL.

Product Disposal: WASTE FOR DILUTED PRODUCT MAY BE FLUSHED TO SEWER. UNDILUTED PRODUCT RECOVERED FROM SPILLS MAY BE SENT TO A LICENSED DISPOSAL FACILITY TO BE DISPOSED OF IN ACCORDANCE WITH FEDERAL/STATE REGULATIONS AND LOCAL ORDINANCES.

Container Disposal: TRIPLE RINSE EMPTY CONTAINER THOROUGHLY WITH WATER AND DISCARD IN REGULAR TRASH COLLECTION IF ALLOWED BY LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 7. HEALTH HAZARD DATA

Symptoms of Overexposure:

Eye Contact: EYE IRRITANT. IF NOT PROMPTLY TREATED, EYE DAMAGE MAY RESULT.

Skin Contact: SKIN IRRITANT. IRRITATION CAN OCCUR FROM CONTACT WITH CONCENTRATED PRODUCT OR FROM PROLONGED CONTACT WITH DILUTED PRODUCT. REPEATED OR PROLONGED EXPOSURE TO DILUTED PRODUCT MAY LEAD TO DERMATITIS.

Inhalation: NO HEALTH EFFECTS ARE KNOWN TO OCCUR FROM INHALATION OF THIS PRODUCT UNDER NORMAL USE IN A WELL VENTILATED AREA. HIGH AIRBORNE CONCENTRATIONS OF MISTS OR SPRAYS OF THIS PRODUCT MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT.

Ingestion: INGESTION OF THIS PRODUCT MAY CAUSE DAMAGE TO THE MEMBRANES OF THE MOUTH, THROAT, AND GASTROINTESTINAL TRACT WHICH THE PRODUCT CONTACTS. BURNS OF THE MOUTH AND THROAT, NAUSEA, VOMITING, CRAMPS, AND DIARRHEA MAY OCCUR.

Primary Routes of Entry: EYES, SKIN

THE ISOPROYL ALCOHOL LISTED IN SECTION 2 IS NOT LISTED ON THE OSHA, NTP OR IARC MONOGRAPH CARCINOGEN LISTS.

SECTION 8. EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH THE EYE WITH LARGE QUANTITIES OF RUNNING WATER FOR A MINIMUM OF 15 MINUTES. HOLD THE EYELIDS APART DURING THE IRRIGATION TO ENSURE FLUSHING OF THE ENTIRE SURFACE OF THE EYE LID WITH WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

Skin Contact: FLUSH THE EFFECTED AREA WITH LARGE QUANTITIES OF RUNNING WATER WHILE REMOVING CONTAMINATED CLOTHES AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

Inhalation: REMOVE FROM CONTAMINATED AREA. IF SYMPTOMS OF RESPIRATORY DISCOMFORT PERSISTS, GET MEDICAL ATTENTION.

Ingestion: REQUIRES IMMEDIATE MEDICAL MANAGEMENT. DRINK MILK OR WATER AND GET MEDICAL ADVICE. VOMITING SHOULD BE INDUCED ONLY ON RECOMMENDATION OF MEDICAL PERSONNEL.

SECTION 9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

Ventilation: ROOM VENTILATION IS ADEQUATE.

Protection Gloves: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

Eye Protection: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

Other Protective Clothing/Equipment: WHERE GROSS EYE OR SKIN CONTACT MAY OCCUR, USE APPROPRIATE PROTECTIVE EQUIPMENT.

Product Name: MINT O LINE MINT ODOR DEODORANT CLEANER
Date Issued: 07/15/93
National Item#: 1720

SECTION 10. ADDITIONAL INFORMATION AND PRECAUTIONS

Handling and Storage Precautions: STORE IN A COOL DRY PLACE. REPLACE CAP AFTER USE. KEEP OUT OF REACH OF CHILDREN.

SARA TITLE III H&P RATINGS: Acute, YES; Chronic, NO; Fire, YES; Press. Release, NO; Reactive, NO;

NFPA RATINGS: HEALTH - 1 FIRE -3 REACTIVITY -0 SPECIFIC -1

THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET REPRESENTS THE LATEST DATA AND BEST OPINION AS TO THE PROPER USE AND HANDLING OF THIS PRODUCT UNDER NORMAL CONDITIONS. ANY USE OF THIS PRODUCT OR METHOD OF APPLICATION WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET AND THE PRODUCT LABEL DIRECTIONS, IS THE RESPONSIBILITY OF THE USER. THIS MATERIAL SAFETY DATA SHEET WAS PREPARED TO COMPLY WITH THE OSHA HAZARD COMMUNICATION REGULATION.

Material Safety Data Sheet

May be used to comply with
OSHA=S Hazard Communication Standard
29 CFR 2910.1200. Standard must be
consulted for specific requirements.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

Identity (As Used on Label and List) #202 Big D Fire D One-Shot	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer=s Name Big D Industries, Inc.	Emergency Telephone Number (800) 535-5053 (800) 654-4752
Address (number, Street, City, State, and ZIP Code) 5620 S. W. 29th Street (73179)	Telephone Number for Information (800) 654-4752 (405) 682-2541
P. O. Box 82219	Date Prepared 01/01/2007
Oklahoma City, OK 73148	Signature of Preparer (optional)

Section II - HMIS Rating

Health	1	Flammability	4	Reactivity	1

Section III - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s)) %(optional)	OSHA PEL	ACGIH TLV	Other Limits Rcmnd.
Acetone CAS #67-64-1	500 ppm	500 ppm	-
Amyl Acetate CAS #628-63-7	100 ppm	100 ppm	-
Ethyl Acetate CAS #141-78-6	400 ppm	400 ppm	
Liq. Petrole\um Gas - CAS #68476-85-7	1000 ppm	1000 ppm	

Section IV - Physical/Chemical Characteristics

Boiling Point	-44 - 135^{0}F Conc.	Specific Gravity (H_2O = 1) 0.5677	N/E
Vapor Pressure (mm Hg.)	N/E	Melting Point	N/A
Vapor Density (AIR = 1)	>1	Evaporation Rate	<1

Solubility in Water: Slight

Appearance and Odor: Produces fine mist with pleasant fragrance. Liquid is transparent.

Section V - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits N/A	LEL	UEL
		1.8%	12.8

Extinguishing Media Carbon dioxide, dry foam, water spray

Special Fire Fighting Procedures Self contained air supply suggested.

Unusual Fire and Explosion Hazards Keep containers cool (below 130^{0}F) to avoid bursting.

Section VI - Reactivity Data

Stability	Unstable		Conditions to Avoid: None
	Stable	X	

Incompatibility (Materials to Avoid): Avoid contact with strong oxidizing agents such as nitric acid.

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization	May Occur		Conditions to Avoid: None
	Will Not Occur	X	

Section VII - Health Hazard Data

Route(s) of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes

Health Hazards (Acute and Chronic):

Acute - Propellant is an asphyxiant and may exhibit properties at high concentrate. Chronic - Unconsciousness

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure: Skin - possible frostbite burn. Eyes - burning sensation. Inhalation - Headache, nausea, disorientation.

Medical Conditions
Generally Aggravated by Exposure: Emphysema

Emergency and First Aid Procedures: Eye contact: flush with large amounts of water. May cause corneal damage on prolonged contact. Seek medical attn.

Ingestion: Do not give anything by mouth to an unconscious person. Seek Medical attn. Inhalation: remove person to fresh air . Administer artificial respiration if not breathing. Seek medical attn.

Section VIII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

If container is ruptured and begins to leak, place in a well ventilated area and eliminate all ignition sources.

Waste Disposal Method: do not discard empty container in incinerator or fire. Dispose of in accordance with Local, State, and Federal regulations.

Precautions to be Taken in Handling and Storing: Store in cool area away from heat or open flame. Do not store above 130^0F as containers may burst

releasing the highly flammable propellant. AStore as Level Aerosol (NFPA 30B)

Other precautions: In case of rupture, ventilate to prevent concentrations from reaching flammable levels. Note: any copies or redistribution of this M.S.D. Sheet must not be modified in any way.

Section IX - Control Measures

Respiratory Protection (Specify Type): Self contained breathing apparatus.

Ventilation	Local Exhaust:: Doors & windows open	Special N/A
	Mechanical (General) Fan	Other N/A

Protective Gloves: Rubber or plastic for prolonged contact	Eye Protection: Safety goggles for splash protection

Other Protective Clothing or Equipment: Eye wash/shower facility nearby

Work/Hygienic Practices: Good housekeeping practices. Avoid skin/eye contact.

MATERIAL SAFETY DATA SHEET

MSDS 0091

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
RectorSeal Concentrated Evaporator Coil Cleaner

PRODUCT CODES
82552, 82555, 82558

CHEMICAL FAMILY
Organic/Inorganic

USE
Coil Cleaner

MANUFACTURER'S NAME
The RectorSeal Corporation
2601 Spenwick Drive
Houston, Texas 77055 USA

DATE OF PREPARATION
June 30, 2005

HMIS CODES

Health	2
Flammability	0
Reactivity	0
PPI	B

EMERGENCY TELEPHONE NO.
Chemtrec 24 Hours
(800) 424-9300

TECHNICAL SERVICE TELEPHONE NO.
(800) 231-3345

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
1-5	111-76-2	Glycol Ether EB	
		ACGIH TLV	25 ppm
		OSHA PEL	25 ppm

Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

Irritation to eyes, nose, and throat; drowsiness, narcosis, tremors, and other CNS effects at high concentrations. Skin irritation, dermatitis, and defatting.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION

Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression, and unconsciousness.

EYE CONTACT

Watering, blurred vision, inflammation, and irritation which can result in corneal injury.

SKIN CONTACT

Irritation, dermatitis.

INGESTION

Nausea, vomiting; CNS depression; irritation of gastrointestinal tract, liver and peritoneal wall; lung congestion.

SUMMARY OF CHRONIC HAZARDS

Skin irritation, contact dermatitis, and defatting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt

action is essential.
If on SKIN: Immediately wash with soap and water. Remove and wash any contaminated clothing.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.
If SWALLOWED: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
None	N/D	N/D

EXTINGUSING MEDIA
Non-flammable. Use agents appropriate for surrounding fires.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and other protective clothing. Hazardous decomposition products possible (see Section 10).
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Use absorbent materials to prevent footing hazard and to contain. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames.
OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators during soldering operations until fumes have dissipated.
VENTILATION - LOCAL EXHAUST: Acceptable
SPECIAL: Explosion proof
MECHANICAL (GENERAL): Acceptable
OTHER: N/A
PROTECTIVE GLOVES: Wear rubber gloves.
EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant coveralls recommended.
WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	212 F (100 C) @ 760mm Hg
SPECIFIC GRAVITY (H20 = 1):	0.99
VAPOR PRESSURE (mm Hg):	17 @ 68 F (20 C)
MELTING POINT:	N/A
VAPOR DENSITY (AIR = 1):	<1

EVAPORATION RATE (ETHYL ACETATE = 1): >1
APPEARANCE/ODOR: Green Liquid / Mild Odor
SOLUBILITY IN WATER: Soluble

Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: None
INCOMPATIBILITY (MATERIALS TO AVOID): Heat, sparks and open flames.
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, and fragmented hydrocarbons.
HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA
Ingredient Name

Glycol Ether EB
Oral-Rat LD50:470 mg/kg
Inhalation-Rat TCLo:200 ppm/6H

Section 12 -- Ecological Information

ECOLOGICAL DATA
Ingredient Name

Glycol Ether EB

Food Chain Concentration Potential	None
WATERFOWL TOXICITY	N/A
BOD	26%
AQUATIC TOXICITY	1000 ppm/24 hr/brine shrimp/TLm

Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated liquid waste.
Disposal Method: Dispose of in accordance with local, state and federal regulations.

Section 14 -- TRANSPORTATION INFORMATION

DOT: Non-regulated
OCEAN (IMDG): Non-regulated
AIR (IATA): Non-regulated
WHMIS (CANADA): Non-regulated

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
Ingredient Name

Glycol Ether EB

SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Section 16 -- OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001

MATERIAL SAFETY DATA SHEET

MSDS 0091

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PRODUCT NAME
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PRODUCT CODES
82552, 82555, 82558

CHEMICAL FAMILY
Organic/Inorganic

USE
Coil Cleaner

MANUFACTURER'S NAME
The RectorSeal Corporation
2601 Spenwick Drive
Houston, Texas 77055 USA

DATE OF PREPARATION
June 30, 2005

HMIS CODES

Health	2
Flammability	0
Reactivity	0
PPI	B

EMERGENCY TELEPHONE NO.
Chemtrec 24 Hours
(800) 424-9300

TECHNICAL SERVICE TELEPHONE NO.
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% by WT	CAS No.	INGREDIENT	UNITS
1-5	111-76-2	Glycol Ether EB	
		ACGIH TLV	25 ppm
		OSHA PEL	25 ppm

Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

Irritation to eyes, nose, and throat; drowsiness, narcosis, tremors, and other CNS effects at high concentrations. Skin irritation, dermatitis, and defatting.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION

Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression, and unconsciousness.

EYE CONTACT

Watering, blurred vision, inflammation, and irritation which can result in corneal injury.

SKIN CONTACT

Irritation, dermatitis.

INGESTION

Nausea, vomiting; CNS depression; irritation of gastrointestinal tract, liver and peritoneal wall; lung congestion.

SUMMARY OF CHRONIC HAZARDS

Skin irritation, contact dermatitis, and defatting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt

action is essential.
If on SKIN: Immediately wash with soap and water. Remove and wash any contaminated clothing.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.
If SWALLOWED: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
None	N/D	N/D

EXTINGUSING MEDIA
Non-flammable. Use agents appropriate for surrounding fires.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and other protective clothing. Hazardous decomposition products possible (see Section 10).
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Use absorbent materials to prevent footing hazard and to contain. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames.
OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators during soldering operations until fumes have dissipated.
VENTILATION - LOCAL EXHAUST: Acceptable
SPECIAL: Explosion proof
MECHANICAL (GENERAL): Acceptable
OTHER: N/A
PROTECTIVE GLOVES: Wear rubber gloves.
EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant coveralls recommended.
WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	212 F (100 C) @ 760mm Hg
SPECIFIC GRAVITY (H20 = 1):	0.99
VAPOR PRESSURE (mm Hg):	17 @ 68 F (20 C)
MELTING POINT:	N/A
VAPOR DENSITY (AIR = 1):	<1

EVAPORATION RATE (ETHYL ACETATE = 1): >1
APPEARANCE/ODOR: Green Liquid / Mild Odor
SOLUBILITY IN WATER: Soluble

Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: None
INCOMPATIBILITY (MATERIALS TO AVOID): Heat, sparks and open flames.
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, and fragmented hydrocarbons.
HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA
Ingredient Name

Glycol Ether EB
Oral-Rat LD50:470 mg/kg
Inhalation-Rat TCLo:200 ppm/6H

Section 12 -- Ecological Information

ECOLOGICAL DATA
Ingredient Name

Glycol Ether EB

Food Chain Concentration Potential	None
WATERFOWL TOXICITY	N/A
BOD	26%
AQUATIC TOXICITY	1000 ppm/24 hr/brine shrimp/TLm

Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated liquid waste.
Disposal Method: Dispose of in accordance with local, state and federal regulations.

Section 14 -- TRANSPORTATION INFORMATION

DOT: Non-regulated
OCEAN (IMDG): Non-regulated
AIR (IATA): Non-regulated
WHMIS (CANADA): Non-regulated

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
Ingredient Name

Glycol Ether EB

SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Section 16 -- OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001

MATERIAL SAFETY DATA SHEET

MSDS 0128

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
Clean-N-Safe Aerosol Coil Cleaner

PRODUCT CODES
83780

CHEMICAL FAMILY
Organic/Inorganic

USE
Coil Cleaner

MANUFACTURER'S NAME
The RectorSeal Corporation
2601 Spenwick Drive
Houston, Texas 77055 USA

DATE OF PREPARATION
June 8, 2005

HMIS CODES

Health	2
Flammability	2
Reactivity	0
PPI	B

EMERGENCY TELEPHONE NO.
Chemtrec 24 Hours
(800) 424-9300

TECHNICAL SERVICE TELEPHONE NO.
(800) 231-3345

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
--	9036-19-5	Octylphenoxypolyethoxyethanol	
		ACGIH TLV	N/D
		OSHA PEL	N/D
--	57018-52-7	Polylene Glycol Butyl Ether	
		ACGIH TLV	N/D
		OSHA PEL	N/D
--	6834-92-0	Sodium Metasilicate	
		ACGIH TLV	N/D
		OSHA PEL	N/D

Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

Irritation to eyes, nose, and throat; drowsiness, narcosis, tremors, and other CNS effects at high concentrations. Skin irritation, dermatitis, and defatting.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION

Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression, and unconsciousness.

EYE CONTACT

Watering, blurred vision, inflammation, and irritation which can result in corneal injury.

SKIN CONTACT

Irritation, dermatitis.

INGESTION

Nausea, vomiting; CNS depression; irritation of gastrointestinal tract, liver and peritoneal wall; lung congestion.

SUMMARY OF CHRONIC HAZARDS

Skin irritation, contact dermatitis, and defatting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

Section 4 -- FIRST AID MEASURES

If INHALED:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
If on SKIN:	Immediately wash with soap and water. Remove and wash any contaminated clothing.
If in EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.
If SWALLOWED:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Not combustible, Negative Flame Extension	N/D	N/D

NFPA Level 1 Aerosol

EXTINGUSING MEDIA

Use extinguishing agents appropriate for surrounding fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Aerosol cans are under pressure - exposure to temperatures above 120F can cause bursting or "rocketing" of cans.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Depressurize and dispose of empty cans

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Shake well before using. Keep away from heat, sparks and open flames. Prolonged exposure to direct sunshine or storage above 120 F may cause can to burst. Do not puncture or incinerate can.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): None required.

VENTILATION - LOCAL EXHAUST: N/A

SPECIAL: N/A

MECHANICAL (GENERAL): N/A

OTHER: N/A

PROTECTIVE GLOVES: None required.

EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None normally required.

WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	>230 F (110 C) @ 760mm Hg
SPECIFIC GRAVITY (H20 = 1):	1.0
VAPOR PRESSURE (mm Hg):	N/D
MELTING POINT:	N/A

VAPOR DENSITY (AIR = 1): N/D
EVAPORATION RATE (ETHYL ACETATE = 1): Similar to water
APPEARANCE/ODOR: Clear Liquid / Fresh Odor
SOLUBILITY IN WATER: Soluble

Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: Do not store in temperatures above 120 F.
INCOMPATIBILITY (MATERIALS TO AVOID): None known
HAZARDOUS DECOMPOSITION PRODUCTS: None known
HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA
Ingredient Name

- Octylphenoxypolyethoxyethanol
  - Oral-Rat LD50:4190 mg/kg
  - Inhalation-Rat LC50:N/D
- Polylene Glycol Butyl Ether
  - Oral-Rat LD50:N/D
  - Inhalation-Rat LC50:N/D
- Sodium Metasilicate
  - Oral-Rat LD50:1153 mg/kg
  - Inhalation-Rat LC50:N/D

Section 12 -- Ecological Information

ECOLOGICAL DATA
Ingredient Name

Octylphenoxypolyethoxyethanol		
	Food Chain Concentration Potential	N/D
	WATERFOWL TOXICITY	N/D
	BOD	N/D
	AQUATIC TOXICITY	N/D
Polylene Glycol Butyl Ether		
	Food Chain Concentration Potential	N/D
	WATERFOWL TOXICITY	N/D
	BOD	N/D
	AQUATIC TOXICITY	N/D
Sodium Metasilicate		
	Food Chain Concentration Potential	N/D
	WATERFOWL TOXICITY	N/D
	BOD	N/D
	AQUATIC TOXICITY	N/D

Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Aerosols
Disposal Method: Empty containers can be disposed of in trash. Full containers should be depressurized to separate liquid phase. The liquid phase is considered a D001 ignitable waste and should be incinerated. Dispose of all liquid waste in accordance with all local, state and federal regulations.

Section 14 -- TRANSPORTATION INFORMATION

DOT: Consumer Commodity, ORM-D
OCEAN (IMDG): Aerosols, Class 2, UN 1950, IMDG#2102, EMS#2-13
AIR (IATA): Aerosols, 2.2, UN1950, ERG#126
WHMIS (CANADA): Class A

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
Ingredient Name

Octylphenoxypolyethoxyethanol

SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Polylene Glycol Butyl Ether

SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Sodium Metasilicate

SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Section 16 -- OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 496655 ZENASHEEN H20**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Mineral Oil	8042-47-5	5 mg/m^3 as mist
Propane	74-98-6	2500ppm
Butane	106-97-8	800ppm
Isoparaffinic Hydrocarbon	64741-66-8	Not established
Silicone	63148-62-9	Not established
Isobutane	75-28-5	Not established
Ester	9007-48-1	Not established

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 451^0 F	Specific Gravity(H_2O=1):	0.89 $\pm$ 0.05
Solubility in Water:	Emulsion	Evaporation Rate:	Slower than Ether
Vapor Density(Air=1):	Heavier than air	pH:	10.75 $\pm$ 0.5

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	150^{O}F
Flash Point(Propellant):	<0^{O}F
Flammable Limits(Propellant):	LEL: 1.9 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 496655

MATERIAL SAFETY DATA SHEET
(SIMILAR TO OSHA FORM 174)

N.A. = Not Applicable
Not Est. = Not Established
Prop. = Proprietary

SECTION 1 - MANUFACTURER / DISTRIBUTOR INFORMATION

Product Name: FRESH START Concentrated Malodor Counteractant
Product #: 1415
Supplier's Name: National Chemical Laboratories of PA, Inc.
Supplier's Address: 401 N. 10th Street · Philadelphia PA 19123
Emergency Phone #: CHEM-TEL (800) 255-3924
HMIS Hazard Code: **Health:** 1 **Flammability:** 0 **Reactivity:** 0 **Other:** 0
Chemical Name: N.A. Proprietary Blend
Chemical Family: Odor Control Agent
Formula: N.A. Blended Product
D.O.T. Shipping Name: N/A
Hazard Class: N/A **D.O.T. ID#:** N/A

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	% Concentration Range	Hazard Ratings (TLV/PEL)
None			

SECTION 3 - PHYSICAL DATA

Boiling Point (°F): 212
Specific Gravity: 1.001
Vapor Pressure: = To Water
Evaporation Rate: = To Water
Vapor Density: = To Water
Solubility in Water: Complete
Appearance: Clear Blue Liquid
Odor: Astra

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point (°F): None to boiling (TOC)
Flammable Limits: Not Flammable
Extinguising Media: Foam, CO_2, water fog, BC/ABC extinguisher may be used in area where material is stored.
Special Fire Fighting Procedures: None known
Unusual Fire & Explosion Hazards: None known.

SECTION 5 - HEALTH HAZARD DATA

Route(s) of Entry: **Inhalation:** No **Skin:** Yes **Ingestion:** Yes **Threshold Limit Value:** Not Est.
Effects of Overexposure: May cause skin and eye irritation. May be harmful if swallowed.
Emergency & First Aid Procedures: **For Eyes:** Flush eyes with water for at least fifteen minutes. If irritation persists seek medical attention. **For Skin:** Flush skin thoroughly with water. If irritation persists seek medical attention. **If ingested:** Do not induce vomiting. Give large quantities of water. Seek medical attention. Never give anything by mouth to an unconscious person.
Conditions Aggravated by Exposure: May aggravate pre-existing pulmonary conditions.

Listed Carcinogen, Mutagen, Teratogen (Ingredient, Source, Amount): None

SECTION 6 - REACTIVITY DATA

Stability: Stable
Conditions to Avoid: None
Incompatibility: Avoid contact with acids and oxidizers.
Hazardous Decomposition Products: None known
Hazardous Polymerization: Will not occur.

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled: **Ventilate area and r**econtainerize by mopping, wet vacuum, or the use of a suitable absorbent.
Waste disposal method: Follow local, state and federal regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not required
Ventilation: Local
Protective Gloves: Recommended for prolonged contact.
Eye Protection: Goggles or safety glasses with side shields.
Other Protective Equipment: None.

SECTION 9 – SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store between 40°F and 120°F. Avoid contact with skin and eyes. Do not ingest.
Other Precautions: Keep out of reach of children. For professional use only.

The information contained in this MSDS was obtained from current and reliable sources, however the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of this company, it is not responsible for loss, injury and expense arising out of the product's improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use or disposal of this product which may be covered by this MSDS. The user is responsible for full compliance.

Date Prepared – 03/24/08 By: G.C.

MATERIAL SAFETY DATA SHEET
(SIMILAR TO OSHA FORM 174)

N.A. = Not Applicable
Not Est. = Not Established
Prop. = Proprietary

SECTION 1 - MANUFACTURER / DISTRIBUTOR INFORMATION

Product Name: FRESH START Concentrated Malodor Counteractant
Product #: 1415
Supplier's Name: National Chemical Laboratories of PA, Inc.
Supplier's Address: 401 N. 10th Street · Philadelphia PA 19123
Emergency Phone #: CHEM-TEL (800) 255-3924
HMIS Hazard Code: **Health:** 1 **Flammability:** 0 **Reactivity:** 0 **Other:** 0
Chemical Name: N.A. Proprietary Blend
Chemical Family: Odor Control Agent
Formula: N.A. Blended Product
D.O.T. Shipping Name: N/A
Hazard Class: N/A **D.O.T. ID#:** N/A

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	% Concentration Range	Hazard Ratings (TLV/PEL)
None			

SECTION 3 - PHYSICAL DATA

Boiling Point (°F): 212
Specific Gravity: 1.001
Vapor Pressure: = To Water
Evaporation Rate: = To Water
Vapor Density: = To Water
Solubility in Water: Complete
Appearance: Clear Blue Liquid
Odor: Astra

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point (°F): None to boiling (TOC)
Flammable Limits: Not Flammable
Extinguising Media: Foam, CO_2, water fog, BC/ABC extinguisher may be used in area where material is stored.
Special Fire Fighting Procedures: None known
Unusual Fire & Explosion Hazards: None known.

SECTION 5 - HEALTH HAZARD DATA

Route(s) of Entry: **Inhalation:** No **Skin:** Yes **Ingestion:** Yes **Threshold Limit Value:** Not Est.
Effects of Overexposure: May cause skin and eye irritation. May be harmful if swallowed.
Emergency & First Aid Procedures: **For Eyes:** Flush eyes with water for at least fifteen minutes. If irritation persists seek medical attention. **For Skin:** Flush skin thoroughly with water. If irritation persists seek medical attention. **If ingested:** Do not induce vomiting. Give large quantities of water. Seek medical attention. Never give anything by mouth to an unconscious person.
Conditions Aggravated by Exposure: May aggravate pre-existing pulmonary conditions.

Listed Carcinogen, Mutagen, Teratogen (Ingredient, Source, Amount): None

SECTION 6 - REACTIVITY DATA

Stability: Stable
Conditions to Avoid: None
Incompatibility: Avoid contact with acids and oxidizers.
Hazardous Decomposition Products: None known
Hazardous Polymerization: Will not occur.

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled: **Ventilate area and r**econtainerize by mopping, wet vacuum, or the use of a suitable absorbent.
Waste disposal method: Follow local, state and federal regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not required
Ventilation: Local
Protective Gloves: Recommended for prolonged contact.
Eye Protection: Goggles or safety glasses with side shields.
Other Protective Equipment: None.

SECTION 9 – SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store between 40°F and 120°F. Avoid contact with skin and eyes. Do not ingest.
Other Precautions: Keep out of reach of children. For professional use only.

The information contained in this MSDS was obtained from current and reliable sources, however the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of this company, it is not responsible for loss, injury and expense arising out of the product's improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use or disposal of this product which may be covered by this MSDS. The user is responsible for full compliance.

Date Prepared – 03/24/08 By: G.C.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 491963 ZENEZE FOGGER**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	5-31-02

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	CAS No.:	TLV:	Carcinogen:
Water	7732-18-5	Not applicable	No
Surfactant	68298-20-4	Not established	No
Surfactant	68412-54-4	Not established	No
Methyl Ether	115-10-6	Not established	No
Perfume	Proprietary	Not available	No

This formula contains no ingredients subject to the reporting requirements of SARA title III, section 313.

SECTION 3 PHYSICAL DATA

Boiling Point:	$<0^0$ F	Specific Gravity :	$1.01 \pm .01$
Solubility in Water:	Complete	Evaporation Rate(H_2O=1):	1.0 ± 0.2
Physical Description:	Clear liquid, unique scent	pH (Concentrate):	10.0 ± 0.5

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point: Propellant: $<0^0$ F
Flammable Limits: LEL: 3.4 UEL: 27
Extinguishing Media: Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures: Aerosol cans may rupture when heated
Unusual Fire and Explosion Hazards: Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide and carbon monoxide.
Hazardous Polymerization:	Will not occur.

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120ºF
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.

EYES: Eye irritant. Will cause redness and burning sensation.

INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.

EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.

INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.

INGESTION: DO NOT induce vomiting. Seek medical attention immediately. Note: Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: None normally required.

Ventilation: Provide local exhaust.

Protective Gloves: None required if spraying.

Eye Protection: ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.

Other Protective Equipment: Long sleeves and long pants.

Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 491963

The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #:FH/F/2007/RPRL-6YWNSS Issue Date: 3/22/07
FH/F/2006/NMNE-6SCML6
Supersedes: FH/F/2004/VBVV-63YQ5Y Issue Date: 8/30/04

SECTION I - PRODUCT IDENTIFICATION

Identity: **Fabric Refresher** **Finished Product**

Brands: **FEBREZE FABRIC REFRESHER (Allergen Reducer, Extra Strength, Pet Odor Eliminator, Spring & Renewal, Meadows & Rain, Linen & Sky, Citrus & Light, Auto, and Lavender Vanilla & Comfort)**

P&G Telephone Number: 1-800-308-EASY (1-800-308-3279)
or call Local Poison Control Center or your physician.

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: None known.

Eye Contact: Mild eye irritant.

Skin Contact: Prolonged skin contact may result in transient, superficial effects similar to those produced by mild toilet soap

Inhalation: None known.

Signs and Symptoms of Exposure:

Ingestion: Possible mild gastrointestinal irritation with nausea, vomiting, and/or diarrhea.

Eye Contact: Instillation into the eye may result in transient, superficial effects similar to those produced by mild toilet soap.

Skin Contact: Prolonged skin contact may result in transient, superficial effects similar to those produced by mild toilet soap.

Inhalation: None known.

Medical Conditions Generally Known to be Aggravated by Exposure: None known.

Potential Environmental Effects: (See Section 12 for more information)

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients listed on the product label are: Water, alcohol, odor eliminator derived from corn, and fragrance.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

Chemical Name	Common Name	CAS No.	Composition Range	LD50/LC50
Ethyl Alcohol	Ethanol	64-17-5	1-5%	7.06 g/kg rat, oral

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: Dilute with fluids and treat symptomatically.

Eye Contact: Rinse well with water for at least 15 minutes.

Skin Contact: Rinse with water.

Inhalation: Remove to fresh air.

Note to Physician: Treat symptomatically.

Other: Consumer product package has the following precautionary statement: USE ONLY AS INTENDED. **KEEP OUT OF THE REACH OF CHILDREN**. Do not spray directly toward face. If eye contact occurs, rinse well with water.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used):

Allergen Reducer: 136 ºF / 58 ºC (Closed Cup)

Other scent variants: 156 – 159 ºF / 68 – 71 ºC (Closed Cup)

Products do not sustain combustion (ASTM D 4206)

Flammable Properties: Products are not considered flammable, and do not sustain combustion

Upper Flammable Limit: N/K

Lower Flammable Limit: N/K

Explosive Limits: UEL: N/A LEL: N/A

Auto-ignition Temperature: N/K

Hazardous Combustion Products: None known

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

Extinguishing Media:

Suitable: CO2, water, or dry chemical may be used.

Unsuitable: N/K

Protection of Firefighters:

Specific Hazards Arising from the Material: None known

Protective Equipment and Precautions for Firefighters: Normal fire-fighting gear.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: Disposal is to be performed in compliance with federal, state/provincial and local regulations. Slowly flush down sewer with excess water or dispose as liquid scrap. Discard empty container in trash. Do not landfill liquids.

Methods for Containment: Dike or contain spill. Absorb with inert material and dispose. Flush area with water. Prevent washings from entering waterways. Sorbents may be used.

Methods for Cleanup: Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak. Any spills are to be prevented from entering waterways. Sorbents may be used.

Other Information: (if applicable)

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: None.

Precautions To B e Taken in Storage: Store at room temperature.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm
OSHA Z-1 PEL 1000 ppm

Engineering Controls: None required

Personal Protective Equipment (PPE):

Eye/Face Protection: None required for normal consumer use.

Industrial setting: If a splash of solution is likely, chemical goggles may be needed.

Skin Protection: None required for normal consumer use.

Industrial setting: Minimize skin contact with protective gloves (rubber or neoprene).

Respiratory Protection: None required with normal consumer use.

Industrial setting: Use ventilation to minimize exposure to vapor or mist (ethanol).

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape):
Clear liquid

Odor: Products are perfumed.

Odor Threshold: N/A

Physical State: Liquid

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Boiling Point: ~ 212 ºF / ~ 100 ºC

Partition Coefficient (n-octanol/water): N/A

Flash Point (Method Used):
Allergen Reducer: 136 ºF / 58 ºC (CC)
Other scent variants: 156 – 159 ºF / 68 – 71 ºC (CC)
Products do not sustain combustion (ASTM D 4206)

Reserve Alkalinity: N/A

Solubility in Water: Soluble

Decomposition Temperature: N/A

Evaporation Rate (nBuOAc=1): N/K

Specific Gravity/Density: ~ 1.0

Melting/Freezing Point: N/A

pH (100% solution):
Allergen Reducer: pH = 6.5 -6.9
Other scent variants: pH = 7.8 – 8.0

Volatile Organic Compound (VOC): Product complies with State and Federal regulations for VOC content.

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: N/K

Incompatible Materials: N/K

Hazardous Decomposition Products: N/K

Possibility of Hazardous Reactions: N/K

SECTION XI - TOXICOLOGICAL INFORMATION

Febreze is practically nontoxic. If ingested, it may be mildly irritating.
LD50 (oral): > 5000 mg/kg (estimated).
LD50 (dermal): > 5000 mg/kg (estimated).

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: NTP: No **IARC:** No **OSHA:** No

SECTION XII - ECOLOGICAL INFORMATION

There are no concerns at relevant environmental concentrations. Based on ecotoxicity and fate data for the individual ingredients in this formulation and for similar consumer product formulations, this product is anticipated to be non-hazardous to the environment following consumer usage.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Disposal is to be performed in compliance with federal, state/provincial and local regulations.

Non-household Setting (US Federal): Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations.

Non-Household Setting (California): Not hazardous.

Household Use: Product used in household may be disposed of in refuse or in sewer.

SECTION XIV - TRANSPORT INFORMATION

Ground Transport (US DOT): Products covered by this MSDS, in their original form, are not regulated for transportation.

Air Transport (IATA): – not regulated

Marine/Water Transport (IMDG): – not regulated

SECTION XV - REGULATORY INFORMATION

United States:

All intentionally-added components of this (these) product(s) are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA 313/302/304/311/312 chemicals: None

California: This product has been evaluated and does not require warning labeling under California Proposition 65.

California Registration Number: Not Applicable

State Right-to-Know and CERCLA:
The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists

Ingredient	CAS #	Level	CERCLA RQ	State IL	MA	NJ	PA	RI
Ethanol	64-17-5	1-5%	100 lbs.	X	X	X	X	X

Canada:

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

Other: Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

SECTION XVI - OTHER INFORMATION

P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	2	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable *N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

GLADE ODOR COUNTERACTANT

National Fire Protection Association (NFPA)		Hazardous Material Information System (HMIS)	
	Fire Hazard: 4	Health	0
Health: 0	Reactivity: 0	Fire Hazard	4
	Specific Hazard	Reactivity	0

Protective Clothing None required.

Emergency Overview Colorless. Aerosol. See Section 9.
CAUTION: CONTENTS UNDER PRESSURE. May be mildly irritating to eyes.

Section 1. Chemical Product and Company Identification

Product Name	**GLADE ODOR COUNTERACTANT**	**Code**	94783
Product Use	Industrial/Institutional: Air care.	**PMS#**	433317
MSDS#	126232001	**Validation Date**	04/19/2000
		Print Date	04/20/2000
		Supersedes	04/13/2000.
		In Case of Emergency	(800) 851-7145

U.S. Headquarters
Drackett Professional
A Division of
S.C. Johnson Commercial Markets, Inc.
8310 16th Street
Sturtevant, Wisconsin 53177-0902
Phone: (888) 352-2249

Section 2. Composition and Information on Ingredients

Ingredients	CAS #	% by Weight	Exposure Limits	LC50/LD50
Isobutane	75-28-5	5-10	Not available.	VAPOR (LC50): Acute: 0.0057 ppm 0.25 hours [Rat].
Propane	74-98-6	5-10	TWA: 1800 (mg/m^3) from OSHA (PEL) [United States] TWA: 4508 (mg/m^3) from ACGIH (TLV) [United States]	Not available.
Butane	106-97-8	10-30	TWA: 1900 (mg/m^3) from OSHA (PEL) [United States] TWA: 1900 (mg/m^3) from ACGIH (TLV) [United States]	Not available.
Water	7732-18-5	60-100	Not available.	Not applicable.

Section 3. Hazards Identification

Routes of Entry Inhalation. Skin contact. Eye contact.

Potential Acute Health Effects

Eyes May be mildly irritating to eyes.

Skin None known.

Inhalation None known.

Ingestion None known.

Medical Conditions Aggravated by Overexposure: None known.

See Toxicological Information (section 11)

Continued on Next Page

GLADE ODOR COUNTERACTANT

Section 4. First Aid Measures

Eye Contact	Flush immediately with plenty of water. Get medical attention if irritation occurs.
Skin Contact	Rinse with plenty of running water.
Inhalation	No specific first aid measures are required.
Ingestion	No specific first aid measures are required.

Section 5. Fire Fighting Measures

Flammability of the Product	NFPA 30B Level 1 Aerosol.
Flash Points	CLOSED CUP: <-7°C (19.4°F).
Products of Combustion	None known.
Fire Fighting Media and Instructions	Extinguish with water spray or carbon dioxide, dry chemical powder or appropriate foam. Normal fire fighting procedure may be used.
Special Remarks on Fire and Explosion Hazards	Aerosol product - Containers may rocket or explode in heat of fire.

Section 6. Accidental Release Measures

Personal Precautions	Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions and Clean-up Methods	In the event of major spillage: Use appropriate containment to avoid environmental contamination. Sweep or scrape up material. Place in suitable clean, dry containers for disposal by approved methods. Use a water rinse for final clean-up.

Section 7. Handling and Storage

Handling	Avoid contact with eyes. Do not puncture or incinerate. FOR INDUSTRIAL USE ONLY
Storage	Store in a dry, cool and well-ventilated area. Protect from freezing. Keep away from heat, sparks and flame. Pressurized container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. KEEP OUT OF REACH OF CHILDREN.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	No special ventilation requirements. General room ventilation is adequate.
Personal Protection	
Eyes	No special protective clothing is required.
Hands	No special protective clothing is required.
Respiratory	No special protective clothing is required.
Feet	No special protective clothing is required.
Body	No special protective clothing is required.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Aerosol.)
Odor	Fragrance like.
Color	Colorless.
pH	Not applicable.
Solubility in water	Complete.

Continued on Next Page

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Excessive heat.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Produces normal products of combustion.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Acute toxicity	ORAL (LD50) Estimated to be greater than 5000 mg/kg (rat).
Effects of Chronic Exposure	None known.
Other Toxic Effects	Not available.

Section 12. Ecological Information

Not available.

Section 13. Disposal Considerations

Waste Information	If possible, recycle empty aerosol cans to the nearest steel recycling center. Use up package or give to someone who can. Dispose of according to all federal, state and local regulations.

Section 14. Transport Information

DOT Classification

DOT Proper Shipping Name	Aerosols
DOT Class	CLASS 2.1: Flammable gas.
UN/NA	UN1950
DOT Special Considerations	Limited Quantity

TDG Classification

TDG Proper Shipping Name	Aerosols
TDG Class	CLASS 2.1: Flammable gas.
PIN/NIP	UN1950
TDG Special Considerations	Limited Quantity

Section 15. Regulatory Information

Reporting in this section is based on ingredients disclosed in Section 2

US Regulations

Federal Clean air act (CAA) 112 accidental release prevention: Butane
Clean air act (CAA) 112 regulated flammable substances: Propane, Isobutane, Butane
CERCLA: Hazardous substances.: Propane, Isobutane

State New Jersey: Propane, Isobutane, Butane
Massachusetts spill list: Propane, Isobutane, Butane
Massachusetts RTK: Propane, Isobutane, Butane
Pennsylvania RTK: Propane, Isobutane, Butane

This product is not subject to the reporting requirements under California's Proposition 65.

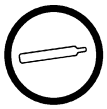
Registered Product Information Not applicable.

Canadian Regulations

WHMIS Classification CLASS A: Compressed gas.

Continued on Next Page

GLADE ODOR COUNTERACTANT

WHMIS Icon	
Registered Product Information	Not applicable.
Chemical Inventory Status	All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Section 16. Other Information

Other Special Considerations	Not available.
Version	1

Notice to Reader

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

RECKITT BENCKISER

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	**LYSOL® BRAND II DISINFECTANT SPRAY, ALL SCENTS (AEROSOL) - CANADIAN**
Product Description	Antibacterial action. Kills viruses, bacteria, mold and mildew. Eliminates odours.
Manufacturer	Reckitt Benckiser (Canada) Inc. 2 Wickman Road Toronto, Ontario M8Z 5M5
Product Identifier	Reg. No. 25094, P.C.P. Act
Item Number	59631-50709-06

MSDS#	Not available.
Validation Date	**2/28/2006**
Print Date	2/28/2006

In case of Emergency:	Telephone: 800-888-0192
Transportation Emergencies:	Chemtrec: 1-800-424-9300 (U.S. & Canada) Outside the U.S & Canada (North America), call: 703-527-3887

Formula Number	432-124A (359979) Original scent; 147-082 (356595) Country scent™; 147-083 (356596) Mountain scent; 73-087 (356593) Fresh scent; 258-011 (356597) Linen®; 192-031 (364000) Soft Powder®; 550-095 (367851) Spring Waterfall™.
UPC Number	59631-33072, 59631-50706 (Original/Parfum Originale); 59631-34082, 59631-50709 (Country/Parfum Campagnard); 59631-50615 (Mountain Air/Parfum de Montagne); 59631-32102 (Fresh/Parfum de Fraîcheur); 59631-26710, -34052 & -50710 (Linen/Linge); 59631-75571 (Spring Waterfall/Chute D'Eau Printainière) & 59631-75393 (364000) Soft Powder/Parfum Tendre de Poudre.

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
1) ETHANOL	64-17-5	79	TWA: 1880 (mg/m^3) from ACGIH (TLV) TWA: 1000 (ppm) from ACGIH (TLV) TWA: 1900 (mg/m^3) from OSHA (PEL) TWA: 1000 (ppm) from OSHA (PEL)
2) CARBON DIOXIDE	124-38-9	4.0	TWA: 9000 (mg/m^3) from ACGIH (TLV) TWA: 5000 (ppm) from ACGIH (TLV) TWA: 9000 STEL: 54 (mg/m^3) from OSHA (PEL) TWA: 5000 (ppm) from OSHA (PEL)

Section 3. Hazards Identification

Emergency Overview	DANGER: Extremely Flammable. Container may explode if heated. Keep away from heat, sparks and open flame. Exposure to temperatures above 55º C (130º F) may cause bursting. Causes eye irritation. Do not spray in eyes, on skin or on clothing. KEEP OUT OF REACH OF CHILDREN.

Section 4. First Aid Measures

Eye Contact	In case of eye contact, hold eyes open and IMMEDIATELY rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing for at least 15 minutes. If irritation persists, consult a physician.
Skin Contact	In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.
Inhalation	None required under recommended use conditions. Remove to fresh air.
Ingestion	Call a physician or poison control center immediately. Contains denatured ethanol; ingestion may result in ethanol poisoning. NEVER give an unconscious person anything to ingest.

Continued on Next Page

Section 5. Fire and Explosion Data

Flammability	Extremely flammable. See Section 14 for any Shipping Classifications.
Flash Point	Not applicable. Aerosol flame extension greater than 18 inches or 45 cm.
Explosive Limits in Air	LOWER: 3.3% UPPER: 19%
Products of Combustion	Carbon monoxide, carbon dioxide and other unknown organic compounds.
Fire and Explosion Hazards	Contents under pressure. Do not use in presence of open flame or sparks. Do not puncture or incinerate container or store at temperatures over 50°C. Container may explode if heated.
Fire Fighting Media and Instructions	Use DRY chemicals, CO2, water spray or foam. Use extinguishing media suitable for surrounding materials.
Special Fire Fighting Instructions	Product contents under pressure. Cool containers with water spray. Wear full protective equipment: eye/face (shield), body (full bunker gear), respiratory (SCBA). Provide shielding for venting, rupturing or bursting containers. Move containers away from fire, if possible and safe to do so.

Section 6. Accidental Release Measures

Accidental Spill	Small spills: Eliminate all sources of ignition. Absorb with an inert material and place in appropriate waste disposal container. Large spills: Eliminate all sources of ignition and ventilate the area with equipment rated for use in flammable environments. Collect liquid and store in metal containers for later disposal according to local, provincial or federal regulations.

Section 7. Handling and Storage

Handling and Storage	DANGER: Extremely flammable. Container may explode if heated. Contents under pressure. Do not use in presence of open flame or sparks. Do not puncture or incinerate container or store at temperatures over 50°C. Causes eye irritation. Do not spray in eyes, on skin or on clothing. Avoid contact with eyes or food. KEEP OUT REACH OF CHILDREN. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

Section 8. Exposure Controls/Personal Protection

Ventilation Requirements	None required. General ventilation should be sufficient to control airborne levels.
Eye Protection	Avoid contact with eyes. Emergency responders should wear full eye and face protection.
Skin Protection	May cause mild skin irritation after prolonged or repeated use. Emergency responders should wear impermeable gloves.
Respiratory Protection	None required under normal use conditions. Emergency responders should wear suitable respiratory protection where long term exposure to vapors from large areas of spilled liquid is possible such as a major spill, a fire or a clean-up operation.
Other Protection	None required under normal use conditions.
Work/Hygienic Practices	Washing with soap and water after use is recommended as good hygienic practice to prevent possible skin irritation and / or eye irritation from the residue that may be left on the hands.

Continued on Next Page

Section 9. Physical and Chemical Properties

Description	Aerosol spray.
pH	10 [Basic.]
Boiling/Condensation Point	Not available.
Specific Gravity	0.835 @ 25°C
Vapor Pressure	95-105 psig.
Vapor Density	The highest known value is 1.6 (Air = 1) (ETHANOL).
Viscosity	Not available.
Solubility	Complete.
Physical Chemical Comments	Not available.

Odor	Various scents.
Color	Clear (Spray mist).

Section 10. Stability and Reactivity Data

Chemical Stability	The product is stable.
Conditions of Instability	Danger: Extremely flammable. Container may explode if heated. Contents under pressure. Do not use in presence of open flame or sparks. Do not puncture or incinerate container or store at temperatures over 50°C.
Incompatibility with Various Substances	Do not use on polished wood furniture, rayon fabrics or acrylic plastics. Avoid contact with food.
Hazardous Decomposition Products	Toxic sulfur oxides can be released if heated to decomposition temperature.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Exposure effects

Eye Contact	Avoid contact with eyes. Causes eye irritation.
Skin Contact	None expected under recommended use conditions. Prolonged or repeated skin contact may result in slight to moderate skin irritation.
Inhalation	None expected.
Ingestion	Contains denatured alcohol; ingestion may result in ethanol poisoning.
Carcinogenicity	Not listed as carcinogenic by OSHA, NTP or IARC.

Section 12. Ecological Information

Ecotoxicity	Not available.

Continued on Next Page

Section 13. Disposal Considerations

Waste Disposal	This container may be recycled in communities where aerosol can recycling is available. Before offering for recycling, empty the can by using product according to the label (DO NOT PUNCTURE OR INCINERATE). If recycling is not available, contact your municipality or provincial Ministry of Environment for disposal information.

Section 14. Transport Information

DOT Classification	ORM-D
Proper Shipping Name	Consumer Commodity
DOT Identification Number	Not applicable.
Packing Group	Not applicable
Maritime Transportation	Not applicable.
Hazardous Substances Reportable Quantity	Not applicable.
Special Provisions for Transport	Not applicable.
TDG Classification	Consumer Commodity - Transborder Consignment.
ADR Classification	Not applicable.
IMDG Classification	Aerosols, Class 2.1, UN1950 - Limited Quantity.
IATA Classification	Consumer Commodity, 9 ID8000

Section 15. Regulatory Information

Federal and State Regulations

SARA Title III, Section 313 Toxic Chemical Notification & Release Reporting:

None

California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:

None

Other Classifications

WHMIS (Canada) CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

Section 16. Other Information

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	3
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)

Health

Fire Hazard

Reactivity

Specific hazard

NFPA Aerosol Level 1, per NFPA 30B

Validated by Product Safety on 2/28/2006.

Printed 2/28/2006.

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Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 494725 ZENABRITE LEMON**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Isoparaffinic HC Solvent	64742-48-9	Not Established
Butane	106-97-8	800ppm
Propane	74-98-6	2500ppm
Poly (dimethylsiloxane)	63148-62-9	Not Established

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 372^0 F	Specific Gravity(H_2O=1):	0.89 $\pm$ 0.05
Solubility in Water:	Nil	Evaporation Rate:	Slower than Ether
Vapor Density(Air=1):	Heavier than air	pH:	NA

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Non-Flammable
Flash Point(Propellant):	7^{O}F
Flammable Limits(Propellant):	LEL: 1.3 UEL: 9.8
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 494725

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
81410

HMIS CODES
Health 2
Flammability 2
Reactivity 0

PRODUCT NAME
DURA SEAL* DURA FINISH* Liquid Floor Wax, Neutral

MANUFACTURER'S NAME
MINWAX Company
10 Mountainview Road
Upper Saddle River, NJ 07458

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
31-MAR-07

INFORMATION TELEPHONE NO.
(800) 364-1359

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
51	64742-88-7	Mineral Spirits				
			ACGIH TLV	100	ppm	2 mm
			OSHA PEL	100	ppm	
3	64741-65-7	Mineral Spirits (Odorless)				
			ACGIH TLV	100	ppm	1 mm
			OSHA PEL	100	ppm	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.

CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Continued on page 2

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
103 F PMCC	1.0	7.0

FLAMMABILITY CLASSIFICATION
Combustible, Flash above 99 and below 200 F
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY
DOL Storage Class II

Continued on page 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

To minimize the possibility of spontaneous combustion: control the accumulation of overspray; soak wiping rags and waste immediately after use in a water-filled, closed metal container; air dry filters outside, far from any combustible material and separated by bricks or other non-combustible spacers; dispose of all contaminated materials and waste properly. Consult OSHA 29 CFR 1910.107(b)(5) and NFPA 33, Chapter 8 (8-9) for the proper procedures.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.28 lb/gal	872 g/l
SPECIFIC GRAVITY	0.88	
BOILING POINT	212 - 412 F	100 - 211 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.2	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

4.73 lb/gal	566 g/l	Less Water and Federally Exempt Solvents
3.90 lb/gal	468 g/l	Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

CAS No.	Ingredient Name				
64742-88-7	Mineral Spirits	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64741-65-7	Mineral Spirits (Odorless)	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Continued on page 5

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.
UN1263, PAINT, 3, PG III, (ERG#128)

Bulk Containers may be Shipped as:
UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.
UN1263, PAINT, CLASS 3, PG III, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG III, (39 C c.c.), EmS F-E, S-E

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Product #: FC 1800 | Distributor Number: BSL18000041 / BSL18000005 BSL18000055

Product Name: Reflections Neutral Floor Cleaner
Product Use: Film Free Damp Mop Concentrate
Distributor Name: Bright Solutions
Distributor Address: 4111 South Creek Road
Chattanooga, TN 37406
Emergency Phone #: 1-800-535-5053 Infotrac
Date Prepared/Updated: 7-6-03

Hazardous Material Information System (HMIS)

Health: 1
Fire Hazard: 0
Reactivity: 0
Precautionary Label Statements: Caution

Section 2. Composition and Information on Ingredients

Ingredients	CAS#	%	*Exposure Limits*
Water	7732-18-5	85-95	Not Listed
Poly(Oxyethylene/Oxypropylene) Glycol Ether	9003-11-6	<10	Not Listed
Nonylphenoxypolyethoxyethanol	68412-54-4	<10	Not Listed

Section 3. Hazards Identification

Route of Entry: Eyes
Potential Acute Health Effects: None known

Section 4. First Aid Measures

Eye Contact: Flush immediately with water for 15 minutes being careful to flush behind the eyelids. Seek medical attention if irritation persists or develops.
Inhalation: No harmful effects expected.
Skin Contact: No harmful effects expected. Prolonged or repeated contact may dry skin and cause irritation.
Ingestion: Immediately drink plenty of water. If discomfort persists, get medical attention.

Section 5. Fire Fighting Measures

Flashpoint: N/A *Method:* Tag Open Cup
Fire Fighting Media and Instructions: Extinguish with water spray or carbon dioxide; dry chemical powder or appropriate foam. Normal fire fighting procedure may be used.
Unusual Fire and Explosion Hazards: None Known

Section 6. Accidental Release Measures

Personal Precautions: Put on appropriate personal protective equipment (see section 8).
Environmental Precautions: In the event of major spillage: Use appropriate containment to avoid environmental contamination. Collect spilled material. Place is suitable clean, dry containers for disposal by approved methods. Use a water rinse for final clean up.

Section 7. Handling and Storage

Handling: Avoid contact with eyes. Use appropriate hygiene methods when handling product. For industrial use only.
Storage: Store in a cool well ventilated area. Protect from freezing. Keep out of reach of children.

Section 8. Exposure Controls & Personal Protection:

Engineering Controls: None usually needed. General room ventilation is adequate.

Personal Protection:
Eyes: No special requirements under normal use conditions.
Hands: No special requirements under normal use conditions
Respiratory No special requirements under normal use conditions
Additional Measures: N/A
Listed Carcinogen: **No ingredients listed by NTP, IARC or OSHA Subpart Z.**
Medical Condition Aggravated: Persons with pre-existing skin disorders may be susceptible to irritating effects.

Section 9. Physical and Chemical Properties

Fragrance: Citrus

Physical State Liquid
Color: Clear Yellow
pH: 7.0-9.0
Specific Gravity: 1.00
Boiling/Condensation Point: 212 Degrees F
Melting/Freezing Point: 32 Degrees F
Solubility in Water: Complete at 25 Degrees C

Section 10. Stability and Reactivity

Stability and Reactivity: Stable
Conditions of Instability: None Known
Incompatibility with Various Substances: None Known
Decomposition Products Hazardous Polymerization: When exposed to fire: Produces normal products of combustion.

Section 11. Toxicological Information

Effects of Chronic Exposure: None Known

Section 12. Ecological Information: None Known

Section 13. Disposal Considerations: Dispose of all wastes according to all federal, state and local legislation.

Section 14. Transport Information

DOT Classification: NOI Non-Hazardous

Section 15. Regulatory Information

Reporting in this section is based on ingredients disclosed in Section 2

U.S. Regulation Not Regulated.
Federal: Not Regulated.
State: Not Regulated.
Registered Product Information: Not EPA Registered.

Sara Section 312:
Immediate (Acute) Health

Sara Section 313: Toxic Release Inventory Reporting
Registered Product Information: None Present

Section 16. Other Information None reported.

Other Special Considerations: None reported.

Manufacturer: Midlab, Inc.
Address: 280 Industrial Park Road
Sweetwater, TN 37874

Primary Distributor: Kelsan, Inc.
Address: 5109 National Drive
Knoxville, TN 37914

Version: 1

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and must comply with all federal, state, Provincial and Local Laws and Regulations.

Product #1800

BSL18000041
BSL18000005
BSL18000055

JohnsonDiversey

INSTITUTIONAL FORMULA DRANO

HMIS		NFPA	Personal protective equipment
Health	3	3	
Fire Hazard	0	0	
Reactivity	0	0	

Version Number: 3 *Preparation date: 2007-05-17*

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: INSTITUTIONAL FORMULA DRANO

MSDS #: 126061002
Product code: 90485
Recommended use: Cleaning product.

Manufacturer, importer, supplier:

Consumer Branded Professional Products
JohnsonDiversey, Inc.
8310 16th Street
Sturtevant, Wisconsin 53177-0902
Phone: (888) 352-2249

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER. CORROSIVE. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED. NEVER USE OR MIX WITH ACIDS, AMMONIA OR ANY OTHER CHEMICAL.

Principle routes of exposure: Skin contact. Eye contact. Inhalation. Ingestion.
Eye contact: Corrosive. Causes permanent eye damage, including blindness.
Skin contact: Corrosive. May cause permanent damage.
Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.
Ingestion: Corrosive. Causes burns to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Sodium hydroxide	1310-73-2	30 - 40%	=140 mg/kg	=1350 mg/kg	Not available

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.
Skin contact: Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation: If breathing is affected, remove to fresh air. Get medical attention immediately.
Ingestion: DO NOT induce vomiting. If able to swallow, offer sips of water or milk. GET MEDICAL ATTENTION IMMEDIATELY. Never give anything by mouth to an unconscious person.
Notes to physician: Probable mucosal damage may contraindicate the use of gastric lavage.
Aggravated Medical Conditions: None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable. Dry chemical, water spray, foam, carbon dioxide.
Specific hazards: None known.
Unusual hazards: Corrosive material (See sections 8 and 10).
Specific methods: No special methods required.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Extinguishing media which must not be used for safety reasons: None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Put on appropriate personal protective equipment (see Section 8.).
Environmental precautions and clean-up methods: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling:
Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing and footwear before re-use. Do not taste or swallow. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. Do not mix with any other product or chemical . FOR COMMERCIAL AND INDUSTRIAL USE ONLY. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage:
Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:
General room ventilation is adequate. Respiratory protection is not required if good ventilation is maintained.

Personal Protective Equipment

Eye protection: Chemical-splash goggles.
Hand protection: Chemical-resistant gloves includes rubber gloves neoprene gloves
Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear.
Respiratory protection: No special requirements under normal use conditions. In case of insufficient ventilation wear suitable respiratory equipment.
Hygiene measures: Avoid contact with skin, eyes and clothing . Handle in accordance with good industrial hygiene and safety practice.

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Sodium hydroxide	1310-73-2	2 mg/m^3 (Ceiling)	2 mg/m^3 (TWA)	2 mg/m^3 (Ceiling)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	**Bulk density:**	No information available
pH:	>13	**Dilution pH:**	No information available.
Appearance:	Liquid	**Vapor density:**	No information available
Color:	Straw	**Evaporation Rate**	No information available
Odor:	Ammoniacal	**Boiling point/range:**	Not determined
Specific gravity:	1.35	**Melting point/range:**	Not determined
Density:	11.27 lbs/gal	**Decomposition temperature:**	Not determined
VOC:	0.0% *	**Autoignition temperature:**	No information available
Flash point:	>200°F >93.3°C	**Partition coefficient (n-octanol/water):**	No information available
Solubility:	Soluble	**Solubility in other solvents:**	No information available
Viscosity:	No information available	**Elemental Phosphorus:**	0 %P

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Stability: The product is stable
Polymerization: Hazardous polymerization does not occur
Hazardous decomposition products: None reasonably foreseeable..
Materials to avoid: Acids. Oxidising agents. Do not mix with any other product or chemical.
Conditions to avoid: Do not mix with any other product or chemical .

11. TOXICOLOGICAL INFORMATION

Acute toxicity Corrosive
Component Information: See Section 3

Chronic toxicity: None known

Specific effects

Carcinogenic effects: None known
Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: None known

12. ECOLOGICAL INFORMATION

Environmental Information: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Undiluted product is regulated under environmental and transportation laws as a corrosive waste. Dispose of according to all federal, state and local applicable regulations .

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories
All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

U.S. Regulations
California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Water	7732-18-5	-	-	-	-
Sodium hydroxide	1310-73-2	X	X	X	X

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sodium hydroxide	1310-73-2	30 - 40%	1000		

SARA 311/312 Hazard Categories

Immediate:	X
Delayed:	-
Fire:	-
Reactivity:	-
Sudden Release of Pressure:	-

Canada
WHMIS hazard class: E Corrosive material .

16. OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC
Additional advice: None

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Material Safety Data Sheet
May be used to comply with OSHA's
Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U. S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved OMB No. 1218-0072

IDENTITY (As Used on Label and List)	NOTE: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
Bab-O Powdered Cleanser	

SECTION I

Manufacturer's Name	Emergency Telephone Number
Fitzpatrick Bros., Inc.	***(262) 947-3500 X 617***
Address (Number, Street, City, State and ZIP Code)	Telephone Number for Information
	(262) 947-3500 X 617
625 North Sacramento Boulevard	Date Prepared ***07/25/2005***
Chicago, Illinois 60612	Signature of Preparer (optional)

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specify Chemical Identity: Common Name[s]) OSHA PEL ACGIH TLV Other Limits Recommended % (optional)

THIS PRODUCT CONTAINS: ***Calcium Carbonate (CAS# 1317-65-3)***

Sodium Carbonate (CAS# 497-19-8)

Sodium Dodecylbenzene Sulfonate (CAS# 25155-30-0

These basic materials have been identified as eye, skin, mucous membrane irritants.

SECTION III - Physical/Chemical Characteristics

Boiling Point		Specific Gravity (H_2O = 1)	
	N/A		***N/A***
Vapor Pressure (mm Hg.)		Melting Point	
	N/A		***N/A***
Vapor Density (AIR = 1)		Evaporation Rate (Butyl Acetate = 1)	
	N/A		***N/A***

Solubility in Water

Partially soluble in water

Appearance and Odor

White powder, no odor

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A	***N/A***	***N/A***	***N/A***

Extinguishing Media

Not a fire or explosive hazard

Special Fire Fighting Procedures

None

Unusual Fire and Explosion Hazards

None

SECTION V - Reactivity Data

Stability	Unstable	Stable	Conditions to Avoid
		X	Do not mix with ammonia or other household chemicals

Incompatability (Materials to Avoid)

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur	Will Not Occur	Conditions to Avoid
		X	

SECTION VI - Health Hazard Data

Routes of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	No	No

Health Hazards (Acute and Chronic)

This material is identified as an irritant to eyes and the respiratory tract.

Scouring powder is not irritating to the skin and is harmful if swallowed.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	Non-carcinogen		

Signs and Symptoms of Exposure

Eye and mucous membrane irritation

Medical Conditions Generally Aggravated by Exposure

Avoid contact with eyes. Avoid breathing dust.

Emergency and First Aid Procedures

In case of contact with eyes, wash with plenty of water for at least 15 minutes.

Get medical attention if excessive inhalation occurs. Remove victim to fresh air.

SECTION VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Normal clean-up procedures

Waste Disposal Method

Conform to state, federal and local regulations

Precautions to be Taken in Handling and Storing

Store in cool, dry, ventilated area

Other Precautions

SECTION VIII - Control Measures

Respiratory Protection (Specify Type)

If dusty, wear mask

Ventilation	Local Exhaust	Special
	Natural	
	Mechanical (General)	Other

Protective Gloves	Eye Protection
If needed	Wear goggles, if needed

Other Protective Clothing or Equipment

Optional

Work/Hygienic Practices

**** MATERIAL SAFETY DATA SHEET ****

Windex

SEC 1 - PRODUCT AND COMPANY INFO
SEC 2 - COMPOSITION INFORMATION
SEC 3 - HAZARDS IDENTIFICATION
SEC 4 - FIRST AID MEASURES
SEC 5 - FIRE FIGHTING MEASURES
SEC 6 - ACCIDENTAL RELEASE MEASURES
SEC 7 - HANDLING AND STORAGE
SEC 8 - EXPOSURE, PERS. PROTECTION
SEC 9 - PHYS, CHEM PROPERTIES
SEC 10 - STABILITY, REACTIVITY
SEC 11 - TOXICOLOGY INFORMATION
SEC 12 - ECOLOGICAL INFORMATION
SEC 13 - OTHER INFORMATION
SEC 14 - TRANSPORT INFORMATION
SEC 15 - REGULATORY INFORMATION
SEC 16 - ADDITIONAL INFORMATION

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Windex

Product CAS: (none)

Product Code:

Synonyms: Windex

Company Identification:

Name: S. C. JOHNSON WAX

Address:

Address:

City: RACINE, **State:** WI **Zip:** 53403-5635

For information, call: 414-631-2777

Emergency Number: 800-631-7145

Emergency Agency:

Number:

MSDS Creation Date: 7/1/93

Supersedes Date: 7/1/80

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

Chemical Name	CAS	MIN	MAX
Water	7732-18-5	90	90
Ammonium Hydroxide	1336-21-6	1	3
Ethanol	111-76-2	1	3
Isopropyl Alcohol	67-63-0	1	3

Lbs of VOC per Gallon Coating (minus water): 0.373

Coating Density (lbs/gal): 0

Solvent Density (lbs/gal): 0

Percent Solvent (volume): 0

Percent Solids (volume): 0

Percent Water (volume): 0

**** SECTION 3 - HAZARDS IDENTIFICATION ****

NFPA: Health: Fire: Reactivity: Other:

HMIS: Health: 1 **Fire:** 1 **Reactivity:** 1 **Special Protection:** X

POTENTIAL HEALTH EFFECTS

Target Organs:

Skin

Eye:

Sensation of irritation.

Skin:

Ingestion:

Inhalation:

Miscellaneous:

Animal studies clearly demonstrated dose-related adverse effects on the CNS, Hematopoietic tissues, blood, kidneys, and liver, associated w/administration of ethylene glycol monobutyul ether (EGBE).

**** SECTION 4 - FIRST AID MEASURES ****

Eye:

Flush with water for at least 15-20 minutes, if irritation persits, seek medical attention.

Skin:

Remove with soap and water.

Ingestion:

Drink large amount of water or milk. Seek medical aid.

Inhalation:

REmove to fresh air, support breathing

Notes to Physician:

**** SECTION 5 - FIRE FIGHTING MEASURES ****

Unusual Fire and Explosion Hazards:

No special hazards known.

Special Fire Fighting Procedures:

Use NIOSH/MSHA approved SCBA & Full protective equipment. Normal fire fighting procedures may be used.

Extinguishing Media:

Foam, co2, dry chemical, water fog

Flash Point:

>200F

Flammable Limits:

Lower Limit:

Upper Limit:

AutoIgnition Temperature:

General Information:

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

Disposal:

NO SPECIAL METH. OBSERVE ALL APPLIC FED/STATE REGS

Spills/Leaks:

CONTAINS AMMONIA. DO NOT LET SPILLED OR
LEAKING MATERIAL ENTER WATERCOURSE. MAY BE TOXIC TO AQUATIC LIFE.
ABSORB ON
OIL-DRI OR SIMILAR INERT MATERIAL. SWEEP OR SCRAPE UP & CONTAINERIZE.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Unplug electrical equipment before using product.

Storage:

Product residue may exist in empty containers.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Eyes:

ANSI approved chem. workers goggles.

Skin:

Imprevious gloves

Clothing:

Respirators:

NIOSH/MSHA approved respirator appropriate for exposure of concern. No
special requirements under normal use conditions.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Appearance/Odor:

Clear blue liquid w/ ammonia ordor

pH: SUPDAT

Vapor Pressure: 17.6 mmHg/70F

Vapor Density: 1.2

Evaporation Rate: 0.3 Butyl Acetate=1

Viscosity:

Boiling Point: 212F

Freezing/Melting Point:

Decomposition Temperature:

Solubility: Complete

Specific Gravity: .99

Molecular Formula:

Molecular Weight:

Miscellaneous:

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable

Conditions to Avoid:

None known

Incompatibilities with Other Materials:

None known

Hazardous Decomposition Products:

When exposed to fire, produces normal products of combustion.

Hazardous Polymerization:

No

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

Toxicological Information:

LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: NO
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYE CONTACT:SENSATTON OF IRRITATION.
ANIMAL STUDIES CLEARLY DEMONSTRATED DOSE-RELATED ADVERSE EFFECTS ON THE CNS, HEMATOPOIETIC TISSUES, BLOOD, KIDNEYS & LIVER, ASSOCIATED W/ADMINISTRATION OF ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE). (EXTRACTED FROM DHHS (NIOSH) PUBLICATION NO.90-118) (FP N).
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecological Information:

**** SECTION 13 - OTHER PRECAUTIONS ****

Other Precautions:

Work/Hygienic Practices:

**** SECTION 14 - TRANSPORT INFORMATION ****

Transportation Information:

None Listed

Label Information:

**** SECTION 15 - REGULATORY INFORMATION ****

Regulatory Information:

Proprietary: NO
Ingredient: ETHANOL, 2-BUTOXY-; (ETHYLENE GLYCOL MONOBUTYL ETHER)
Ingredient Sequence Number: 01
Percent: 1-3
NIOSH (RTECS) Number: KJ8575000
CAS Number: 111-76-2
OSHA PEL: 50 PPM, S
ACGIH TLV: 25 PPM, S

Proprietary: NO
Ingredient: AMMONIUM HYDROXIDE (CERCLA)
Ingredient Sequence Number: 02
Percent: 1-3
NIOSH (RTECS) Number: BQ9625000
CAS Number: 1336-21-6
OSHA PEL: 25 PPM (MFR)
ACGIH TLV: 35 PPM (MFR)

Proprietary: NO
Ingredient: WATER
Ingredient Sequence Number: 03
Percent: >90
NIOSH (RTECS.) Number: ZC0110000
CAS Number: 7732-18-5
OSHA PEL: N/K (FP N)
ACGIH TLV: NIK (FP N)

Proprietary: NO
Ingredient: ISOPROPYL ALCOHOL (SARA 313)
Ingredient Sequence Number: 04
Percent: 1-3
NIOSH (RTECS) Number: NT8050000
CAS Number: 67-63-0
OSHA PEL: 400 PPM
ACGIH TLV: 400 PPM;500 STEL

**** SECTION 16 - ADDITIONAL INFORMATION ****

Additional Information:

**** MATERIAL SAFETY DATA SHEET ****

Windex

SEC 1 - PRODUCT AND COMPANY INFO
SEC 2 - COMPOSITION INFORMATION
SEC 3 - HAZARDS IDENTIFICATION
SEC 4 - FIRST AID MEASURES
SEC 5 - FIRE FIGHTING MEASURES
SEC 6 - ACCIDENTAL RELEASE MEASURES
SEC 7 - HANDLING AND STORAGE
SEC 8 - EXPOSURE, PERS. PROTECTION
SEC 9 - PHYS, CHEM PROPERTIES
SEC 10 - STABILITY, REACTIVITY
SEC 11 - TOXICOLOGY INFORMATION
SEC 12 - ECOLOGICAL INFORMATION
SEC 13 - OTHER INFORMATION
SEC 14 - TRANSPORT INFORMATION
SEC 15 - REGULATORY INFORMATION
SEC 16 - ADDITIONAL INFORMATION

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Windex

Product CAS: (none)

Product Code:

Synonyms: Windex

Company Identification:

Name: S. C. JOHNSON WAX

Address:

Address:

City: RACINE, **State:** WI **Zip:** 53403-5635

For information, call: 414-631-2777

Emergency Number: 800-631-7145

Emergency Agency:

Number:

MSDS Creation Date: 7/1/93

Supersedes Date: 7/1/80

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

Chemical Name	CAS	MIN	MAX
Water	7732-18-5	90	90
Ammonium Hydroxide	1336-21-6	1	3
Ethanol	111-76-2	1	3
Isopropyl Alcohol	67-63-0	1	3

Lbs of VOC per Gallon Coating (minus water): 0.373

Coating Density (lbs/gal): 0

Solvent Density (lbs/gal): 0

Percent Solvent (volume): 0

Percent Solids (volume): 0

Percent Water (volume): 0

**** SECTION 3 - HAZARDS IDENTIFICATION ****

NFPA: Health: Fire: Reactivity: Other:

HMIS: Health: 1 **Fire:** 1 **Reactivity:** 1 **Special Protection:** X

POTENTIAL HEALTH EFFECTS

Target Organs:

Skin

Eye:

Sensation of irritation.

Skin:

Ingestion:

Inhalation:

Miscellaneous:

Animal studies clearly demonstrated dose-related adverse effects on the CNS, Hematopoietic tissues, blood, kidneys, and liver, associated w/administration of ethylene glycol monobutyul ether (EGBE).

**** SECTION 4 - FIRST AID MEASURES ****

Eye:

Flush with water for at least 15-20 minutes, if irritation persits, seek medical attention.

Skin:

Remove with soap and water.

Ingestion:

Drink large amount of water or milk. Seek medical aid.

Inhalation:

REmove to fresh air, support breathing

Notes to Physician:

**** SECTION 5 - FIRE FIGHTING MEASURES ****

Unusual Fire and Explosion Hazards:

No special hazards known.

Special Fire Fighting Procedures:

Use NIOSH/MSHA approved SCBA & Full protective equipment. Normal fire fighting procedures may be used.

Extinguishing Media:

Foam, co2, dry chemical, water fog

Flash Point:

>200F

Flammable Limits:

Lower Limit:

Upper Limit:

AutoIgnition Temperature:

General Information:

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

Disposal:

NO SPECIAL METH. OBSERVE ALL APPLIC FED/STATE REGS

Spills/Leaks:

CONTAINS AMMONIA. DO NOT LET SPILLED OR
LEAKING MATERIAL ENTER WATERCOURSE. MAY BE TOXIC TO AQUATIC LIFE.
ABSORB ON
OIL-DRI OR SIMILAR INERT MATERIAL. SWEEP OR SCRAPE UP & CONTAINERIZE.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Unplug electrical equipment before using product.

Storage:

Product residue may exist in empty containers.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Eyes:

ANSI approved chem. workers goggles.

Skin:

Imprevious gloves

Clothing:

Respirators:

NIOSH/MSHA approved respirator appropriate for exposure of concern. No
special requirements under normal use conditions.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Appearance/Odor:

Clear blue liquid w/ ammonia ordor

pH: SUPDAT

Vapor Pressure: 17.6 mmHg/70F

Vapor Density: 1.2

Evaporation Rate: 0.3 Butyl Acetate=1

Viscosity:

Boiling Point: 212F

Freezing/Melting Point:

Decomposition Temperature:

Solubility: Complete

Specific Gravity: .99

Molecular Formula:

Molecular Weight:

Miscellaneous:

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable

Conditions to Avoid:

None known

Incompatibilities with Other Materials:

None known

Hazardous Decomposition Products:

When exposed to fire, produces normal products of combustion.

Hazardous Polymerization:

No

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

Toxicological Information:

LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: NO
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYE CONTACT:SENSATTON OF IRRITATION.
ANIMAL STUDIES CLEARLY DEMONSTRATED DOSE-RELATED ADVERSE EFFECTS ON THE CNS, HEMATOPOIETIC TISSUES, BLOOD, KIDNEYS & LIVER, ASSOCIATED W/ADMINISTRATION OF ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE). (EXTRACTED FROM DHHS (NIOSH) PUBLICATION NO.90-118) (FP N).
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecological Information:

**** SECTION 13 - OTHER PRECAUTIONS ****

Other Precautions:

Work/Hygienic Practices:

**** SECTION 14 - TRANSPORT INFORMATION ****

Transportation Information:

None Listed

Label Information:

**** SECTION 15 - REGULATORY INFORMATION ****

Regulatory Information:

Proprietary: NO
Ingredient: ETHANOL, 2-BUTOXY-; (ETHYLENE GLYCOL MONOBUTYL ETHER)
Ingredient Sequence Number: 01
Percent: 1-3
NIOSH (RTECS) Number: KJ8575000
CAS Number: 111-76-2
OSHA PEL: 50 PPM, S
ACGIH TLV: 25 PPM, S

Proprietary: NO
Ingredient: AMMONIUM HYDROXIDE (CERCLA)
Ingredient Sequence Number: 02
Percent: 1-3
NIOSH (RTECS) Number: BQ9625000
CAS Number: 1336-21-6
OSHA PEL: 25 PPM (MFR)
ACGIH TLV: 35 PPM (MFR)

Proprietary: NO
Ingredient: WATER
Ingredient Sequence Number: 03
Percent: >90
NIOSH (RTECS.) Number: ZC0110000
CAS Number: 7732-18-5
OSHA PEL: N/K (FP N)
ACGIH TLV: NIK (FP N)

Proprietary: NO
Ingredient: ISOPROPYL ALCOHOL (SARA 313)
Ingredient Sequence Number: 04
Percent: 1-3
NIOSH (RTECS) Number: NT8050000
CAS Number: 67-63-0
OSHA PEL: 400 PPM
ACGIH TLV: 400 PPM;500 STEL

**** SECTION 16 - ADDITIONAL INFORMATION ****

Additional Information:

PROFESSIONAL VANISH MILDEW STAIN CLEANER

National Fire Protection Association (NFPA)

Hazardous Material Information System (HMIS)

Health	2
Fire Hazard	1
Reactivity	0

Protective Clothing

Emergency Overview Straw color. Liquid. See Section 9.
WARNING: CAUSES EYE IRRITATION. May be mildly irritating to skin.

Section 1. Chemical Product and Company Identification

Product Name	**PROFESSIONAL VANISH MILDEW STAIN CLEANER**
Product Use	Industrial/Institutional: Washroom care.
MSDS#	126095001

U.S. Headquarters
Drackett Professional
A Division of
S.C. Johnson Commercial Markets, Inc.
8310 16th Street
Sturtevant, Wisconsin 53177-0902
Phone: (888) 352-2249

Code	90156
PMS#	433230
Validation Date	6/26/2003
Print Date	6/26/2003
Supersedes	No Previous Validation
In Case of Emergency	(800) 851-7145

Section 2. Composition and Information on Ingredients

Ingredients	CAS #	% by Weight	Exposure Limits	LC50/LD50
Sodium Hydroxide	1310-73-2	1-5	**OSHA (United States).** CEIL: 2 mg/m^3 **ACGIH (United States).** STEL: 2 mg/m^3	Not available.
Sodium Hypochlorite	7681-52-9	1-5	Not available.	Not available.
Tert-butyl Alcohol	75-65-0	1-5	**OSHA (United States).** TWA: 300 mg/m^3 **ACGIH (United States).** TWA: 303 mg/m^3	ORAL (LD50): Acute: 3500 mg/kg [Rat].
Water	7732-18-5	60-100	Not available.	Not available.

Section 3. Hazards Identification

Routes of Entry Inhalation. Skin contact. Eye contact.

Potential Acute Health Effects

Eyes May be moderately irritating to eyes.

Skin May be mildly irritating to skin.

Inhalation May be irritating to nose, throat, and respiratory tract.

Ingestion May cause abdominal discomfort, nausea, vomiting and diarrhea.

Medical Conditions Aggravated by Overexposure: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

See Toxicological Information (section 11)

Continued on Next Page

PROFESSIONAL VANISH MILDEW STAIN CLEANER

Section 4. First Aid Measures

Eye Contact	Flush immediately with plenty of water. If irritation persists, get medical attention.
Skin Contact	Flush immediately with plenty of water. Get medical attention if irritation occurs.
Inhalation	If breathing is difficult: Remove to fresh air. Get medical attention immediately.
Ingestion	Immediately drink plenty of water. If discomfort persists, get medical attention.

Section 5. Fire Fighting Measures

Flammability of the Product	None known.
Flash Points	CLOSED CUP: >103°C (217.4°F).
Products of Combustion	None known.
Fire Fighting Media and Instructions	Extinguish with water spray or carbon dioxide, dry chemical powder or appropriate foam. Normal fire fighting procedure may be used.
Special Remarks on Fire and Explosion Hazards	None known.

Section 6. Accidental Release Measures

Personal Precautions	Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions and Clean-up Methods	In the event of major spillage: Use appropriate containment to avoid environmental contamination. Sweep or scrape up material. Place in suitable clean, dry containers for disposal by approved methods. Use a water rinse for final clean-up.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage	Store in a dry, cool and well-ventilated area. Protect from freezing. KEEP OUT OF REACH OF CHILDREN.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.
Personal Protection	
Eyes	Safety glasses recommended.
Hands	For prolonged or repeated contact with skin: Rubber gloves.
Respiratory	No special requirements under normal use conditions.
Feet	No special requirements under normal use conditions.
Body	No special protective clothing is required.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.
Odor	Bleach.
Color	Straw color.
pH	12.8 [Basic.]
Specific Gravity	1
Evaporation Rate	<1
Solubility in water	Complete.

Continued on Next Page

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	None known.
Incompatibility with Various Substances	Avoid mixing with: acids , Ammonia. Do not mix with any other chemicals or products unless specified by label.
Hazardous Decomposition Products	When exposed to fire: Produces normal products of combustion.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Acute toxicity	ORAL (LD50) Estimated to be greater than 5000 mg/kg (rat). DERMAL (LD50) Between 2000 - 20000 mg/kg (rat).
Effects of Chronic Exposure	None known.
Other Toxic Effects	Not available.

Section 12. Ecological Information

Not available.

Section 13. Disposal Considerations

Waste Information	No special precautions. Dispose of according to all federal, state and local regulations.

Section 14. Transport Information

DOT Classification

DOT Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.

TDG Classification

TDG Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.

Section 15. Regulatory Information

Reporting in this section is based on ingredients disclosed in Section 2

US Regulations

Federal SARA 313 toxic chemical notification and release reporting: Tert-butyl Alcohol
Clean Water Act (CWA) 311: Sodium hydroxide, Sodium Hypochlorite
CERCLA: Hazardous substances.: Sodium hydroxide, Sodium Hypochlorite, Tert-butyl Alcohol

State New Jersey spill list: Sodium hydroxide, Sodium Hypochlorite, Tert-butyl Alcohol
New Jersey: Sodium hydroxide, Sodium Hypochlorite, Tert-butyl Alcohol
Massachusetts spill list: Sodium hydroxide, Sodium Hypochlorite, Tert-butyl Alcohol
Massachusetts RTK: Sodium hydroxide, Sodium Hypochlorite, Tert-butyl Alcohol
Pennsylvania RTK: Sodium hydroxide, Sodium Hypochlorite, Tert-butyl Alcohol

This product is not subject to the reporting requirements under California's Proposition 65.

Registered Product Information Not applicable.

Canadian Regulations

WHMIS Classification Not applicable.

WHMIS Icon

Registered Product Information Not applicable.

Chemical Inventory Status All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory

Continued on Next Page

PROFESSIONAL VANISH MILDEW STAIN CLEANER

Section 16. Other Information

Other Special Considerations	Not available.
Version	1.01

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JohnsonDiversey

INSTITUTIONAL FORMULA DRANO

HMIS		NFPA	Personal protective equipment
Health	3	3	
Fire Hazard	0	0	
Reactivity	0	0	

Version Number: 3 *Preparation date: 2007-05-17*

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: INSTITUTIONAL FORMULA DRANO

MSDS #: 126061002
Product code: 90485
Recommended use: Cleaning product.

Manufacturer, importer, supplier:

Consumer Branded Professional Products
JohnsonDiversey, Inc.
8310 16th Street
Sturtevant, Wisconsin 53177-0902
Phone: (888) 352-2249

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER. CORROSIVE. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED. NEVER USE OR MIX WITH ACIDS, AMMONIA OR ANY OTHER CHEMICAL.

Principle routes of exposure: Skin contact. Eye contact. Inhalation. Ingestion.
Eye contact: Corrosive. Causes permanent eye damage, including blindness.
Skin contact: Corrosive. May cause permanent damage.
Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.
Ingestion: Corrosive. Causes burns to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Sodium hydroxide	1310-73-2	30 - 40%	=140 mg/kg	=1350 mg/kg	Not available

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.
Skin contact: Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation: If breathing is affected, remove to fresh air. Get medical attention immediately.
Ingestion: DO NOT induce vomiting. If able to swallow, offer sips of water or milk. GET MEDICAL ATTENTION IMMEDIATELY. Never give anything by mouth to an unconscious person.
Notes to physician: Probable mucosal damage may contraindicate the use of gastric lavage.
Aggravated Medical Conditions: None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable. Dry chemical, water spray, foam, carbon dioxide.
Specific hazards: None known.
Unusual hazards: Corrosive material (See sections 8 and 10).
Specific methods: No special methods required.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Extinguishing media which must not be used for safety reasons: None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Put on appropriate personal protective equipment (see Section 8.).
Environmental precautions and clean-up methods: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling:
Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing and footwear before re-use. Do not taste or swallow. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. Do not mix with any other product or chemical . FOR COMMERCIAL AND INDUSTRIAL USE ONLY. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage:
Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:
General room ventilation is adequate. Respiratory protection is not required if good ventilation is maintained.

Personal Protective Equipment

Eye protection: Chemical-splash goggles.
Hand protection: Chemical-resistant gloves includes rubber gloves neoprene gloves
Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear.
Respiratory protection: No special requirements under normal use conditions. In case of insufficient ventilation wear suitable respiratory equipment.
Hygiene measures: Avoid contact with skin, eyes and clothing . Handle in accordance with good industrial hygiene and safety practice.

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Sodium hydroxide	1310-73-2	2 mg/m^3 (Ceiling)	2 mg/m^3 (TWA)	2 mg/m^3 (Ceiling)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	**Bulk density:**	No information available
pH:	>13	**Dilution pH:**	No information available.
Appearance:	Liquid	**Vapor density:**	No information available
Color:	Straw	**Evaporation Rate**	No information available
Odor:	Ammoniacal	**Boiling point/range:**	Not determined
Specific gravity:	1.35	**Melting point/range:**	Not determined
Density:	11.27 lbs/gal	**Decomposition temperature:**	Not determined
VOC:	0.0% *	**Autoignition temperature:**	No information available
Flash point:	>200°F >93.3°C	**Partition coefficient (n-octanol/water):**	No information available
Solubility:	Soluble	**Solubility in other solvents:**	No information available
Viscosity:	No information available	**Elemental Phosphorus:**	0 %P

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Stability: The product is stable
Polymerization: Hazardous polymerization does not occur
Hazardous decomposition products: None reasonably foreseeable..
Materials to avoid: Acids. Oxidising agents. Do not mix with any other product or chemical.
Conditions to avoid: Do not mix with any other product or chemical .

11. TOXICOLOGICAL INFORMATION

Acute toxicity Corrosive
Component Information: See Section 3

Chronic toxicity: None known

Specific effects

Carcinogenic effects: None known
Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: None known

12. ECOLOGICAL INFORMATION

Environmental Information: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Undiluted product is regulated under environmental and transportation laws as a corrosive waste. Dispose of according to all federal, state and local applicable regulations .

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories
All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

U.S. Regulations
California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Water	7732-18-5	-	-	-	-
Sodium hydroxide	1310-73-2	X	X	X	X

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sodium hydroxide	1310-73-2	30 - 40%	1000		

SARA 311/312 Hazard Categories

Immediate:	X
Delayed:	-
Fire:	-
Reactivity:	-
Sudden Release of Pressure:	-

Canada
WHMIS hazard class: E Corrosive material .

16. OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC
Additional advice: None

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

JohnsonDiversey
Clean is just the beginning

CARPET SCIENCE Détachant

HMIS		NFPA	Protection individuelle
Santé	1	1	None / Aucune / Ninguno
Risque d'incendie	1	1	None / Aucune / Ninguno
Réactivité	0	0	

Numéro de révision: 1 *Date de révision: 2007-06-08*

1. IDENTIFICATION DE LA SUBSTANCE/PREPARATION ET DE LA SOCIETE/ENTREPRISE

Nom du produit: CARPET SCIENCE Détachant

MSDS #: 126097001
Code du produit: 94350
Utilisation recommandée: Industriel/Institutionnel. Soins des Moquettes .

Producteur, importateur, fournisseur:

US Headquarters
JohnsonDiversey, Inc.
8310 16th St.
Sturtevant, Wisconsin 53177-0902
Phone: 1-888-352-2249
MSDS Internet Address:
www.johnsondiversey.com

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Téléphone en cas d'urgence: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. IDENTIFICATION DES DANGERS

Aperçu des premiers secours
ATTENTION. PEUT IRRITER MODÉRÉMENT LES YEUX. PEUT IRRITER MODÉRÉMENT LA PEAU . LIQUIDE ET VAPEUR COMBUSTIBLES.

Principales voies entree: Contact avec les yeux. Contact avec la peau. Inhalation.
Contact avec les yeux: Peut irriter modérément les yeux.
Contact avec la peau: Peut irriter modérément la peau.
Inhalation: Aucun à notre connaissance.
Ingestion: Aucun à notre connaissance.

3. COMPOSITION/INFORMATION SUR LES COMPOSANTS

Composants Dangereux

Composant(s)	CAS #	% en poids	DL50 Orale	DL50 Cutanée	CL50 Inhalatoire
Alcool isopropylique	67-63-0	1 - 5%	=4396 mg/kg	=12800 mg/kg	=72.6 mg/L (4 h)

4. PREMIERS SOINS

Contact avec les yeux: Rincer immédiatement à grande eau . Si une irritation apparaît, consulter un médecin.
Contact avec la peau: Rincer immédiatement à grande eau . Si une irritation apparaît, consulter un médecin..
Inhalation: Les premiers secours ne sont pas nécessaires.
Ingestion: Les premiers secours ne sont pas nécessaires.
Conditions médicales aggravées: Aucun à notre connaissance.

5. MESURES DE LUTTE CONTRE L'INCENDIE

Moyen d'extinction approprié: Poudre, eau pulvérisée, mousse, dioxide de carbone.
Dangers spécifiques: Alors que ce produit possede un point d'eclair inferieur a 200 Deg. F, il constitue une solution aqueuse a base d'alcool qui ne soutient pas la combustion .
Risques Inhabituels Aucun à notre connaissance
Méthodes particulières d'intervention: Aucune méthodes spéciale n'est requise .

Equipements spéciaux pour la protection des intervenants: Comme pour tout incendie, porter un respirateur à air comprimé, MSHA/NIOSH (approuvé ou équivalent), ainsi qu'une combinaison complète de protection
Moyen d'extinction à ne pas utiliser pour des raisons de sécurité: Pas d'information disponible

6. MESURES A PRENDRE EN CAS DE DÉVERSEMENT ACCIDENTEL

Précautions individuelles: Revêtir un équipement de protection individuelle approprié (voir Section 8).

6. MESURES A PRENDRE EN CAS DE DÉVERSEMENT ACCIDENTEL

Méthodes de nettoyage: Utiliser un récipient approprié pour éviter toute contamination du milieu ambiant. Absorber l'écoulement avec un matériau inerte (p.e.sable sec ou terre), puis mettre dans un conteneur pour déchets chimiques.

7. MANIPULATION ET STOCKAGE

Manipulation:
Éviter le contact avec la peau et les yeux. LIQUIDE ET VAPEUR COMBUSTIBLES . Tenir à l'abri des flammes nues, des surfaces chaudes et des sources d'inflammation. Utiliser seulement dans des zones bien ventilées. POUR UTILISATOIN COMMERCIALE ET INDUSTRIELLE SEULEMENT
Stockage:
Protéger du gel . Conserver hermétiquement fermé dans un endroit sec, frais et bien ventilé. GARDER HORS DE LA PORTÉE DES ENFANTS.

8. MESURES DE CONTRÔLE DE L'EXPOSITION/PROTECTION INDIVIDUELLE

Mesures d'ordre technique:
Aucune ventilation particulière requise. Ventilation adéquate du local.

Protection individuelle

Protection des yeux: Aucune condition particulière dans les conditions normales d'utilisation.
Protection des mains: Aucune condition particulière dans les conditions normales d'utilisation
Protection de la peau et du corps: Aucune condition particulière dans les conditions normales d'utilisation.
Protection respiratoire: Aucune condition particulière dans les conditions normales d'utilisation .
Mesures d'hygiène: A manipuler conformément aux normes d'hygiène industrielle et aux consignes de sécurité.

Composant(s)	CAS #	ACGIH	OSHA	Mexico
Alcool isopropylique	67-63-0	400 ppm (STEL) 200 ppm (TWA)	980 mg/m^3 (TWA) 400 ppm (TWA)	500 ppm (STEL) 1225 mg/m^3 (STEL) 400 ppm (TWA) 980 mg/m^3 (TWA)

9. PROPRIETES PHYSIQUES ET CHIMIQUES

État de la matière: liquide
pH: 7.5
Aspect: liquide
Couleur: opaque blanc cassé
Odeur: fruité
Densité: 1
Densité: 8.35 lbs/gal
Teneur (%) en COV (composés organiques volatils): 2.75% *
Point d'éclair: 129°F 54°C
Solubilité: soluble
Viscosité: Pas d'information disponible

Masse volumique apparente: Pas d'information disponible
pH de la solution diluée Pas d'information disponible.
Densité gazeuse: Pas d'information disponible
Vitesse d'évaporation Pas d'information disponible
Point/intervalle d'ébullition: 212°F 100°C
Point/intervalle de fusion: 30.2 °F-1 °C
Température de décomposition: indéterminé
Température d'auto-inflammation: Pas d'information disponible

Coefficient de partage (n-octanol/eau): Pas d'information disponible
Solubilité dans d'autres solvants: Pas d'information disponible
phosphore élémental : 0 %P

* - Titre 17, Code des règlements de la Californie, division 3, chapitre 1, sous-chapitre 8.5, article 2, Produits de consommation, sections 94508

10. STABILITÉ ET RÉACTIVITÉ

Stabilité: Le produit est stable.
polymérisation: Une polymérisation dangereuse ne se produit pas..
Produits de décomposition dangereux: Aucun raisonnablement prévisible.
Conditions à éviter: Ne pas congeler.

11. INFORMATIONS TOXICOLOGIQUES

Toxicité aiguë Oral(e) Estimée à un niveau supérieur à 5000 mg/kg; Cutanée Toxicité orale exprimée en DL50 > 2000 mg/kg
Information sur les composants: Voir la Section 3

Toxicité chronique: Aucun à notre connaissance

Effets spécifiques

effets cancérogènes: Aucun à notre connaissance
effets mutagènes: Aucun à notre connaissance
Toxicité pour la reproduction: Aucun à notre connaissance
Effets sur l'organe-cible: Aucun à notre connaissance

11. INFORMATIONS TOXICOLOGIQUES

Composants Dangereux

12. INFORMATIONS ÉCOLOGIQUES

Information environnementales donnée non disponible

13. CONSIDERATIONS RELATIVES À L'ÉLIMINATION

Déchets des résidus / produits non utilisés:
Le produit non dilué est réglementée par les lois concernant l'environnement et le transport en tant que déchet allumable . Éliminer selon les dispositions prévues par les différentes réglementations fédérales, provinciales, locales ou d'État .

14. INFORMATIONS RELATIVES AU TRANSPORT

DOT/TDG: S' il vous plait, consulter le document d'expédition pour les renseignements à jour sur le transport

15. INFORMATIONS RÉGLEMENTAIRES

Inventaires internationales
Tous les éléments de ce produit sont énumérés dans les inventaires suivants: États-Unis (TSCA), Canada (DSL/NDSL).

Réglementation des É.-U.
Proposition 65 de la Californie: Ils n'y a pas des ingrédients qui sont assujettis à la déclaration en suivant 'Proposition 65' de Californie

LOI DU DROIT DE SAVOIR DE L'ÉTAT

Composant(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Eau	7732-18-5	-	-	-	-
Hexyloxyéthanol	112-25-4	-	-	X	-
Alcool isopropylique	67-63-0	X	X	X	X

CERCLA/ SARA

Composant(s)	CAS #	% en poids	CERCLA/SARA RQ (lbs)	Section 302, TPQ kg)	Section 313
Hexyloxyéthanol	112-25-4	1 - 5%			X
Alcool isopropylique	67-63-0	1 - 5%			X

Composant(s)	CAA HAP	CAA ODS	CWA Polluants en Priorité
Hexyloxyéthanol	X		

Catégories de risque en vertu de la loi SARA, section 311/312

Immédiat	-
Différée	-
Feu:	X
Réactivité	-
Décompression soudaine	-

Canada
Catégories de risque du SIMDUT : B3 liquides combustibles.

Composant(s)	CAS #	NPRI
Alcool isopropylique	67-63-0	X

16. AUTRES INFORMATIONS

Cause de la révision: Sans objet
Préparé par: NAPRAC
Conseils supplémentaires: aucune

Avis au lecteur: Ce document a etè prèparè de sources considèrèes techniquement sèrieuses. If ne constitue pas une garantie, ènoncèe ou tacite, de l'exactitude des renseignements ci-incluses. Les conditions actuelles d'usage et de manutention sont hors du contrôle du vendeur. L'utilisateur doit s'assurer qu'il posè'de toutes les donnèes en cours, en regard de son utilization particulière et qu'il respecte tous les règlements fèdèraux, des ètats, provinciaux et municipaux.

PLEDGE® FURNITURE POLISH - COUNTRY GARDEN®

Date Issued: 16Dec2002 **Supersedes: 05Mar1999**

US MANUFACTURER:
S.C. Johnson & Son, Inc.
Phone: (800) 725-6737
Racine, Wisconsin 53403-2236
Emergency Phone: (888) 779-7920
International Emergency Phone:
(262) 886-1480

CANADIAN MANUFACTURER:
S.C. Johnson and Son, Limited
Phone: (800) 725-6737
1 Webster Street
Brantford, Ontario N3T 5R1
Transportation Emergency:
CANUTEC (collect) (613) 996-6666
Poison Control: (888) 779-7920

HAZARD RATING	HMIS	HAZARD	NFPA
4-Very High	0	Health	0
3-High	4	Flammability	4
2-Moderate	0	Reactivity	0
1-Slight		Special	
0-Insignificant			

DISTRIBUTED IN CANADA BY:
S.C. Johnson and Son, Limited
Phone: (800) 725-6737
1 Webster Street
Brantford, Ontario N3T 5R1

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME..... PLEDGE® FURNITURE POLISH - COUNTRY GARDEN®
PRODUCT USE..... Furniture care

UPC	SCJ CODE	QUANTITY	US SIZE	CANADIAN SIZE
62300 00385	385	12		200 GM
62300 00387	387	12		350 GM

SECTION 2 - INGREDIENT INFORMATION

INGREDIENT	WEIGHT%	EXPOSURE LIMIT/TOXICITY
Butane (CAS# 106-97-8).....	1-5	800 ppm ACGIH/OSHA TWA
Isobutane (CAS# 75-28-5).....	1-5	NOT ESTABLISHED
Propane (CAS# 74-98-6).....	1-5	1000 ppm OSHA PEL , 2500 ppm ACGIH TWA
Silicone fluid (CAS# 63148-62-9).....	3-7	NOT ESTABLISHED LD50: >10,000 mg/kg (oral-rat) LC50: >535 mg/l (inhalation-rat)
Water (CAS# 7732-18-5).....	65-80	NOT ESTABLISHED

SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11)

ROUTE(S) OF ENTRY..... Skin contact. Ingestion.
EFFECTS OF ACUTE EXPOSURE:
EYE..... May cause: Sensation of irritation.
SKIN..... None known.
INHALATION..... None known.
INGESTION..... Aspiration into the lungs may cause severe health effects.
MEDICAL CONDITIONS..... None known.
GENERALLY RECOGNIZED
AS BEING AGGRAVATED
BY EXPOSURE

SECTION 4 - FIRST AID MEASURES

EYE CONTACT..... Rinse with plenty of water.

PLEDGE® FURNITURE POLISH - COUNTRY GARDEN®

Date Issued: 16Dec2002 **Supersedes: 05Mar1999**

SECTION 4 - FIRST AID MEASURES (continued)

SKIN CONTACT	Wash contaminated area with water and soap.
INHALATION	Remove to fresh air.
INGESTION	Immediately drink 1-2 glasses of water or milk. Seek immediate medical attention.

SECTION 5 - FIRE AND EXPLOSION INFORMATION

FLASH POINT	< 20°F (< -7°C) (TCC) (propellant)
FLAMMABLE LIMITS	Not applicable.
AUTOIGNITION TEMPERATURE	Not applicable.
EXTINGUISHING MEDIA	Foam. CO2. Dry chemical. Water fog.
SPECIAL FIREFIGHTING PROCEDURES	Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Fire fighters should wear self-contained breathing apparatus and protective clothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Aerosol product - Containers may rocket or explode in heat of fire.

SECTION 6 - PREVENTIVE RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Eliminate all ignition sources. Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONARY INFORMATION	CAUTION: FLAMMABLE: Contains: petroleum distillate. CONTENTS UNDER PRESSURE. Do not use near open fire, flames or heat. Do not puncture or incinerate. Do not store at temperatures above 120 °F (50 °C). Do not spray or use on floors. Keep out of reach of children.
OTHER HANDLING AND STORAGE CONDITIONS	Store in a cool, dry place with adequate ventilation. Keep from freezing.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	No special requirements under normal use conditions.
VENTILATION	No special requirements.
PROTECTIVE GLOVES	No special requirements under normal use conditions.
EYE PROTECTION	No special requirements under normal use conditions.
OTHER PROTECTIVE MEASURES	No special requirements.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

COLOR	Opaque
PRODUCT STATE	Dispensed as a spray mist.
ODOR	Floral
pH	Not applicable.
ODOR THRESHOLD	Not available.
SOLUBILITY IN WATER	Dispersible
SPECIFIC GRAVITY (H2O=1)	0.828
VAPOR DENSITY (AIR=1)	Not available.

PLEDGE® FURNITURE POLISH - COUNTRY GARDEN®

Date Issued: 16Dec2002 **Supersedes: 05Mar1999**

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (continued)

EVAPORATION RATE (BUTYL ACETATE=1)	Not available.
VAPOR PRESSURE (mm HG).	Not available.
BOILING POINT.....	Not applicable.
FREEZING POINT.....	Not applicable.
COEFFICIENT OF WATER/OIL.....	Not available.
PERCENT VOLATILE BY VOLUME (%)....	Not available.
VOLATILE ORGANIC COMPOUND (VOC).....	Not available.
THEORETICAL VOC (LB/GAL).....	Not available.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY.....	Stable
STABILITY - CONDITIONS TO AVOID.	None known.
INCOMPATIBILITY.....	No special requirements.
HAZARDOUS DECOMPOSITION PRODUCTS	When exposed to fire: Produces normal products of combustion.
HAZARDOUS POLYMERIZATION.....	Will not occur.
HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID.....	Not applicable.

SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3)

LD50 (ACUTE ORAL TOX)..	Greater than 5000 mg/kg (rats)
LD50 (ACUTE DERMAL TOX)	Not applicable.
LC50 (ACUTE INHALATION TOX).	Not applicable.
EFFECTS OF CHRONIC EXPOSURE.....	None known.
SENSITIZATION.....	None known.
CARCINOGENICITY.....	None known.
REPRODUCTIVE TOXICITY..	None known.
TERATOGENICITY.....	None known.
MUTAGENICITY.....	None known.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA.....	Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INFORMATION.....	If possible, recycle empty aerosol can to nearest steel recycling center. Use up package or give to someone who can.

PLEDGE® FURNITURE POLISH - COUNTRY GARDEN®

Date Issued: 16Dec2002 **Supersedes: 05Mar1999**

SECTION 14 - TRANSPORTATION INFORMATION

US DOT INFORMATION.....	N.O.I. Buffing or polishing compounds Consumer commodity ORM-D
CANADIAN SHIPPING NAME.	PLEDGE® FURNITURE POLISH - COUNTRY GARDEN®
TDG CLASSIFICATION.....	Not applicable.
PIN/NIP.....	Not applicable.
PACKING GROUP.....	Not applicable.
EXEMPTION NAME.....	Consumer commodity

SECTION 15 - REGULATORY INFORMATION

WHMIS CLASSIFICATION...	Non-regulated.

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

This product is not subject to the reporting requirements under California's Proposition 65.

SECTION 16 - OTHER INFORMATION

ADDITIONAL INFORMATION.	NFPA 30B Level 1 Aerosol.
EPA REGISTRATION #.....	Not applicable.

PREPARATION INFORMATION

PREPARED BY.....	Manufacturer's Technical Support Department. Refer to page 1 (Manufacturer) for contact information.

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PRINT DATE: 20Jan2003

ORDER #: 90344 CUSTOMER #: 33777-01 SEALY COMPONENTS GROUP

SCHNAIBLE-LAFAYETTE

MATERIAL SAFETY DATA SHEET U.S. DEPARTMENT OF LABOR
COMPLIES WITH USDL SAFETY AND HEALTH REGULATIONS, (29 CFR 1910.1200)

****

MANUFACTURER	PRODUCT IDENTIFICATION	
SAALFELD PAPER (JANITOR) 3500 LANGLEY DRIVE HEBRON KY 410481234	BLEACH HOUSEHOLD 1620	6 GAL/CS

PAGE 1 SECTION I: PRODUCT# 1620
PRODUCT IDENTIFICATION

ONLINE PACKAGING, INC
124 TRIQUAD DR.
MICHIGAN CITY, IN

EMERGENCY PROCEDURE:
CALL YOUR LOCAL POISON CONTROL CENTER.
CHEMICAL LEAK/SPILL EMERGENCY: CHEMTREC
1-800-424-9300 24 HR

NAME OF PERSON TO BE CONTACTED DATE: 02/09/07
DONALD J STEIN, PRESIDENT
SCHNAIBLE SERVICE & SUPPLY CO.,INC
1-765-742-0280

PRODUCT NAME: SO WHITE BLEACH AND DISINFECTANT
SHIPPING DESCRIPTION: SODIUM HYPOCHLORITE

HMIS RATINGS: HEALTH: 3
FLAMMABILITY: 0
REACTIVITY: 1
PERSONAL PROTECTION: YES

SECTION II: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NOT ESTABLISHED (OSHA 29 CFR 1910.Z-1-A)
NOT ESTABLISHED (ACGIH 1988-89) - RECOMMENDED EXPOSURE LIMIT FOR CHLORINE BE USED AS A GUIDE: 0.5 PPM (OSHA 29 CFR 1910.Z-1-A): C 1 PPM (AACGIH).
EFFECTS OF OVER EXPOSURE: EYE CONTACT CORROSIVE-CAUSES SEVERE BURNS AND DESTRUCTION OF TISSUES. SKIN CONTACT: CORROSIVE TO SKIN. INHALATION: MISTS WILL BURN MUCOUS MEMBRANES. INGESTION: INGESTION CAN CAUSE VERY SERIOUS DAMAGE TO THE MOUTH, ESOPHOGUS, STOMACH AND OTHER TISSUES WITH WHICH CONTACT IS MADE AND MAY BE FATAL.
EMERGENCY FIRST AID PROCEDURES: EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSCIAN IMMEDIATELY. SKIN CONTACT: FLUSH AREA WITH WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INGESTION: IF CONSCIOUS, DRINK A QUART OF WATER. DO NOT INDUCE VOMITING. CALL A PHYSCIAN IMMEDIATELY. IF UNCONSCIOUS OR IN CONVULSIONS, TAKE IMMEDIATELY TO A HOSPITAL OR PHYSCIAN. INHALATION: REMOVE VICTIM TO FRESH AIR, IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSCIAN. NOTE: THIS PRODUCT DOES NOT CONTAIN GREATER THAN 0.1% OF THE KNOWN OR POTENTIAL CARCINOGENS LISTED IN NTP, IRAC OR OSHA.

SECTION III: HAZARDOUS INGREDIENTS

TLV LEVEL- *0.5 PPM
PEL LEVEL- *0.5 PPM
NOTE: EXPOSURE LIMITS FOR CHLORINE GIVEN.

SECTION IV: SPECIAL PROTECTION AND PRECAUTION

RESPIRATORY PROTECTION: IF VAPORS OR MISTS ARE PRESENT, WEAR NIOSH APPROVED RESPIRATOR.
VINTILATION: MAINTAIN ADEQUATE VENTILATION. DO NOT USE IN CLOSED OR CONFINED SPACE. AVOID MIST FORMATION.
PROTECTIVE GLOVES: RUBBER (LATEX). POLYVINYL CHLORIDE. NEOPRENE.
EYE PROTECTION: CHEMICAL SAFETY GOGGLES. SAFETY GLASSES. FACE SHIELD. DO NOT WEAR CONTACT LENSES.

OTHER PROTECTIVE EQUIPMENT: EYE- WASH STATION. SAFETY SHOWER. RUBBER APRON. CHEMICAL SAFETY SHOES. PROTECTIVE CLOTHING.
PRECAUTION FOR HANDLING AND STORING: CORROSIVE MATERIAL. STORE IN COOL, WELL-VENTILATED AREA AWAY FROM ALL SOURCES OF IGNITION AND OUT OF DIRECT SUNLIGHT.

SECTION V: TRANSPORTATION AND REGULATORY DATA

CONTAINERS OF ONE GALLON OR LESS- DOT PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D.
CONTAINERS OVER ONE GALLON- DOT PROPER SHIPPING NAME: HYPOCHLORITE SOLUTION, 8, UN1791,PG III, RQ DOT LABEL- CORROSIVE. US CLEAN WATER ACT REPORTABLE QUANTITY RQ 100 LBS. (45.4 KILOS)

SECTION VI: SPILL OR LEAK PROCEDURES

ACTIONS TO BE TAKEN: CORROSIVE MATERIAL: EVACUATE UNPROTECTED PERSONNEL FROM AREA. MAINTAIN ADEQUATE VENTILATION. USE PROPER SAFETY EQUIPMENT. CONTAIN SPILL, PLACE INTO DRUMS FOR PROPER DISPOSAL. FLUSH REMAINING AREA WITH WATER TO REMOVE TRACE RESIDUE AND DISPOSE OF PROPERLY. AVOID DIRECT DISCHARGE TO SEWERS AND SURFACE WATERS. NOTIFY AUTHORITIES IF ENTRY OCCURS.
WASTE DISPOSAL METHOD: OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS. IF APPROVED, FLUSH TO SEWER WITH LARGE QUANTITIES OF WATER. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE EMPTY CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION.

SECTION VII: REACTIVITY DATA

STABILITY: UNSTABLE CONDITIONS TO AVOID: AVOID TEMPERATURES ABOVE 70F.
INCOMPATIBILITY: AMMONIA. ORGANIC MATERIALS. ACIDS. REACTS WITH ACIDS TO RELEASE POISONOUS CHLORINE GAS.
HAZARDOUS DECOMPOSITION PRODUCTS: CHLORINE- CONTAINING GASSES CAN BE PRODUCED
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION VIII: FIRE AND EXPLOSION DATA

FLASH POINT- NONE. FLAMMABLE LIMITS LEL: N.A., UEL: N.A.
EXTINGUISHING MEDIA: FOR FIRES IN AREA USE APPROPRIATEA MEDIA. EXAMPLES: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL FOAM.
SPECIAL PROCEDURES: EVACUATE AREA OF UNPROTECTED PERSONNEL. WEAR PROTECTIVE CLOTHING INCLUDING A NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL THE EXPOSED CONTAINERS WITH WATER SPRAY.
UNUSUAL HAZARDS: CHLORINE CONTAINING GASES CAN BE PRODUCED.

SECTION IX: PHYSICAL DATA

PH: APPROXIMATELY 12.0
BOILING POINT: (DEG F): NOT ESTABLISHED
FREEZING POINT: (DEG F): 21
VAPOR PRESSURE: (MM HG): NOT ESTABLISHED
SOLUBILITY IN WATER: COMPLETE
SPECIFIC GRAVITY: 1.080
% VOLATILE BY VOLUME: 100%
EVAPORATION RATE (N.A.): N.A.
APPEARANCE AND ODOR: CLEAR, YELLOW LIQUID, CHLORINE ODOR.

The Valspar Corporation
Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID: **011.0002400**
Product Name: GOOF OFF
Product Use: Paint product.
Print date 31/Jan/2007
Revision Date 31/Aug/2005

Company Identification
The Valspar Corporation - Architectural Coatings Division
1191 Wheeling Road
Wheeling, IL 60090
Manufacturer's Phone: 1-847-520-8580

24-Hour Medical Emergency Phone: 1-888-345-5732

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
XYLENE 1330-20-7	75 - 80	Xylenes (o-, m-, p- isomers)
ETHYLBENZENE 100-41-4	15 - 20	Ethyl benzene
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	1 - 5	Diethylene glycol monomethyl ether
TOLUENE 108-88-3	1 - 5	Toluene

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

Emergency Overview:
This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

Inhalation Effects:
Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation.

Eye Contact:
Corneal Injury/eye damage.

Skin Contact:
May cause moderate skin irritation.

Acute Ingestion:
None known

Other Effects:
May cause central nervous system depression. May cause liver damage. May cause kidney damage.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Possible birth defects hazard. Contains ingredients which may cause birth defects based on animal data. May cause kidney damage. May cause liver damage.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES

Inhalation:
If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:
In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact:
In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:
If swallowed , do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately. If swallowed, get medical attention immediately.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	80º F (27º C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	7 %
Autoignition temperature:	Not available. º F (º C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:
None known.

Extinguishing media:
Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:
Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:
Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:
Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:
Appropriate chemical resistant gloves should be worn.To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:
If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation
Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
XYLENE 1330-20-7	75 - 80	435 mg/m³ 100 ppm		
ETHYLBENZENE 100-41-4	15 - 20	435 mg/m³ 100 ppm		
TOLUENE 108-88-3	1 - 5	200 ppm	300 ppm	

ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations

XYLENE 1330-20-7	75 - 80	100 ppm	150 ppm		
ETHYLBENZENE 100-41-4	15 - 20	100 ppm	125 ppm		
TOLUENE 108-88-3	1 - 5	50 ppm			Can be absorbed through the skin.

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	28 mmHG @ 68º F (20º C)
Vapor density (air = 1.0):	4.1
Boiling point:	230º F (110º C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	7.29
Specific Gravity	.87
Evaporation rate (butyl acetate = 1.0):	2

10. STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizers.
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Mutagens:

Common Name CAS-No.	Approx. Weight %	California Prop 65 - Developmental Toxicity	California Prop 65 - Reproductive (Male)
TOLUENE 108-88-3	1 - 5	Listed: January 1, 1991 Developmental toxin.	

Teratogens:

Carcinogens:
Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
ETHYLBENZENE 100-41-4	15 - 20			Monograph 77, 2000

Common Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
ETHYLBENZENE 100-41-4	15 - 20			male rat-clear evidence; female rat-some evidence; male mice-some evidence; female mice-some evidence

Common Name CAS-No.	Approx. Weight %	OSHA Select Carcinogens	OSHA Possible Select Carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	15 - 20			Group A3 Confirmed animal carcinogen with unknown relevance to humans.

If this section is blank, no information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

Proper Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

International Air Transport Association:

Proper Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

International Maritime Organization:

Proper Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
Non-Bulk UN ID Number: UN1263
Packing Group: III

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

15. REGULATORY INFORMATION

Common Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
XYLENE 1330-20-7	75 - 80		form R reporting required for 1.0% de minimis concentration	100
ETHYLBENZENE 100-41-4	15 - 20		form R reporting required for 1.0% de minimis concentration	1000
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	1 - 5		YES	
TOLUENE 108-88-3	1 - 5		form R reporting required for 1.0% de minimis concentration	1000

SARA 311/312 Hazard Class:

Acute:	Yes
Chronic:	Yes
Flammability:	Yes
Reactivity:	No
Sudden Pressure:	No

U.S. STATE REGULATIONS:

Pennsylvania Right To Know:

ETHYLBENZENE	100-41-4
TOLUENE	108-88-3
DIETHYLENE GLYCOL MONOMETHYL ETHER	111-77-3
XYLENE	1330-20-7

California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Rule 66 status of product Photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory: All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List: All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health:	2
Flammability:	3
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:
OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:
The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

The Valspar Corporation
Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID:	**011.0002417.004**
Product Name:	CAN GOOF OFF 16 OZ 12P
Product Use:	Paint product.
Effective date:	12/Oct/2005
Revision Date	31/Aug/2005
UN ID Number:	UN1263
WHMIS Classification:	D2B Toxic Material D2A Very Toxic Material B2 Flammable Liquids

Company Identification

1191 Wheeling Road
Wheeling, IL 60090
Tech Info Phone: 847-520-8580

24-Hour Medical Emergency Phone: 1-888-345-5732

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical Name	CAS Number	Trade Secret Number
XYLENE 1330-20-7	75 - 80	Xylenes (o-, m-, p-isomers)	1330-20-7	
ETHYLBENZENE 100-41-4	15 - 20	Ethyl benzene	100-41-4	
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	1 - 5	Diethylene glycol monomethyl ether	111-77-3	
TOLUENE 108-88-3	1 - 5	Toluene	108-88-3	

If this section is blank there are no hazardous components per OHSA guidelines.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

Emergency Overview:
This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

Inhalation Effects:
Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation.

Eye Contact:
Corneal Injury/eye damage.

Skin Contact:
May cause moderate skin irritation.

Acute Ingestion:
None known

Other Effects:
May cause central nervous system depression. May cause liver damage. May cause kidney damage.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Possible birth defects hazard. Contains ingredients which may cause birth defects based on animal data. May cause kidney damage. May cause liver damage.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES

Inhalation:
If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:
In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact:
In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:
If swallowed , do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately. If swallowed, get medical attention immediately.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	80º F (27º C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	7 %
Autoignition temperature:	Not available. º F (º C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:
None known.

Extinguishing media:
Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:
Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:
Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:
Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:
Appropriate chemical resistant gloves should be worn.To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:
If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation
Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
XYLENE 1330-20-7	75 - 80	435 mg/m^3 100 ppm		
ETHYLBENZENE 100-41-4	15 - 20	435 mg/m^3 100 ppm		
TOLUENE 108-88-3	1 - 5	200 ppm	300 ppm	

ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
XYLENE 1330-20-7	75 - 80	100 ppm	150 ppm		
ETHYLBENZENE 100-41-4	15 - 20	100 ppm	125 ppm		
TOLUENE 108-88-3	1 - 5	50 ppm			Can be absorbed through the skin.

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Odor threshold:	Not available.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	28 mmHG @ 68º F (Not Available. º C)
Vapor density (air = 1.0):	4.1
Boiling point:	230º F (110º C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	7.29
Specific Gravity	.87
Evaporation rate (butyl acetate = 1.0):	2

10. STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizers.
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Common Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
XYLENE 1330-20-7	75 - 80	Inhalation LC50 Rat : 5000 ppm/4H Oral LD50 Rat : 4300 mg/kg Dermal LD50 Rabbit : >1700 mg/kg
ETHYLBENZENE 100-41-4	15 - 20	Oral LD50 Rat : 3500 mg/kg Dermal LD50 Rabbit : 17800 uL/kg
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	1 - 5	Oral LD50 Rat : 4 mL/kg Oral LD50 Mouse : 8222 mg/kg Dermal LD50 Rabbit : 2500 uL/kg
TOLUENE 108-88-3	1 - 5	Inhalation LC50 Rat : 49 gm/m^3/4H Inhalation LC50 Mouse : 400 ppm/24H Oral LD50 Rat : 636 mg/kg Dermal LD50 Rabbit : 14100 uL/kg

Mutagens:

Common Name CAS-No.	Approx. Weight %	Calif- Prop. 65. Developmental Toxicity	California Prop 65 - reproductive male
TOLUENE 108-88-3	1 - 5	Listed: January 1, 1991 Developmental toxin.	

Teratogens:

Carcinogens:
Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - limited human data	IARC Group 2b - sufficient animal data
ETHYLBENZENE 100-41-4	15 - 20			Monograph 77, 2000

Common Name CAS-No.	Approx. Weight %	NTP Known carcinogens	NTP Suspect carcinogens	NTP Evidence of carcinogenicity
ETHYLBENZENE 100-41-4	15 - 20			male rat-clear evidence; female rat-some evidence; male mice-some evidence; female mice-some evidence

Common Name CAS-No.	Approx. Weight %	OSHA Select carcinogens	OSHA Possible select carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	15 - 20			Group A3 Confirmed animal carcinogen with unknown relevance to humans.

If this section is blank, no information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

Canadian Transport of Dangerous Goods
Proper Shipping Name: PAINT
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

International Air Transport Association:
Proper Shipping Name: PAINT
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

International Maritime Organization:

Proper Shipping Name:	PAINT
Hazard Class:	3
UN ID Number:	UN1263
Packing Group:	III

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory: All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List: All components of this product are listed on the Domestic Substances List.

Canada National Pollutant Release Inventory:

Common Name CAS-No.	Approx. Weight %	NPRI Status
XYLENE 1330-20-7	75 - 80	[reporting required]
ETHYLBENZENE 100-41-4	15 - 20	[reporting required]
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	1 - 5	YES
TOLUENE 108-88-3	1 - 5	[reporting required]

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

HMIS Codes

Health:	2
Flammability:	3
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:
The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

Preparation Information:

Prepared By:	Regulatory Affairs Department
Print date	12/Oct/2005
Revision Date	31/Aug/2005

Technical Information:

The Valspar Corporation - Architectural Coatings Division
1191 Wheeling Road
Wheeling, IL 60090
Tech Info Phone: 847-520-8580

24-Hour Medical Emergency Phone: 1-888-345-5732

The Valspar Corporation
Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID:	**011.0002494**
Product Name:	GOOF OFF GAL
Product Use:	Paint product
Print date	12/Oct/2005
Revision Date	31/Aug/2005

Company Identification

The Valspar Corporation - Architectural Coatings Division
1191 Wheeling Road
Wheeling, IL 60090
Manufacturer's Phone: 1-847-520-8580

24-Hour Medical Emergency Phone: 1-888-345-5732

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
XYLENE 1330-20-7	75 - 80	Xylenes (o-, m-, p- isomers)
ETHYLBENZENE 100-41-4	15 - 20	Ethyl benzene
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	1 - 5	Diethylene glycol monomethyl ether
TOLUENE 108-88-3	1 - 5	Toluene

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

Emergency Overview:
This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

Inhalation Effects:
Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation.

Eye Contact:
Corneal Injury/eye damage.

Skin Contact:
May cause moderate skin irritation.

Acute Ingestion:
None known

Other Effects:
May cause central nervous system depression. May cause liver damage. May cause kidney damage.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Possible birth defects hazard. Contains ingredients which may cause birth defects based on animal data. May cause kidney damage. May cause liver damage.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES

Inhalation:
If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:
In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact:
In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:
If swallowed , do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately. If swallowed, get medical attention immediately.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	80° F (27° C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	7 %
Autoignition temperature:	Not available. ° F (° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:
None known.

Extinguishing media:
Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:
Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:
Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:
Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:
Appropriate chemical resistant gloves should be worn.To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:
If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation
Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
XYLENE 1330-20-7	75 - 80	435 mg/m^3 100 ppm		
ETHYLBENZENE 100-41-4	15 - 20	435 mg/m^3 100 ppm		
TOLUENE 108-88-3	1 - 5	200 ppm	300 ppm	

ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
XYLENE 1330-20-7	75 - 80	100 ppm	150 ppm		
ETHYLBENZENE 100-41-4	15 - 20	100 ppm	125 ppm		
TOLUENE 108-88-3	1 - 5	50 ppm			Can be absorbed through the skin.

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	28 mmHG @ 68° F (20° C)
Vapor density (air = 1.0):	4.1
Boiling point:	230° F (110° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	7.29
Specific Gravity	.87
Evaporation rate (butyl acetate = 1.0):	2

10. STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizers.
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Mutagens:

Common Name CAS-No.	Approx. Weight %	Calif- Prop. 65. Developmental Toxicity	California Prop 65 - reproductive male
TOLUENE 108-88-3	1 - 5	Listed: January 1, 1991 Developmental toxin.	

Teratogens:

Carcinogens:
Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - limited human data	IARC Group 2b - sufficient animal data
ETHYLBENZENE 100-41-4	15 - 20			Monograph 77, 2000

Common Name CAS-No.	Approx. Weight %	NTP Known carcinogens	NTP Suspect carcinogens	NTP Evidence of carcinogenicity
ETHYLBENZENE 100-41-4	15 - 20			male rat-clear evidence; female rat-some evidence; male mice-some evidence; female mice-some evidence

Common Name CAS-No.	Approx. Weight %	OSHA Select carcinogens	OSHA Possible select carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	15 - 20			Group A3 Confirmed animal carcinogen with unknown relevance to humans.

If this section is blank, no information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

Proper Shipping Name: PAINT
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

International Air Transport Association:

Proper Shipping Name: PAINT
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

International Maritime Organization:

Proper Shipping Name: PAINT
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

Common Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ IN LBS.
XYLENE 1330-20-7	75 - 80		form R reporting required for 1.0% de minimis concentration	100
ETHYLBENZENE 100-41-4	15 - 20		form R reporting required for 1.0% de minimis concentration	1000
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	1 - 5		YES	
TOLUENE 108-88-3	1 - 5		form R reporting required for 1.0% de minimis concentration	1000

SARA 311/312 Hazard Class:

Acute:	Yes
Chronic:	Yes
Flammability:	Yes
Reactivity:	No
Sudden Pressure:	No

U.S. STATE REGULATIONS:

Pennsylvania Right To Know:

ETHYLBENZENE	100-41-4
TOLUENE	108-88-3
DIETHYLENE GLYCOL MONOMETHYL ETHER	111-77-3
XYLENE	1330-20-7

California Proposition 65:
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Rule 66 status of product Photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory: All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List: All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health:	2
Flammability:	3
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:
OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:
The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

The Valspar Corporation
Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID:	**011.0002316.077**	
Product Name	GRAF RMVR 16OZ SPRAY	6U
Product Use:	Paint product.	
Print date	2005/04/14	
Revision Date	2005/04/14	

Company Identification

The Valspar Corporation - Architectural Coatings Division
1000 Lake Road
Medina, OH 44256
Manufacturer's Phone: 1-330-725-4511

24-Hour Medical Emergency Phone: 1-888-345-5732

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	approx. Weight %	Chemical name
XYLENE 1330-20-7	45 - 50	Xylenes (o-, m-, p- isomers)
TOLUENE 108-88-3	15 - 20	Toluene
ETHYLBENZENE 100-41-4	10 - 15	Ethyl benzene
PROPANE 74-98-6	10 - 15	Propane
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	5 - 10	Diethylene glycol monomethyl ether
BUTANE 106-97-8	1 - 5	Butane
METHYL ALCOHOL 67-56-1	1 - 5	Methyl alcohol

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

Emergency Overview:
This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

Inhalation Effects:
Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation.

Eye Contact:
Corneal Injury/eye damage.

Skin Contact:
May cause moderate skin irritation. May be harmful if absorbed through skin.

Acute Ingestion:
May be fatal or cause blindness if swallowed.

Other Effects:
May cause central nervous system depression. May cause liver damage. Contains ingredient which is considered highly toxic. May cause kidney damage.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.Possible birth defects hazard. Contains ingredients which may cause birth defects based on animal data. May cause kidney damage. May cause liver damage.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES

Inhalation:
If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:
In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact:
In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:
Poison! Get medical attention immediately. If swallowed, contact medical personnel immediately to determine best course of action.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31º F (-35º C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	23 %
Autoignition temperature:	Not available.º F (º C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:
None known.

Extinguishing media:
Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:
Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:
Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:
Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:
Appropriate chemical resistant gloves should be worn.To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:
If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation
Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Common Name CAS-No.	approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
XYLENE 1330-20-7	45 - 50	435 MGM3 100 ppm		
TOLUENE 108-88-3	15 - 20	200 ppm	300 ppm	
ETHYLBENZENE 100-41-4	10 - 15	435 MGM3 100 ppm		
PROPANE 74-98-6	10 - 15	1800 MGM3 1000 ppm		
METHYL ALCOHOL 67-56-1	1 - 5	260 MGM3 200 ppm		

ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
XYLENE 1330-20-7	45 - 50	100 ppm	150 ppm		
TOLUENE 108-88-3	15 - 20	50 ppm			Can be absorbed through the skin.
ETHYLBENZENE 100-41-4	10 - 15	100 ppm	125 ppm		
PROPANE 74-98-6	10 - 15	1000 ppm			
BUTANE 106-97-8	1 - 5	1000 ppm			
METHYL ALCOHOL 67-56-1	1 - 5	200 ppm	250 ppm		Can be absorbed through the skin.

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	NOT DETERMINED mmHG @ 68º F (20º C)
Vapor density (air = 1.0):	4.1
Boiling point:	-42º F (-41º C)
Solubility in water:	Not determined.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	6.7

Specific Gravity .8
Evaporation rate (butyl acetate = 1.0): 5.9

10. STABILITY AND REACTIVITY

Stability Stable
Conditions to Avoid: None known.
Incompatibility: Strong oxidizers.
Hazardous Polymerization: None anticipated.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Mutagens:

Common Name CAS-No.	approx. Weight %	Calif- Prop. 65. Developmental Toxicity	California Prop 65 - reproductive male
TOLUENE 108-88-3	15 - 20	Listed: January 1, 1991 Developmental toxin.	

Teratogens:

Carcinogens:
Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

Common Name CAS-No.	approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - limited human data	IARC Group 2b - sufficient animal data
ETHYLBENZENE 100-41-4	10 - 15			Monograph 77, 2000

Common Name CAS-No.	approx. Weight %	NTP Known carcinogens	NTP Suspect carcinogens	NTP Evidence of carcinogenicity
ETHYLBENZENE 100-41-4	10 - 15			male rat-clear evidence; female rat-some evidence; male mice-some evidence; female mice-some evidence

Common Name CAS-No.	approx. Weight %	OSHA Select carcinogens	OSHA Possible select carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	10 - 15			Group A3 Confirmed animal carcinogen with unknown relevance to humans.

If this section is blank, no information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation
Proper Shipping Name: CONSUMER COMMODITY ORM-D
UN ID Number: CONCOM

49 CFR Hazardous Material Regulations Parts 100-180
The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

International Air Transport Association:
Proper Shipping Name: AEROSOLS, FLAMMABLE
Hazard Class: 2.1
UN ID Number: UN1950

International Maritime Organization:
Proper Shipping Name: AEROSOLS
Hazard Class: 2
UN ID Number: UN1950

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

Common Name CAS-No.	approx. Weight %	SARA 302	SARA 313	CERCLA RQ IN LBS.
XYLENE 1330-20-7	45 - 50		form R reporting required for 1.0% de minimis concentration	100
TOLUENE 108-88-3	15 - 20		form R reporting required for 1.0% de minimis concentration	1000
ETHYLBENZENE 100-41-4	10 - 15		form R reporting required for 1.0% de minimis concentration	1000
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	5 - 10		YES	
METHYL ALCOHOL 67-56-1	1 - 5		form R reporting required for 1.0% de minimis concentration	5000

SARA 311/312 Hazard Class:

Acute:	Yes
Chronic:	Yes
Flammability:	Yes
Reactivity:	No
Sudden Pressure:	Yes

U.S. STATE REGULATIONS:

Pennsylvania Right To Know:

XYLENE	1330-20-7
METHYL ALCOHOL	67-56-1
PROPANE	74-98-6
DIETHYLENE GLYCOL MONOMETHYL ETHER	111-77-3
ETHYLBENZENE	100-41-4
BUTANE	106-97-8
TOLUENE	108-88-3

California Proposition 65:
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Rule 66 status of product Photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory: All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List: All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health:	2
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:
OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters,

MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

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Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Personal protective equipment
	WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).	

Section 1. Product and Company Identification

Product name / Trade name	**Paint Thinner**	**Associated Product's Item Code**	**83-326**
Synonym	Petroleum Distillate	**CAS #**	Not available.
Chemical family	Aliphatic hydrocarbon (Solvent.)	**Validation date**	**Nov. 08 2007**
Chemical formula	Not available.	**Print date**	Nov. 08 2007
Manufacturer	Recochem Inc. 850 Montee de Liesse Montreal, Quebec 514-341-3550	**In case of emergency**	Recochem Inc. Communications and Regulatory Affairs Department (905) 791-1788
Material uses	Not available.		

Section 2. Hazardous Ingredients

Canada

Name	CAS number	%
Petroleum Distillate		100

There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 3. Hazard Identification

Emergency Overview

WARNING !

FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE.

Flammable liquid. Keep away from heat, sparks and flame. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use.

Potential Acute Health Effects

See Section #11: "Toxicological Information" for further human health effects.

This product may cause mild irritatation to eyes and skin upon contact.
Prolonged and repeated contact with skin can cause drying of the skin resulting in irritation and dermatitis.
Inflammation of the eye is characterized by mild redness, watering, and itching.
Skin inflammation is characterized by mild itching, scaling, reddening.
Ingestion can cause burning sensation, vomiting, drowsiness and in severe cases pulmonary edema.
Inhalation of excessive amounts may result in impairment, such as drowsiness, lack of coordination, headache and nausea.

Continued on next page

Note to Physician	Aspiration hazard if swallowed. Can enter lungs and cause damage. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possible death.

Section 4. First aid measures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire fighting measures

Products of combustion	No specific data.
Fire-fighting media and instructions	Use dry chemical, CO_2, water spray (fog) or foam.
Fire Hazards	Container explosion may occur under fire conditions or when heated. Vapor may travel a considerable distance to source of ignition and flash back. Vigorously supports combustion. Combustible when exposed to heat or flame.
Explosion Hazards	Vapours may travel along ground and flashback along vapour trail.

Section 6. Accidental release measures

Small spill and leak	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Large spill and leak	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before

Continued on next page

transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

See Section #10 for applicable incompatible materials.
Do not store above the following temperature: 42°C (107.6°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls, personal protection

Engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal protection

Eyes Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Recommended: splash goggles

Body Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hours (breakthrough time): nitrile rubber

Product name	Exposure limits
Canada	
Petroleum Distillate	**ACGIH (Canada, 2003).** TWA: 100 ppm 8 hour(s). TWA: 525 mg/m³ 8 hour(s).
United States	
Petroleum Distillate	**OSHA (United States, 2003).** TWA: 500 ppm 8 hour(s). TWA: 2900 mg/m³ 8 hour(s).

Section 9. Physical and chemical properties

Physical State and Appearance	Liquid.	**Odour**	Petroleum distillates
Molecular weight	Not applicable.	**Taste**	Not available.
pH	Not applicable.	**Colour**	Not available.
Boiling/condensation point	150 to 210°C (302 to 410°F)	**Volatility**	100% (v/v), 100% (w/w)
Melting/freezing point	-58°C (-72.4°F)	**Evaporation rate**	0.1 (Butyl acetate. = 1)
Relative density	0.79	**Odour Threshold**	Not available.

Continued on next page

Vapour Pressure	0.29 kPa (2.2 mm Hg)	**Viscosity**	Kinematic: 0.0114 cm^2/s (1.14 cSt)
Vapour Density	5 [Air = 1]	**Solubility**	Easily soluble in the following materials: diethyl ether, n-octanol. Insoluble in the following materials: water.
VOC Content	790 (g/l).	**Other Properties**	Not available.

The product is:	Combustible.
Auto-ignition temperature	229°C (444.2°F)
Flash Point	Closed cup: 42°C (107.6°F) [Tagliabue. (ASTM D56)]
Flammable limits	Lower: 1% Upper: 13.3%
Fire hazards in the presence of various substances	Flammable in the presence of open flames, sparks and static discharge. This product is combustible if exposed to heat or when in involved in a fire and in contact with combustible materials which may act as a wick.

Section 10. Stability and reactivity

Stability	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions of instability	No additional remark.
Incompatibility with various substances	Reactive with oxidizing agents.

Section 11. Toxicological information

Routes of entry	Eye contact. Inhalation. Ingestion.
Environmental effects	No known significant effects or critical hazards.
Acute effects on humans	
Eyes	May cause mild eye irritation.
Skin	May cause mild skin irritation.
Inhalation	Slightly hazardous by the following route of exposure: of inhalation. Exposure to very high concentrations can cause dizziness, lightheadness, headache, nausea, and blurrred vision. Higher levels may cause unconsciousness.
Ingestion	This product is of very low acute toxicity. Aspiration hazard if swallowed. Can enter lungs and cause damage.
Chronic effects on humans	

Continued on next page

Section 12. Ecological information

Ecotoxicity

For accidential discharges into environment, see Section #6: "Accidential Release Measures" for suggested instructions.
No known significant effects or critical hazards.
Not available.

Section 13. Disposal considerations

Waste information

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport information

Canada Transportation of Dangerous Goods (TDG) Information

Primary Class	Class 3: Flammable liquid.
Subsidiary Class (if applicable)	-
Proper shipping name	PETROLEUM DISTILLATES, N.O.S.
Hazard identification number	UN 1268
Packing group	III
Special Provisions	In containers of 450L or less this product is not classified as a Dangerous Goods according to TDG exemption 1.33

International Maritime Dangerous Goods (IMDG) Transportation Information

Primary Class	Class 3: Flammable liquid.
Subsidiary Class (if applicable)	-
Proper shipping name	PETROLEUM DISTILLATES, N.O.S.
Hazard identification number	UN 1268
Packing group	III
Marine pollutant	Not a pollutant.
Special Provisions	In containers of 5 L (5Kg) capacity or less this product is classified as a "Consumer Commodity" under IMDG regulations.

No placard (handling and hazard label) required.

United States Department of Transportation (DOT) Information

Primary Class	Class 3: Flammable liquid.
Subsidiary class (if applicable)	-
Proper shipping name	PETROLEUM DISTILLATES, N.O.S.

Continued on next page

Hazard identification number	UN 1268
Packing group	III
Special Provisions	In containers of 454L or less this product is not classified as a Gangerous Good according to exception 173.150 f(1-2)
International Air Transport Association (IATA)	For air shipment classification and associated regulations, please refer to the latest edition of IATA Dangerous Goods Regulations.

Section 15. Other Regulatory Information and Pictograms

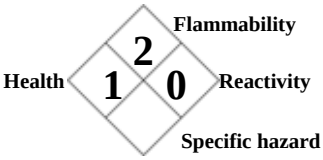
WHMIS Classification (Canada)	WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Canada Domestic Substances List (DSL) Status	This product and/ or all of its components are on the DSL.

HCS Classification (U.S.A.)	Combustible liquid
U.S.A. Regulatory Lists	This product and/ or all of its components are on the TSCA inventory list.

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	2
Reactivity	0
Personal protection	G

National Fire Protection Association (U.S.A.)



Section 16. Other information

Validated and verified by Compliance and Technical Information Manager on 11/8/2007 ph.# 905-791-1788.

Printed 11/8/2007.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MEDICAL EMERGENCY ONLY, 24 HOUR SERVICE: 1-800-328-0026
Medical Calls from Outside of the USA: 612 292 4064 (USA)

ECOLAB PROFESSIONAL PRODUCTS
DIVISION OF ECOLAB INC.
Ecolab Center, ST. PAUL, MN 55102

For Product Information,
Call: 1-800-247-5362
Date of Issue: June 26, 1997

1.0 IDENTIFICATION /

1.1 Product Name: X-14 MILDEW STAIN REMOVER
1.2 Product Type: Liquid Sodium Hypochlorite
1.3 Hazard Rating: Health - 2 Fire - 0 Reactivity - 1

++ SARA 313 Toxic Chemicals, If Present, Are Preceded by "#" ++

2.0 HAZARDOUS COMPONENTS /

		%	PEL	(mg/m3) TWA
2.1 Sodium hypochlorite	7681-52-9	4.0-4.8	*	*

* (PEL for chlorine = 3 C; ACGIH STEL = 3)

2.2 Also contains sodium carbonate.

STEL = 15 Minute Average in Air PEL = OSHA 8 Hour Average in Air

3.0 PHYSICAL DATA /

3.1 Appearance: Clear light yellow liquid with chlorine odor
3.2 Solubility in Water: Mixes with water in all proportions.
3.3 pH: 11.5 - 12.0
3.4 Initial Boiling Point: > 212 deg F
3.5 Specific Gravity: 1.05-1.11

4.0 FIRE AND EXPLOSION DATA /

4.1 Special Fire Hazards: See Line 5.1
4.2 Fire Fighting Methods: Does not support combustion.

5.0 REACTIVITY DATA /

5.1 Stability: High temperatures may generate hazardous decomposition products including chlorine gas.
5.2 Conditions to Avoid: Do not mix with acids or ammonia - will cause hazardous vapors.

6.0 SPILL OR LEAK PROCEDURES / USE PROPER PROTECTIVE EQUIPMENT

6.1 Cleanup: Dike or dam large spills. Pump to containers or soak up on inert absorbent. Flush residue to sanitary sewer.
6.2 Waste Disposal: Unused product is RCRA Corrosive (D002).

7.0 HEALTH HAZARD DATA / DANGER

7.1 Effects of Overexposure to Concentrate:
Skin and Eyes: CAUSES CHEMICAL BURNS. Eye contact may cause blindness.
If Swallowed: HARMFUL. Causes chemical burns of mouth, throat and stomach.
If Inhaled: Vapors or mist cause irritation, including a burning taste, sneezing, coughing and difficulty breathing. People with asthma or other lung problems may be more affected.

8.0 FIRST AID /

8.1 Eyes: Flush at once with cool running water. Remove contact lenses. Continue flushing for at least 15 minutes, holding eyelids apart so as to rinse entire eye. CALL A PHYSICIAN IMMEDIATELY.
8.2 Skin: Immediately flush skin with plenty of cool running water for at least 15 minutes while removing contaminated clothing and shoes; discard or wash well before reuse.
8.3 If Swallowed: Rinse mouth at once; then drink 1 or 2 large glasses of water. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person.
8.4 If Inhaled: Immediately move to fresh air.

IMMEDIATELY CALL THE MEDICAL EMERGENCY NUMBER, 1-800-328-0026,
A POISON CONTROL CENTER OR A PHYSICIAN

9.0 PROTECTIVE MEASURES /

9.1 CONCENTRATE:
Respiratory: Avoid breathing mists or vapors of this product.
Eyes: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
Skin: Use industrial rubber gloves, other protection as necessary to avoid skin contact.

10.0 ADDITIONAL INFORMATION/PRECAUTIONS /

10.1 Purpose of 06/26/97 issue: New product

KEEP OUT OF REACH OF CHILDREN

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: RQ0701772
2007
Supersedes: N/A

Issue Date: November,

Issue Date: N/A

SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Surface Sanitizing Cleaner**

Brands: **Comet Disinfecting Bathroom Cleaner (Professional Line)**

P&G Telephone Number: 1-800-332-7787or call Local Poison Control Center or your physician.

Emergency (24 hour) Telephone Number: CHEMTREC 1-800-424-9300

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestions: Mild mucous membrane irritant. May result in gastrointestinal irritation with nausea, vomiting and diarrhea.

Eye Contact: Mild eye irritant.

Inhalation: Mild respiratory irritant.

Skin: Mild skin irritant. Use on irritated or extremely dry skin may aggravate the existing condition.

Signs and Symptoms of Exposure:

Ingestion: May cause transient gastrointestinal irriation including nausea, vomiting and diarrea. When diluted according to label directions, these signs and symptoms may still be present but to a lesser extent.

Eye Contact: May cause stinging, tearing, burning, swelling and/or redness. When diluted according to label directions, these signs and symptoms may still be present but to a lesser extent.

Skin Contact: Prolonged contact may be drying or transiently irritating to skin. When diluted according to label directions, these signs and symptoms may still be present but to a lesser extent.

Inhalation: N/A

Medical Conditions Generally Known to be Aggravated by Exposure: N/K

Potential Environmental Effects: (See Section 12 for more information)

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Cleaning agents (dipropylene glycol butyl ether, citric acid), quality control agents, perfume and water.

The concentrated mixture, when tested as a whole, is considered an eye irritant within the meaning of the OSHA Hazard Communication Standard.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

Chemical Name	Common Name	CAS No.	Composition Range	LD50/LC50

None				

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: Drink 1-2 glasses of water and call a Poison Control Center or doctor (product contains an alcohol ethoxylate). Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Have the product container or label with you when calling or going for treatment

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

Skin: Thoroughly wash exposed area with soap and water and discontinue use. Remove contaminated clothing.

Inhalation:

Note to Physician: (if applicable)

Other: Product package has a precautionary statement: CAUTION: KEEP OUT OF REACH OF CHILDREN. Causes eye irritation. Avoid contact with eyes. May be harmful if swallowed. Do not mix with bleach or mildew stain removers as irritating fumes may result.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): >200°F CC (>93.33c)

Flammable Properties: N/A

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

Explosive Limits: UEL: N/A LEL: N/A

Auto-ignition Temperature: N/A

Hazardous Combustion Products: N/K

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

Extinguishing Media:

Suitable: Use CO_2, water, dry chemical or 'alcohol' foam.

Unsuitable: None known

Protection of Firefighters:

Specific Hazards Arising from the Material: None known

Protective Equipment and Precautions for Firefighters: Normal firefighting gear. Use water to keep fire exposed container cool.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Do not landfill. Small quantities may be disposed of via sewer.

Methods for Containment: Prevent spills from reaching waterways.

Methods for Cleanup: Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak.

Other Information: (if applicable)

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: Handling and storage must be well ventilated, cool and dry. Materials must be isolated from potential sources of ignition. Fire fighting equipment must be available at all times

Precautions To B e Taken in Storage: Store in a cool place. Keep away from heat/sparks and open flame. Discard empty bottle in trash.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines: N/A

Engineering Controls: N/A

Personal Protective Equipment (PPE):

Eye/Face Protection: None required with normal use.

Manufacturing: For splash protection, use chemical goggles. Eye wash fountain is desirable.

Skin Protection: None required with normal use.

Respiratory Protection: None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): clear liquid

Odor: Perfumed

Odor Threshold: N/A

Physical State: Liquid

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Boiling Point: N/A

Partition Coefficient (n-octanol/water): N/A

Flash Point (Method Used): >200F CC (>93.33c)

Reserve Alkalinity: N/A

Solubility in Water: Completely

Decomposition Temperature: N/A

Evaporation Rate (nBuOAc=1): N/A

Specific Gravity/Density: 1.030-1.045

Melting/Freezing Point: ~30°F

pH (neat solution): 2.8-3.2

Volatile Organic Compound (VOC): Product complies with State and Federal regulations for VOC content.

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: None

Incompatible Materials: Do not mix with bleach or mildew stain removers as irritating fumes may result.

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: None known

SECTION XI - TOXICOLOGICAL INFORMATION

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: NTP: No

IARC: No

SECTION XII - ECOLOGICAL INFORMATION

Based on ecotoxicity and fate data for the individual ingredients in this specific formulation this product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment at relevant environmental concentrations. The surfactant(s) used in the formulation biodegrade rapidly and do not accumulate in the environment. This product is intended for dispersive use and should not be disposed of directly into the environment.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. DO NOT LANDFILL. Prevent spills from reaching waterways.

Non-Household Setting (US Federal): Industrial disposal of product in finished, consumer-ready packaging must be disposed of as an organic pesticide. Records must be kept of the disposal that documents the method of disposal, the date of disposal, the location of the disposal site, the type of pesticide disposed of (organic pesticide), and the amount of pesticide disposed of. Disposal records must be retained for 20 years. Incineration is preferred where permitted. Product removed from finished, consumer-ready packaging may be disposed of as non-pesticidal, liquid waste which is non-hazardous waste according to Federal RCRA regulations (40 CFR 261).

Non-Household Setting (California): Hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

SECTION XIV - TRANSPORT INFORMATION

Products covered by this MSDS, in their original form, are regulated for transportation.

Ground Transport (US DOT): Consumer Commodity ORM-D

Air Transport (IATA): DO NOT SHIP. Finished product packaging does not meet air transport requirements.

Marine/Water Transport (IMDG): UN1760, Corrosive liquid, n.o.s. (citric acid), 8, PGIII, Ltd. Qty.

SECTION XV - REGULATORY INFORMATION

United States

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: 3573-54

SARA 313/302/304/311/312 chemicals: None

California: This product has been evaluated and does not require warning labeling under California Proposition 65.

California Registration Number: 3573- 54-ZF

State Right-to-Know and CERCLA:
The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists

Ingredient	CAS #	Level	CERCLA RQ	State
Citric Acid	77-92-9	3-7%	N/A	TX

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	0	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable *N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

Common Name: CRYSTAL SIMPLE GREEN
Manufacturer: SUNSHINE MAKERS
MSDS Revision Date: 8/1/2006

Grainger Item Number(s): 3UP37, 3UP38, 3UP39, 3UP40
Manufacturer Model Number(s):

MSDS Table of Contents

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MATERIAL SAFETY DATA SHEET: CRYSTAL SIMPLE GREEN(R*)

ALSO FOR: SIMPLE GREEN(R*) SAFETY TOWELS

VERSION NO.: 4013

ISSUE DATE: AUGUST 2006

I. PRODUCT & COMPANY INFORMATION

top

PRODUCT NAME: CRYSTAL SIMPLE GREEN(R*)

OTHER NAMES:
CRYSTAL SIMPLE GREEN(R*) - SPECIALIZED CLEANER / DEGREASER
SIMPLE GREEN(R*) SAFETY TOWELS (FLUID ONLY)

COMPANY NAME:
SUNSHINE MAKERS, INC.
15922 PACIFIC COAST HIGHWAY
HUNTINGTON HARBOUR, CA 92649
USA

TELEPHONE:
800-228-0709

562-795-6000

FAX: 562-592-3034

FOR 24-HOUR EMERGENCY, CALL CHEM-TEL, INC.: 800-255-3924

WEBSITE: WWW.SIMPLEGREEN.COM

USE OF PRODUCT:
A SPECIALIZED CLEANER AND DEGREASER FOR USE IN THE INDUSTRIAL AND INSTITUTIONAL WORKPLACE. (SIMPLE GREEN(R*) SAFETY TOWELS CONTAIN DILUTED CRYSTAL SIMPLE GREEN(R*).)

II. INGREDIENT INFORMATION

top

THE ONLY INGREDIENT OF CRYSTAL SIMPLE GREEN(R*) WITH ESTABLISHED EXPOSURE LIMITS IS UNDILUTED 2-BUTOXYETHANOL (<6%) (BUTYL) CELLOSOLVE; CAS NO. 111-76-2: THE ACGIH TLV-TWA IS: 20 PPM (97 MG/M3.)

THE QUANTITY OF 2-BUTOXYETHANOL IN SIMPLE GREEN SAFETY TOWELS IS <1%.

BASED UPON CHEMICAL ANALYSIS, CRYSTAL SIMPLE GREEN(R*) CONTAINS NO KNOWN EPA PRIORITY POLLUTANTS, HEAVY METALS, OR CHEMICALS LISTED UNDER RCRA, CERCLA, OR CWA. ANALYSIS BY TCLP (TOXICITY CHARACTERISTIC LEACHING PROCEDURE) ACCORDING TO RCRA REVEALED NO TOXIC ORGANIC OR INORGANIC CONSTITUENTS.

ALL COMPONENTS OF CRYSTAL SIMPLE GREEN(R*) ARE LISTED ON THE TSCA CHEMICAL SUBSTANCE INVENTORY.

III. HAZARDS IDENTIFICATION

top

UN NUMBER: NOT REQUIRED

DANGEROUS GOODS CLASS: NONHAZARDOUS

NJ TRADE SECRET REGISTRATION NUMBERS:
80100235-5000P
80100235-5001P
80100235-5002P
80100235-5003P
80100235-5004P
80100235-5005P
80100235-5006P
80100235-5007P
80100235-5008P
80100235-5009P

HAZARD RATING (NFPA/HMIS):
HEALTH 1*
REACTIVITY 0
FIRE 0
SPECIAL 0

NFPA:
1
0
0
0

RATING SCALE:
0 = MINIMAL
1 = SLIGHT

2 = MODERATE
3 = SERIOUS
4 = SEVERE

MILD EYE IRRITANT, NON-MUTAGENIC AND NON-CARCINOGENIC. NONE OF THE INGREDIENTS IN CRYSTAL SIMPLE GREEN(R) ARE REGULATED OR LISTED AS CANCER AGENTS BY FEDERAL OSHA, NTP, OR IARC.

IV. FIRST AID MEASURES

top

SYMPTOMS OF OVEREXPOSURE AND FIRST AID TREATMENT:

EYE CONTACT:
REDDENING MAY DEVELOP. IMMEDIATELY RINSE THE EYE WITH LARGE QUANTITIES OF COOL WATER; CONTINUE 10-15 MINUTES OR UNTIL THE MATERIAL HAS BEEN REMOVED; BE SURE TO REMOVE CONTACT LENSES, IF PRESENT, AND TO LIFT UPPER AND LOWER LIDS DURING RINSING. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT:
MINIMAL EFFECTS, IF ANY; RINSE SKIN WITH WATER, RINSE SHOES AND LAUNDER CLOTHING BEFORE REUSE. REVERSIBLE REDDENING MAY OCCUR IN SOME DERMAL-SENSITIVE USERS; THOROUGHLY RINSE AREA AND GET MEDICAL ATTENTION IF REACTION PERSISTS.

SWALLOWING:
ESSENTIALLY NON-TOXIC. GIVE SEVERAL GLASSES OF WATER TO DILUTE; DO NOT INDUCE VOMITING. IF STOMACH UPSET OCCURS, CONSULT PHYSICIAN.

INHALATION:
NON-TOXIC. EXPOSURES TO CONCENTRATE-MIST MAY CAUSE MILD IRRITATION OF NASAL PASSAGES OR THROAT; REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

V. FIRE FIGHTING MEASURES

top

CRYSTAL SIMPLE GREEN(R*) IS STABLE, NOT FLAMMABLE, AND WILL NOT BURN.

FLASH POINT/AUTO-IGNITION: NOT FLAMMABLE.

FLAMMABILITY LIMITS: NOT FLAMMABLE.

EXTINGUISHING MEDIA:
NOT FLAMMABLE/NONEXPLOSIVE. NO SPECIAL PROCEDURES REQUIRED.

SPECIAL FIRE FIGHTING PROCEDURES: NONE REQUIRED.

VI. ACCIDENTAL RELEASE MEASURES

top

RECOVER USABLE MATERIAL BY CONVENIENT METHOD; RESIDUAL MAY BE REMOVED BY WIPE OR WET MOP. IF NECESSARY, UNRECOVERABLE MATERIAL MAY BE WASHED TO DRAIN WITH LARGE QUANTITIES OF WATER.

VII. HANDLING, STORAGE & TRANSPORT INFORMATION

top

NO SPECIAL PRECAUTIONS ARE REQUIRED. THIS PRODUCT IS NON-HAZARDOUS FOR STORAGE AND TRANSPORT ACCORDING TO THE U.S. DEPARTMENT OF TRANSPORTATION REGULATIONS. CRYSTAL SIMPLE GREEN(R*) REQUIRES NO SPECIAL LABELING OR

PLACARDING TO MEET U.S. DEPARTMENT OF TRANSPORTATION REQUIREMENTS.

UN NUMBER: NOT REQUIRED

DANGEROUS GOODS CLASS: NONHAZARDOUS

VIII. EXPOSURE CONTROLS

top

EXPOSURE LIMITS:
THE CRYSTAL SIMPLE GREEN(R*) FORMULATION PRESENTS NO HEALTH HAZARDS TO THE USER WHEN USED ACCORDING TO LABEL DIRECTIONS FOR ITS INTENDED PURPOSES. MILD SKIN AND EYE IRRITATION IS POSSIBLE (PLEASE SEE EYE CONTACT AND SKIN CONTACT IN SECTION IV.).

VENTILATION:
NO SPECIAL VENTILATION IS REQUIRED DURING USE. LARGE-SCALE USES INDOORS SHOULD PROVIDE AN INCREASED RATE OF AIR EXCHANGE.

HUMAN HEALTH EFFECTS OR RISKS FROM EXPOSURE:
ADVERSE EFFECTS ON HUMAN HEALTH ARE NOT EXPECTED FROM CRYSTAL SIMPLE GREEN(R*), BASED UPON TWENTY YEARS OF USE OF SIMPLE GREEN WITHOUT REPORTED ADVERSE HEALTH INCIDENCE IN DIVERSE POPULATION GROUPS, INCLUDING EXTENSIVE USE BY INMATES OF U.S. FEDERAL PRISONS IN CLEANING OPERATIONS.

CRYSTAL SIMPLE GREEN(R*) IS A MILD EYE IRRITANT; MUCOUS MEMBRANES MAY BECOME IRRITATED BY CONCENTRATE-MIST.

CRYSTAL SIMPLE GREEN(R*) IS NOT LIKELY TO IRRITATE THE SKIN IN THE MAJORITY OF USERS. REPEATED DAILY APPLICATION TO THE SKIN WITHOUT RINSING, OR CONTINUOUS CONTACT OF CRYSTAL SIMPLE GREEN(R*) ON THE SKIN MAY LEAD TO TEMPORARY, BUT REVERSIBLE, IRRITATION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
NO AGGRAVATION OF EXISTING MEDICAL CONDITIONS IS EXPECTED; DERMAL-SENSITIVE USERS MAY REACT TO DERMAL CONTACT BY CRYSTAL SIMPLE GREEN(R*).

IX. PERSONAL PROTECTION

top

PRECAUTIONARY MEASURES: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

EYE PROTECTION:
CAUTION, INCLUDING REASONABLE EYE PROTECTION, SHOULD ALWAYS BE USED TO AVOID EYE CONTACT WHERE SPLASHING MAY OCCUR.

SKIN PROTECTION:
NO SPECIAL PRECAUTIONS REQUIRED; RINSE COMPLETELY FROM SKIN AFTER CONTACT.

RESPIRATORY PROTECTION:
NO SPECIAL PRECAUTIONS REQUIRED EXCEPT DURING LARGE-SCALE SPRAY APPLICATIONS WHERE SPRAY MIST LEVELS ARE HIGH.

WORK AND HYGIENIC PRACTICES:
WASH OR RINSE HANDS BEFORE TOUCHING EYES OR CONTACT LENSES. FOLLOW STANDARD HYGIENIC PRACTICES FOR HANDLING CLEANING AGENTS.

X. PHYSICAL AND CHEMICAL PROPERTIES

top

APPEARANCE/ODOR: CLEAR LIQUID

SPECIFIC GRAVITY: 1.020

pH OF CONCENTRATE: 9.35

EVAPORATION: >1 (BUTYL ACETATE = 1)

BOILING POINT: 100.6 DEG. C (212 DEG. F)

FREEZING POINT: -9 DEG. C (16 DEG. F)
IF PRODUCT FREEZES, IT WILL RECONSTITUTE WITHOUT LOSS OF EFFICACY WHEN BROUGHT BACK TO ROOM TEMPERATURE AND AGITATED.

VAPOR PRESSURE:
18 MMHg @ 20 DEG. C
23.5 MMHg @ 26 DEG. C

VAPOR DENSITY: 1.3 (AIR = 1)

DENSITY: 8.5 LBS./GALLON

VOC COMPOSITE PARTIAL PRESSURE: 0 MMHg @ 20 DEG. C

VOLATILE ORGANIC COMPOUNDS (VOCS):
0 G/L PER ASTM METHOD 3960-90. PER EPA METHOD 24, VOCS ARE 5.9% AND PRODUCT MUST BE DILUTED AT LEAST 1 PART OF WATER TO 1 PART SIMPLE GREEN(R*) IN ORDER TO MEET CARB 2005 VOC REGULATIONS - OR 1 PART SIMPLE GREEN TO 3 PARTS WATER TO MEET SCAQMD RULE 1171 & RULE 1122 AND BAAQMD REGULATION 8-16 VOC REQUIREMENTS FOR SOLVENT CLEANING OPERATIONS.

SAFETY TOWEL VOCS: PER EPA METHOD 24, VOCS ARE 0.5%.

SAFETY TOWEL pH: 8.1 - 8.8

WATER SOLUBILITY: CRYSTAL SIMPLE GREEN(R*) IS COMPLETELY SOLUBLE IN WATER.

DETECTION:
CRYSTAL SIMPLE GREEN(R*) AND SIMPLE GREEN(R*) SAFETY TOWELS HAVE A CHARACTERISTIC ODOR THAT IS NOT INDICATIVE OF ANY HAZARDOUS SITUATION.

XI. STABILITY AND REACTIVITY INFORMATION

top

NONREACTIVE. CRYSTAL SIMPLE GREEN(R*) IS STABLE, EVEN UNDER FIRE CONDITIONS, AND WILL NOT REACT WITH WATER OR OXIDIZERS. HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

XII. TOXICOLOGICAL INFORMATION

top

THE INFORMATION AND CONCLUSIONS CITED IN THIS SECTION ARE BASED ON DATA AND TESTING OF SIMPLE GREEN(R*). THE DATA ARE DIRECTLY APPLICABLE TO CRYSTAL SIMPLE GREEN(R*) BECAUSE BOTH FORMULATIONS ARE VIRTUALLY IDENTICAL, EXCEPT FOR FRAGRANCE AND COLOR.

NONHUMAN TOXICITY:

ACUTE MORTALITY STUDIES:
ORAL LD50 (RAT): >5.0 G/KG BODY WEIGHT
DERMAL LD50 (RABBIT): >2.0 G/KG BODY WEIGHT

DERMAL IRRITATION:
ONLY MILD, BUT REVERSIBLE, IRRITATION WAS FOUND IN A STANDARD 72-HR TEST ON RABBITS. A VALUE OF 0.2 (NON-IRRITATING) WAS FOUND ON A SCALE OF 8.

EYE IRRITATION:

WITH OR WITHOUT RINSING WITH WATER, THE IRRITATION SCORES IN RABBITS AT 24 HOURS DID NOT EXCEED 15 (MILD IRRITANT) ON A SCALE OF 110.

SUBCHRONIC DERMAL EFFECTS:
NO ADVERSE EFFECTS, EXCEPT REVERSIBLE DERMAL IRRITATION, WERE FOUND IN RABBITS EXPOSED TO SIMPLE GREEN(R*) (UP TO 2.0 G/KG/DAY FOR 13 WEEKS) APPLIED TO THE SKIN OF 25 MALES AND 25 FEMALES. ONLY FEMALE BODY WEIGHT GAIN WAS AFFECTED. DETAILED MICROSCOPIC EXAMINATION OF ALL MAJOR TISSUES SHOWED NO ADVERSE CHANGES.

FERTILITY ASSESSMENT BY CONTINUOUS BREEDING:
THE SIMPLE GREEN(R*) FORMULATION HAD NO ADVERSE EFFECT ON FERTILITY AND REPRODUCTION IN CD-1 MICE WITH CONTINUOUS ADMINISTRATION FOR 18 WEEKS, AND HAD NO ADVERSE EFFECT ON THE REPRODUCTIVE PERFORMANCE OF THEIR OFFSPRING.

XIII. BIODEGRADABILITY AND ENVIRONMENTAL TOXICITY INFORMATION

top

BIODEGRADABILITY:
LIKE SIMPLE GREEN(R*), CRYSTAL SIMPLE GREEN(R*) IS READILY DECOMPOSED BY NATURALLY OCCURRING MICROORGANISMS. THE BIOLOGICAL OXYGEN DEMAND (BOD), AS A PERCENTAGE OF THE CHEMICAL OXYGEN DEMAND (COD), AFTER 4, 7, AND 11 DAYS WAS 56%, 60%, AND 70%, RESPECTIVELY. PER OECD CLOSED BOTTLE TEST, CRYSTAL SIMPLE GREEN(R*) MEETS OECD AND EPA RECOMMENDATIONS FOR READY BIODEGRADABILITY.

IN A STANDARD BIODEGRADATION TEST WITH SOILS FROM THREE DIFFERENT COUNTRIES, BUTYL CELLOSOLVE REACHED 50% DEGRADATION IN 6 TO 23 DAYS, DEPENDING UPON SOIL TYPE, AND EXCEEDED THE RATE OF DEGRADATION FOR GLUCOSE, WHICH WAS USED AS A CONTROL FOR COMPARISON.

ENVIRONMENTAL TOXICITY INFORMATION:
CRYSTAL SIMPLE GREEN(R*) IS CONSIDERED PRACTICALLY NON-TOXIC PER EPA'S AQUATIC TOXICITY SCALE.

XIV. DISPOSAL CONSIDERATIONS

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CRYSTAL SIMPLE GREEN(R*) IS FULLY WATER SOLUBLE AND BIODEGRADABLE AND WILL NOT HARM SEWAGE-TREATMENT MICROORGANISMS IF DISPOSAL BY SEWER OR DRAIN IS NECESSARY. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.

XV. OTHER INFORMATION

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CONTAINERS:
CRYSTAL SIMPLE GREEN(R*) RESIDUES CAN BE COMPLETELY REMOVED BY RINSING WITH WATER; THE CONTAINER MAY BE RECYCLED OR APPLIED TO OTHER USES.

CONTACT POINT:
SUNSHINE MAKERS, INC., RESEARCH AND DEVELOPMENT DIVISION: 562-795-6000.

NATIONAL STOCK NUMBERS:

PART#	NSN	SIZE
19024	7930-01-418-1151	24 OZ. SPRAY (12/CS)
19128	7930-01-418-1152	1 GAL. (6/CS)
19005	7930-01-418-1153	5 GAL.
19055	7930-01-418-1155	55 GAL.

SIMPLE GREEN SAFETY TOWEL PART NUMBERS:

PART #	SIZE
13353	5-COUNT POUCH (50/CS)
13351	75-COUNT CANISTER (6/CS)

NOTICE:
ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED BY THE MANUFACTURER AND RECOGNIZED TECHNICAL SOURCES. JUDGMENTS AS TO THE SUITABILITY OF INFORMATION HEREIN FOR PURCHASER'S PURPOSES ARE NECESSARILY PURCHASER'S RESPONSIBILITY. THEREFORE, ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF THIS INFORMATION, SUNSHINE MAKERS, INC. OR ITS DISTRIBUTORS EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS AND ASSUMES NO RESPONSIBILITY AS TO THE SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO PURCHASER'S INTENDED PURPOSES OR FOR CONSEQUENCES OF ITS USE.

Material Safety Data Sheet: **Simple Green® All-Purpose Cleaner**
Simple Green® Scrubbing Pad
Version No. 10013c Date of Issue: July 2007 *ANSI-Z400.1-2003 Format*

Section 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: Simple Green® All-Purpose Cleaner
Simple Green® Scrubbing Pad
Additional Name: Simple Green® Concentrated Cleaner/Degreaser/Deodorizer

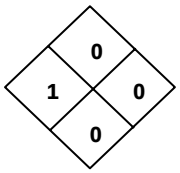
Manufacturer's Product Code Numbers: **Please refer to page 4*

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Harbour, CA 92649 USA
Telephone: 800-228-0709 ● 562-795-6000 Fax: 562-592-3830
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Use of Product: An all purpose cleaner and degreaser used diluted in water for direct, spray and dip tank procedures. Scrubbing pad is used with water for manual scrubbing applications.

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Mild eye irritant.
Simple Green@ is a dark green liquid with a sassafras odor. Scrubbing Pad is a green fibrous rectangle.



HMIS Rating:
Health = 1 = slight
Fire = 0
Reactivity, and Special = 0 = minimal

Eye Contact: Mild Eye Irritant.

Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Under this condition, use of gloves or skin moisturizer after washing may be indicated.

Ingestion: May cause stomach or intestinal upset if swallowed (due to detersive properties.)

Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present when using Simple Green® over a prolonged period of time. Open windows or ventilate via fan or other air-moving equipment if necessary.

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Medical Conditions: No medical conditions are known to be aggravated by exposure to Simple Green®. Dermal-sensitive users may experience mild but reversible reactions.

UN Number: Not Required **Dangerous Goods Class:** Nonhazardous

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

The only ingredient of Simple Green® with established exposure limits is undiluted 2-butoxyethanol (<6%) (Butyl Cellosolve; CAS No. 111-76-2): the ACGIH TLV-TWA is 20 ppm (97 mg/m^3). Based upon chemical analysis, Simple Green® contains no known EPA priority pollutants, heavy metals or chemicals listed under RCRA, CERCLA, or CWA. Analysis by TCLP (Toxicity Characteristic Leaching Procedure) according to RCRA revealed no toxic organic or inorganic constituents.

All components of Simple Green® are listed on the TSCA Chemical Substance Inventory.

NJ Trade Secret Numbers				
80100235-5000p	80100235-5002p	80100235-5004p	80100235-5006p	80100235-5008p
80100235-5001p	80100235-5003p	80100235-5005p	80100235-5007p	80100235-5009p

Section 4: FIRST AID MEASURES

Eye Contact:	Reddening may develop. Immediately rinse the eye with large quantities of cool water; continue 10-15 minutes or until the material has been removed; be sure to remove contact lenses, if present, and to lift upper and lower lids during rinsing. Get medical attention if irritation persists.
Skin Contact:	Minimal effects, if any; rinse skin with water, rinse shoes and launder clothing before reuse. Reversible reddening may occur in some dermal-sensitive users; thoroughly rinse area and get medical attention if reaction persists.
Swallowing;	Essentially non-toxic. Give several glasses of water to dilute; do not induce vomiting. If stomach upset occurs, consult physician.
Inhalation:	Non-toxic. Exposure to concentrate may cause mild irritation of nasal passages or throat; remove to fresh air. Get medical attention if irritation persists.

Section 5: FIRE FIGHTING MEASURES

Simple Green® is stable, not flammable, and will not burn. No special procedures required.

Flash Point/Auto-Ignition: Not flammable. Extinguishing Media: Not flammable/nonexplosive.
Flammability Limits: Not flammable. Special Fire Fighting Procedures: None required.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

Method for cleaning up: Recover usable material by convenient method, residual may be removed by wipe or wet mop. If necessary, unrecoverable material may be washed to drain with large quantities of water.

Section 7: HANDLING AND STORAGE

No Special precautions are required. **This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations.** Simple Green® requires no special labeling or placarding to meet U.S. Department of Transportation requirements.

UN Number: Not Required **Dangerous Goods Class:** Nonhazardous

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	The Simple Green® formulation presents no health hazards to the user when used according to label directions for its intended purposes. Mild skin and eye irritation is possible (please see Eye contact and Skin contact in section IV.) No special precautionary measures required under normal use conditions.
Ventilation:	No special ventilation, precautions or respiratory protection is required during normal use. Large-scale use indoors should provide an increased rate of air exchange.
Human Health Effects or Risks From Exposure:	Adverse effects on human health are not expected from Simple Green®, based on 20 years of use of Simple Green® without reported adverse health incidence in diverse population groups, including extensive use by inmates of U.S. Federal prisons in cleaning operations.
Eye protection:	Simple Green® is a mild eye irritant; mucous membranes may become irritated by concentrate. Eye protection not generally required. Wash hands after using wipes.
Skin protection:	Simple Green® is not likely to irritate the skin in the majority of users. Repeated daily application to the skin without rinsing, or continuous contact on the skin may lead to temporary, but reversible, irritation. Rinse completely from skin after contact.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION – continued –

General hygiene conditions: There are no known hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common good industrial hygiene practices:

- Avoid breathing vapor or mist.
- Avoid contact with eyes.
- Wash thoroughly after handling and before eating, drinking, or smoking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Cleaner is a dark green liquid, pad is a fibrous green matrix; both exhibit a sassafras odor.			
Specific Gravity:	1.020	**Vapor Pressure:**	18 mm Hg @ 20°C; 23.5 mmHg @ 26°C
Evaporation:	>1 (butyl acetate = 1)	**Vapor Density:**	1.3 (air = 1)
Water Solubility:	100%	**Density:**	8.5 lbs/gallon
Boiling Point:	100.6°C (212°F)	**pH:**	9.35; Safety Towel pH is 8.1 - 8.8
Ash Content:	At 600°F: 1.86% by weight	**Nutrient Content:** Phosphorus: 0.3% by formula Nitrogen <1.0% by weight (fusion and qualitative test for ammonia) Sulfur: 0.6% by weight (barium chloride precipitation method)	
Freezing Point: Approx -9 °C (16 °F) *If product freezes, it will reconstitute without loss of efficacy when brought back to room temperature and agitated.*			
VOC Composite Partial Pressure: 0.006 mmHg @ 20°C			
Volatile Organic Compounds (VOCs): Per EPA Method 24, VOC's are 5.9%. Cleaner must be diluted at least 1 part Simple Green to 2 parts water to meet CARB, and 1 part Simple Green to 3 parts water to meet SCAQMD Rule 1171 & Rule 1122 and BAAQMD Regulation 8-16 VOC requirements for solvent cleaning operations. Towel VOCs are 1.2%.			

Section 10: STABILITY AND REACTIVITY

Stability: Stable
Materials to Avoid: None known
Hazardous Decomposition Products: None expected

Section 11: TOXICOLOGICAL INFORMATION

Nonhuman Toxicity (Data for Simple Green®)

Acute Toxicity: Oral LD_{50} (rat): >5.0 g/kg body weight Dermal LD_{50} (rabbit) >2.0 g/kg body weight

Eye Irritation: With or without rinsing with water, the irritation scores in rabbits at 24 hours did not exceed 15 (mild irritant) on a scale of 0-110.

Dermal Irritation: Only mild, but reversible, irritation was found in a standard 72 hour test on rabbits. A value of 0.2 (non-irritating) was found on a scale of 0-8.

Subchronic Dermal effects: No adverse effects, except reversible dermal irritation, were found in rabbits exposed to Simple Green (up to 2.0 g/kg/day for 13 weeks) applied to the skin of 25 males and 25 females. Only female body weight gain was affected.

Fertility Assessment by Continuous Breeding: The Simple Green® formulation had no adverse effect on fertility and reproduction in Cd-1 mice with continuous administration for 18 weeks, and had no adverse effect on the reproductive performance of their offspring.

Section 12: ECOLOGICAL INFORMATION

Biodegradability: Simple Green® is readily decomposed by naturally occurring microorganisms. The biological oxygen demand (BOD), as a percentage of the chemical oxygen demand (COD), after 4, 7, and 11 days was 56%, 60% and 70%, respectively. Per OECD Closed Bottle Test, Simple Green® meets OECD and EPA recommendations for ready biodegradability.

In a standard biodegradation test with soils from three different countries, Butyl Cellosolve reached 50% degradation in 6 to 23 days, depending upon soil type, and exceeded the rate of degradation for glucose which was used as a control for comparison.

Environmental Toxicity Information: Simple Green® is considered practically non-toxic per EPA's Aquatic toxicity scale.

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal laws. Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

This product is non-hazardous for transport according to the U.S. Department of Transportation Services
UN Number: Not required Dangerous Goods Class: Nonhazardous

Section 15: REGULATORY INFORMATION

All components are listed on:	EINECS and TSCA Inventory		
*Reportable components:	None.	No components listed under:	Clean Air Act Section 112
RCRA Status:	Not a hazardous waste.	CERCLA Status:	No components listed
TSCA TRI Reporting:	Not required / Not listed	CA PROP. 65 Status:	No components listed

Section 16: OTHER INFORMATION

Questions about the information found on this MSDS should be directed to:
SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT
15922 Pacific Coast Hwy. Huntington Harbour, CA 92649

Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri] *Fax:* 562/592-3830 *Email:* infoweb@simplegreen.com

National Stock Numbers & Industrial Numbers:

Simple Green

Part Number	NSN	Size
13012	7930-01-342-5315	24 oz spray (12/case)
13005	7930-01-306-8369	1 Gallon (6/case)
13006	7930-01-342-5316	5 Gallon
13016	7930-01-342-5317	15 Gallon
13008	7930-01-342-4145	55 Gallon

Scrubbing Pad

Part Number	NSN	Size
10224	7930-01-346-9148	Each (24/case)

Retail Numbers:

Part Number	Size
13002	16 oz Trigger (12/case)
13005	1 Gallon (6/case)
13013	24 oz Trigger (12/case)
13014	67 oz / 2 L (6/case)
13033	32 oz Trigger (12/case)

** part number is for both industrial and retail*

****International Part Numbers May Differ.**

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Material Safety Data Sheet: **Simple Green® All-Purpose Cleaner**
Simple Green® Scrubbing Pad
Version No. 10013c Date of Issue: July 2007 *ANSI-Z400.1-2003 Format*

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Additional Name: Simple Green® Concentrated Cleaner/Degreaser/Deodorizer

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Telephone: 800-228-0709 ● 562-795-6000 Fax: 562-592-3830
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

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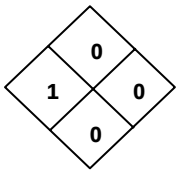
Section 2: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION. Mild eye irritant.
Simple Green@ is a dark green liquid with a sassafras odor. Scrubbing Pad is a green fibrous rectangle.



HMIS Rating:
Health = 1 = slight
Fire = 0
Reactivity, and Special = 0 = minimal

Eye Contact: Mild Eye Irritant.

Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Under this condition, use of gloves or skin moisturizer after washing may be indicated.

Ingestion: May cause stomach or intestinal upset if swallowed (due to detersive properties.)

Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present when using Simple Green® over a prolonged period of time. Open windows or ventilate via fan or other air-moving equipment if necessary.

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Medical Conditions: No medical conditions are known to be aggravated by exposure to Simple Green®. Dermal-sensitive users may experience mild but reversible reactions.

UN Number: Not Required **Dangerous Goods Class:** Nonhazardous

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

The only ingredient of Simple Green® with established exposure limits is undiluted 2-butoxyethanol (<6%) (Butyl Cellosolve; CAS No. 111-76-2): the ACGIH TLV-TWA is 20 ppm (97 mg/m^3). Based upon chemical analysis, Simple Green® contains no known EPA priority pollutants, heavy metals or chemicals listed under RCRA, CERCLA, or CWA. Analysis by TCLP (Toxicity Characteristic Leaching Procedure) according to RCRA revealed no toxic organic or inorganic constituents.

All components of Simple Green® are listed on the TSCA Chemical Substance Inventory.

NJ Trade Secret Numbers				
80100235-5000p	80100235-5002p	80100235-5004p	80100235-5006p	80100235-5008p
80100235-5001p	80100235-5003p	80100235-5005p	80100235-5007p	80100235-5009p

Section 4: FIRST AID MEASURES

Eye Contact:	Reddening may develop. Immediately rinse the eye with large quantities of cool water; continue 10-15 minutes or until the material has been removed; be sure to remove contact lenses, if present, and to lift upper and lower lids during rinsing. Get medical attention if irritation persists.
Skin Contact:	Minimal effects, if any; rinse skin with water, rinse shoes and launder clothing before reuse. Reversible reddening may occur in some dermal-sensitive users; thoroughly rinse area and get medical attention if reaction persists.
Swallowing;	Essentially non-toxic. Give several glasses of water to dilute; do not induce vomiting. If stomach upset occurs, consult physician.
Inhalation:	Non-toxic. Exposure to concentrate may cause mild irritation of nasal passages or throat; remove to fresh air. Get medical attention if irritation persists.

Section 5: FIRE FIGHTING MEASURES

Simple Green® is stable, not flammable, and will not burn. No special procedures required.

Flash Point/Auto-Ignition: Not flammable. Extinguishing Media: Not flammable/nonexplosive.
Flammability Limits: Not flammable. Special Fire Fighting Procedures: None required.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes. Do not rub eyes with hands during cleanup. No special precautions for dermal contact are needed. Wash hands thoroughly after cleaning up spill or leak.

Method for cleaning up: Recover usable material by convenient method, residual may be removed by wipe or wet mop. If necessary, unrecoverable material may be washed to drain with large quantities of water.

Section 7: HANDLING AND STORAGE

No Special precautions are required. **This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations.** Simple Green® requires no special labeling or placarding to meet U.S. Department of Transportation requirements.

UN Number: Not Required **Dangerous Goods Class:** Nonhazardous

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	The Simple Green® formulation presents no health hazards to the user when used according to label directions for its intended purposes. Mild skin and eye irritation is possible (please see Eye contact and Skin contact in section IV.) No special precautionary measures required under normal use conditions.
Ventilation:	No special ventilation, precautions or respiratory protection is required during normal use. Large-scale use indoors should provide an increased rate of air exchange.
Human Health Effects or Risks From Exposure:	Adverse effects on human health are not expected from Simple Green®, based on 20 years of use of Simple Green® without reported adverse health incidence in diverse population groups, including extensive use by inmates of U.S. Federal prisons in cleaning operations.
Eye protection:	Simple Green® is a mild eye irritant; mucous membranes may become irritated by concentrate. Eye protection not generally required. Wash hands after using wipes.
Skin protection:	Simple Green® is not likely to irritate the skin in the majority of users. Repeated daily application to the skin without rinsing, or continuous contact on the skin may lead to temporary, but reversible, irritation. Rinse completely from skin after contact.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION – continued –

General hygiene conditions: There are no known hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common good industrial hygiene practices:

- Avoid breathing vapor or mist.
- Avoid contact with eyes.
- Wash thoroughly after handling and before eating, drinking, or smoking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Cleaner is a dark green liquid, pad is a fibrous green matrix; both exhibit a sassafras odor.			
Specific Gravity:	1.020	**Vapor Pressure:**	18 mm Hg @ 20°C; 23.5 mmHg @ 26°C
Evaporation:	>1 (butyl acetate = 1)	**Vapor Density:**	1.3 (air = 1)
Water Solubility:	100%	**Density:**	8.5 lbs/gallon
Boiling Point:	100.6°C (212°F)	**pH:**	9.35; Safety Towel pH is 8.1 - 8.8
Ash Content:	At 600°F: 1.86% by weight	**Nutrient Content:** Phosphorus: 0.3% by formula Nitrogen <1.0% by weight (fusion and qualitative test for ammonia) Sulfur: 0.6% by weight (barium chloride precipitation method)	
Freezing Point: Approx -9 °C (16 °F) *If product freezes, it will reconstitute without loss of efficacy when brought back to room temperature and agitated.*			
VOC Composite Partial Pressure: 0.006 mmHg @ 20°C			
Volatile Organic Compounds (VOCs): Per EPA Method 24, VOC's are 5.9%. Cleaner must be diluted at least 1 part Simple Green to 2 parts water to meet CARB, and 1 part Simple Green to 3 parts water to meet SCAQMD Rule 1171 & Rule 1122 and BAAQMD Regulation 8-16 VOC requirements for solvent cleaning operations. Towel VOCs are 1.2%.			

Section 10: STABILITY AND REACTIVITY

Stability: Stable
Materials to Avoid: None known
Hazardous Decomposition Products: None expected

Section 11: TOXICOLOGICAL INFORMATION

Nonhuman Toxicity (Data for Simple Green®)

Acute Toxicity: Oral LD_{50} (rat): >5.0 g/kg body weight Dermal LD_{50} (rabbit) >2.0 g/kg body weight

Eye Irritation: With or without rinsing with water, the irritation scores in rabbits at 24 hours did not exceed 15 (mild irritant) on a scale of 0-110.

Dermal Irritation: Only mild, but reversible, irritation was found in a standard 72 hour test on rabbits. A value of 0.2 (non-irritating) was found on a scale of 0-8.

Subchronic Dermal effects: No adverse effects, except reversible dermal irritation, were found in rabbits exposed to Simple Green (up to 2.0 g/kg/day for 13 weeks) applied to the skin of 25 males and 25 females. Only female body weight gain was affected.

Fertility Assessment by Continuous Breeding: The Simple Green® formulation had no adverse effect on fertility and reproduction in Cd-1 mice with continuous administration for 18 weeks, and had no adverse effect on the reproductive performance of their offspring.

Section 12: ECOLOGICAL INFORMATION

Biodegradability: Simple Green® is readily decomposed by naturally occurring microorganisms. The biological oxygen demand (BOD), as a percentage of the chemical oxygen demand (COD), after 4, 7, and 11 days was 56%, 60% and 70%, respectively. Per OECD Closed Bottle Test, Simple Green® meets OECD and EPA recommendations for ready biodegradability.

In a standard biodegradation test with soils from three different countries, Butyl Cellosolve reached 50% degradation in 6 to 23 days, depending upon soil type, and exceeded the rate of degradation for glucose which was used as a control for comparison.

Environmental Toxicity Information: Simple Green® is considered practically non-toxic per EPA's Aquatic toxicity scale.

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal laws. Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

This product is non-hazardous for transport according to the U.S. Department of Transportation Services
UN Number: Not required Dangerous Goods Class: Nonhazardous

Section 15: REGULATORY INFORMATION

All components are listed on:	EINECS and TSCA Inventory		
*Reportable components:	None.	No components listed under:	Clean Air Act Section 112
RCRA Status:	Not a hazardous waste.	CERCLA Status:	No components listed
TSCA TRI Reporting:	Not required / Not listed	CA PROP. 65 Status:	No components listed

Section 16: OTHER INFORMATION

Questions about the information found on this MSDS should be directed to:
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15922 Pacific Coast Hwy. Huntington Harbour, CA 92649

Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri] *Fax:* 562/592-3830 *Email:* infoweb@simplegreen.com

National Stock Numbers & Industrial Numbers:

Simple Green

Part Number	NSN	Size
13012	7930-01-342-5315	24 oz spray (12/case)
13005	7930-01-306-8369	1 Gallon (6/case)
13006	7930-01-342-5316	5 Gallon
13016	7930-01-342-5317	15 Gallon
13008	7930-01-342-4145	55 Gallon

Scrubbing Pad

Part Number	NSN	Size
10224	7930-01-346-9148	Each (24/case)

Retail Numbers:

Part Number	Size
13002	16 oz Trigger (12/case)
13005	1 Gallon (6/case)
13013	24 oz Trigger (12/case)
13014	67 oz / 2 L (6/case)
13033	32 oz Trigger (12/case)

** part number is for both industrial and retail*

****International Part Numbers May Differ.**

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Procter & Gamble
CPG TN 6
2 Procter & Gamble Plaza
Cincinnati, OH 45202

MATERIAL SAFETY DATA SHEET

Issue Date: 12/2005
Supersedes: N/A Issue Date: 8/01

SECTION I - CHEMICAL PRODUCT

Identity: **Granular Cleaner with Bleach**

Brands: **SPIC and SPAN Floor Cleaner with BLEACH** (non-phosphate & phosphate)

Hazard Rating: 1

Health: 1	4=EXTREME
Flammability: 0	3=HIGH
Reactivity: 0	2= MODERATE
	1=SLIGHT

Emergency Telephone Number: - 1-800-332-7787 or call Local Poison Control Center

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Anionic surfactants, water softeners (sodium carbonate, complex sodium phosphates [phosphate version]), dry chlorine bleach, processing aids (sodium sulfate), metal protection agents (sodium silicates).

This product is a mild eye irritant within the meaning of the OSHA Hazard Communication Standard

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200 and/or WHMIS under the Hazardous Product Act.

Chemical Name	Common Name	CAS No.	Recommended Limits	Composition Range	LD50/LC50
Sodium carbonate	Soda Ash	497-19-8	N/A	15-40% (OP) 10-25% (P)	LD50=1.86 g/kg LC50=N/A
Sodium dichloroisocynanurate dihydrate	Sodium DCC	2893-78-9	AGCY TLV 10 mg/m3 OSHA PEL 15 mg/m3	10-15%	LD50=735 mg/kg rat
Linear alkyl benzene sulfonate	C12.3 LAS	68081-81-2	N/A	15-30%	LD50=0.65-1.26 g/kg LC50=N/A

SECTION III - HAZARDS IDENTIFICATION

Health Hazards & Symptoms (Acute and Chronic):

Ingestion: May cause transient gastrointestinal irritation with nausea, vomiting and/or diarrhea.

Eye Contact: May cause mild, transient irritation with stinging, tearing, itching,swelling and redness.

Inhalation: Heavy or prolonged exposure to dust may cause transient respiratory tract irritation with coughing, sore throat, wheezing or transitiory shortness of breath.

SECTION IV - FIRST AID INFORMATION

Emergency and First Aid Procedures:

Ingestion:	Drink 1 or 2 large glasses of water. If large amounts are ingested, call a physician.
Eye Contact:	Flush with large amounts of water for at 10-15 minutes.
Skin:	Rinse skin thoroughly with water. Discontinue use.
Inhalation:	Leave dusty area.

Other: Product package has a caution statement: CAUTION:. May cause eye/skin irritation. Eye irritant. Avoid eye contact. Do not mix with other cleaning products as irritating fumes may be released. May be irritating to skin. For sensitive skin or prolonged use, wear gloves. If eye or skin contact occurs, flush with water for 15 minutes. If irritation persists, seek medical attention. KEEP OUT OF REACH OF CHILDREN

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): N/A **Explosive Limits**: *LEL:* N/A *UEL*: N/A

Extinguishing Media: CO_2, water, or dry chemical

Special Fire Fighting Procedures: None known.

Unusual Fire Hazards: N/A

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, PROVINCIAL AND LOCAL REGULATIONS. Solutions may be disposed of in sewer. Dry product may be landfilled if permitted by local regulations. Discard empty container in trash.

Steps To Be Taken in Case Material is Released or Spilled: Dispose as dry scrap or flush small quantities down acceptable sewer (contains biodegradable surfactants). Dispose of according to local regulations. Prevent heavy exposure to dust with NIOSH approved dust mask.

SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storing: Store in a cool, dry place. Keep product dry to maintain free-flowing granules.

Other Precautions: None

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection (Specify Type): None required with normal use.

Ventilation *Local Exhaust*: None required with normal use. *Special*: None

Mechanical (General): Acceptable. *Other*: None

Eye Protection: None required with normal use.

Manufacturing Setting: With dusty conditions or if a splash is likely, chemical goggles may be needed.

Protective Gloves: None required with normal use.

Manufacturing Setting: Protective gloves (rubber, neoprene) should be used for any prolonged direct contact.

Other Protective Equipment: None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point ° F: N/A

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Odor Threshold: N/A

Coefficient of Water/Oil Distribution: N/A

Scooped Density: 0.4/cc (bulk density)

Appearance and Odor: White granule with green specks and bland odor

Specific Gravity (H_2O=1): N/A

Percent Volatile by Volume (%): N/A

Evaporation Rate (nBuOAc=1): N/A

Freezing Point: N/A

pH (1% solution): ~10.9

Solubility in Water: Mostly

Reserve Alkalinity: 4.0 max

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None known

Conditions to Avoid: None

Materials to Avoid: Products which contain ammonia or are acidic

Hazardous Decomposition Products: Chlorine gas

Other Recommendations: None

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION XI - TOXICOLOGICAL INFORMATION

LD50 (rats oral): 2.9g/kg

SECTION XII - ECOLOGICAL INFORMATION

None

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, PROVINCIAL AND LOCAL REGULATIONS. Small quantities may be disposed of in sewer. Dry product may be landfilled. Discard empty container in trash.

SECTION XIV - TRANSPORT INFORMATION

DOT Classification: The finished product is not DOT hazardous.

SECTION XV - ADDITIONAL REGULATORY INFORMATION

All components are listed on the US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5.

No components of Spic and Span with Bleach are subject to California Proposition 65.

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with Hazard Criteria of the Canadian Control Products Regulation (CPR) and this MSDS contains all information required by the Canadian Products Regulation.

SECTION XVI - OTHER INFORMATION

*N/A. - Not Applicable *N/K. - Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.

Procter & Gamble
CPG TN 6
2, Procter & Gamble Plaza
Cincinnati (Ohio) 45202

FICHE SIGNALÉTIQUE

Date de publication : 12-2005
Remplace : S.O. Date de publication : 8-01

SECTION 1 – IDENTIFICATION DU PRODUIT

Identification : **Nettoyant granulaire avec javellisant**

Marques : **Nettoyant avec JAVELLISANT pour planchers SPIC and SPAN** (sans phosphate et avec phosphate)

Évaluation du danger : 1

Santé : 1
Inflammabilité : 0
Réactivité : 0

4 = EXTRÊME
3 = ÉLEVÉ
2 = MODÉRÉ
1 = LÉGER

Numéro de téléphone en cas d'urgence : 1 800 332-7787 ou appelez le centre antipoison de votre localité.

SECTION II – COMPOSITION ET INGRÉDIENTS

Ingrédients/Nom chimique : Agents de surface anioniques, adoucisseurs d'eau (carbonate de sodium, complexe de phosphates sodiques [version avec phosphate]), produit à blanchir au chlore en poudre, agent technologique [sulfate de sodium], agent de protection contre les particules métalliques [silicate de sodium])

Ce produit est un irritant oculaire léger en vertu de la norme de communication de la Occupational Safety and Health Administration (OSHA).

Ingrédients dangereux tels que définis par la OSHA, 29 CFR 1910.1200 et/ou la SIMDUT en vertu de la Loi sur les produits dangereux.

Nom chimique	Nom commun	N° de CAS	Limites recommandées	Écart de la composition chimique	DL50/CL50
Carbonate de sodium	Bicarbonate de soude	497-19-8	S.O.	15 à 40 % (O.P.) 10 à 25 % (PHOSPHORE)	DL50=1,86 g/kg CL50 = S.O.
Di-chloroisocyanurate de sodium dihydraté	Sodium DCC	2893-78-9	AGCY VLE 10 mg/m3 OSHA PEL 15mg/m3	10 à 15 %	DL50=735 mg/kg chez le rat
Alkyl benzène sulfonate linéaire	alkylsulfonate linéaire	68081-81-2	S.O.	15 à 30 %	DL50=0,65-1,26 g/kg CL50 = S.O.

SECTION III – IDENTIFICATION DES DANGERS

Dangers pour la santé (aigus et chroniques) :

Ingestion : L'ingestion du produit peut causer une irritation gastro-intestinale passagère provoquant nausées, vomissements et/ou diarrhée.

Contact avec les yeux : Peut causer une irritation passagère légère accompagnée d'une sensation de brûlure, des larmoiements, un prurit, de l'œdème et des rougeurs.

Inhalation : L'exposition intense ou prolongée à la poussière du produit peut causer une irritation passagère des voies respiratoires accompagnée de toux, de maux de gorge, de sifflement ou de dyspnée passagère.

SECTION IV – PREMIERS SOINS

Procédures d'urgence et de premiers soins :

Ingestion : Boire un ou deux grands verres d'eau. Si une quantité importante de produit est ingérée, consultez un médecin.

Contact avec les yeux : Rincer à grande eau pendant au moins 10 à 15 minutes.

Peau : Rincez abondamment avec de l'eau. Cesser l'emploi.

Inhalation : Quitter le lieu empoussiéré.

Autre : L'emballage du produit comporte un énoncé de risques : MISE EN GARDE : Peut causer une irritation des yeux/de la peau. Irritant oculaire : Éviter le contact avec les yeux. Ne pas mélanger avec d'autres produits nettoyants puisque des vapeurs irritantes pourraient être émises. Peut être irritant pour la peau. En cas de peau sensible ou de contact prolongé, le port de gants est recommandé. Dans le cas d'un contact avec les yeux ou la peau, rincer à grande eau pendant au moins 15 minutes. Si l'irritation persiste, consulter un médecin. TENIR HORS DE LA PORTÉE DES ENFANTS.

SECTION – RENSEIGNEMENTS CONCERNANT LES MOYENS D'EXTINCTION

Point d'éclair (méthode utilisée) : S.O. **Limites d'explosion :** *LIE :* S.O. *LES :* S.O.

Moyens d'extinction : CO_2, eau ou poudre extinctrice

Procédures spéciales d'extinction : Aucune connue

Risques d'incendie inhabituels : S.O.

SECTION VI – MESURES À PRENDRE EN CAS DE DÉVERSEMENT ACCIDENTEL

Précautions personnelles : S.O.

Précautions environnementales : ÉLIMINER CONFORMÉMENT AUX RÈGLEMENTS FÉDÉRAUX, PROVINCIAUX ET LOCAUX. Les solutions domestiques peuvent être évacuées dans l'égout. Le produit sec peut être enfoui si les règlements locaux le permettent. Jeter les contenants vides dans la poubelle.

Mesures à prendre en cas de fuite ou de déversement : Les petites quantités peuvent être progressivement évacuées dans les égouts appropriés (contient des surfactifs biodégradables). Éliminer conformément aux règlements applicables. Prévenir l'exposition intense à la poussière au moyen d'un appareil respiratoire approuvé par le NIOSH.

SECTION VII – MANUTENTION ET ENTREPOSAGE

Précautions à prendre pour la manutention et l'entreposage : Entreposer dans un lieu frais et sec. Éviter l'humidité pour éviter que les granules ne s'agglomèrent.

Autres précautions : Aucune

SECTION VIII – PROTECTION PERSONNELLE ET CONTRÔLE DE L'EXPOSITION AU PRODUIT

Protection des voies respiratoires (spécifier le type) : Aucune dans des conditions normales d'utilisation.

Ventilation : *Ventilation par aspiration à la source :* Aucune dans des conditions normales d'utilisation..
Spéciale : Aucune

Mécanique (générale) : Acceptable. *Autre :* Aucune

Protection des yeux : Non requise à l'usage normal.

Industrie manufacturière : Dans des conditions poussiéreuses ou si une éclaboussure est probable, des lunettes protectrices contre les agents chimiques pourraient s'avérer nécessaires.

Gants de protection : Non requis à l'usage normal.

Industrie manufacturière : Des gants de protection (caoutchouc, néoprène) s'imposent dans le cas des contacts directs prolongés.

Autre équipement de protection : Non requis à l'usage normal.

SECTION IX – PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

Point d'ébullition (°F) : S.O.

Densité (H_2O=1) : S.O.

Tension de vapeur (mm Hg) : S.O.

Pourcentage volatile au volume (%) : S.O.

Densité de vapeur (Air=1) : S.O.

Taux d'évaporation (nBuOAc=1) : S.O.

Seuil de l'odeur : S.O.

Point de congélation : S.O.

Coefficient de répartition eau-huile : S.O.

pH (solution 1 %) : environ10,9

Densité volumique : 0,4/en vase fermé (densité apparente)

Solubilité dans l'eau : Importante

Apparence et odeur : Poudre blanche avec granules verts à la senteur neutre

Alcalinité : 4,0 max

SECTION X – STABILITÉ ET RÉACTIVITÉ

Réactions/conditions dangereuses possibles : Aucune connue

Conditions à éviter : Aucune

Matériaux à éviter : Produits contenant de l'ammoniaque et acides

Produits de décomposition dangereux : Chlore gazeux

Autres recommandations : Aucune

Stabilité chimique : Stable

Polymérisation dangereuse : Impossible

SECTION XI – PROPRIÉTÉS TOXICOLOGIQUES

DL50 (ingestion chez le rat) : 2,9 g/kg

SECTION XII – INFORMATION ÉCOLOGIQUE

Aucune.

SECTION XIII – RÈGLEMENTS CONCERNANT L'ÉLIMINATION

Méthode d'élimination : ÉLIMINER CONFORMÉMENT AUX RÈGLEMENTS FÉDÉRAUX, PROVINCIAUX ET LOCAUX. Les petites quantités peuvent être évacuées dans l'égout. Le produit sec peut être enfoui. Jeter les contenants vides dans la poubelle.

SECTION XIV – INFORMATION CONCERNANT LE TRANSPORT

Classification DOT : Le produit fini est non-toxique selon le ministère des Transports (DOT).

SECTION XV – RENSEIGNEMENTS SUPPLÉMENTAIRES SUR LA RÈGLEMENTATION

Toutes les composantes figurent sur l'inventaire du TSCA. Les règles de la nouvelle utilisation importante ne modifie en aucun cas les composantes conformément à l'inventaire du TSCA §5.

Aucune des composantes du nettoyant avec javellisant Spic and Span n'est assujettie à la proposition 65 de la Californie.

Tous les ingrédients ont été approuvés par la LCPE et peuvent être importés au Canada par Procter & Gamble. Ce produit a été classé sous la catégorie Critères de risque du règlement canadien régissant les produits contrôlés et cette fiche signalétique contient toute l'information requise par ledit règlement.

SECTION XVI – AUTRES RENSEIGNEMENTS

*S.O. - Sans objet *INC. - Inconnu

La présentation de cette fiche signalétique est requise par la loi, mais ce n'est pas une affirmation que la substance est dangereuse lorsque celle-ci est utilisée en respectant les bonnes règles de sécurité et les méthodes de manutention normales. Les données fournies ne peuvent être utilisées que dans le cadre de la sécurité et de la santé au travail.

Les renseignements de la présente fiche ont été compilés à partir de sources considérées comme fiables par la société Procter & Gamble, et sont exacts à sa connaissance. Ces renseignements ne concernent que la matière désignée par la présente fiche et non son utilisation en combinaison avec toute autre matière ou tout autre procédé. Procter & Gamble n'est pas responsable des blessures infligées au destinataire ou à une tierce personne, ni d'aucun dommage à la propriété résultant d'une utilisation incorrecte de produit contrôlé.

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: OVEN & GRILL CLEANER

PRODUCT I.D. NUMBER (PIN): 1719

PRODUCT NUMBER: 02806FS

WHMIS CLASS: E; D2B

PRODUCT USE: Oven and grill cleaner

DOT HAZARD CLASS: Corrosive Material

COMPANY:

Essential Industries, Inc.
P.O. Box 12
Merton, WI 53056-0012

DOT SHIPPING NAME:

Caustic Alkali Liquid, N.O.S.
(Potassium hydroxide, Sodium metasilicate)
8, UN1719, PGIII

EMERGENCY PHONE: 800-843-6174

H.M.I.S.

3	HEALTH	HAZARD RATING
0	FIRE	4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
1	REACTIVITY	
C	MAXIMUM PERSONAL PROTECTION	

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

ABBREVIATION KEY: N.A. - Not Applicable N.E. = Not Established N.D. = Not Determined

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	%	PEL	TLV	LD50	LC50
Water	7732-18-5	60-100	N.E.	N.E.	N.D.	N.D.
Potassium hydroxide	1310-58-3	5-10	2mg/m³	2mg/m³	365mg/kg	N.D.
Sodium metasilicate	6834-92-0	1-5	2mg/m³	2mg/m³	847mg/kg	N.D.
Surfactants	N.A.	10-30	N.E.	N.E.	N.D.	N.D.

This mixture does not contain components which are subject to the reporting requiements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372.

SECTION 3 - PHYSICAL DATA

Color: Purple
Odor: Bland
Physical State: Liquid
Solubility in Water: Complete
Boiling Point: 100°C (212°F)
Freezing Point: 0°C (32°F)
Water/Oil Distribution: N.E.
Odor Threshold: N.E.
Vapor Pressure: <30 mm of Hg
Vapor Density (Air=1): <1
Evaporation Rate (Water=1): N.E.
VOC Content: 0.0%
pH: 13.0 - 14.0
1% pH: 11.8
Specific Gravity: 1.10 gm/ml
Weight per Gallon: 9.19 lbs./gal.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: N.A.
Autoignition Temperature: N.A.
Extinguishing Media: Use dry chemical or CO2.
Flammable Limits: N.A.
LEL: N.A. **UEL:** N.A.
Special Fire Fighting Procedures: Use proper protective equipment.
Hazardous Combustion Products: N.A.
Unusual Fire and Explosion Hazards: None.

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable.
Hazardous decomposition of By-Products: None known.
Incompatibility (Materials to Avoid): Acids, aluminum and other soft metals.
Hazardous Polymerization: Will not occur.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion. Inhalation. Skin contact. Eye contact.
Sensitization: No.
Toxicologically Synergistic Products: None known.
Medical Conditions Aggravated by Exposure: None known.

EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):

Eyes: May cause severe irritation, redness, burns and possible corneal injury.

Skin: May cause severe irritation, redness, burns.

Ingestion: May cause severe irritation or burning of gastrointestinal tract and possible mucosal injury.

Inhalation: May irritate respiratory tract when used with inadequate ventilation.

Carcinogenic Effects: NO carcinogenic effect.
Mutagenic Effects: NO mutagenic effect.
Teratogenic Effects: NO teratogenic effect.
Reproductive Toxicity: NO reproductive toxicity effect.

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None normally required with adequate ventilation.
Ventilation: Local Exhaust: Acceptable Mechanical: Recommended
Protective Gloves: Rubber/Neoprene.
Eye Protection: Chemical splash goggles.
Protective Clothing and Equipment: Full cover clothing - rubber apron.
Work and Hygienic Practices: After handling, always wash hands thoroughly with soap and water.
Storage Requirements: Store in cool, dry area. Follow good housekeeping practices.
Other Requirements: Keep out of reach of children.

Steps to be Taken if Material is Spilled or Released: Collect and reuse if possible. Dilute and flush to sewer with large quantities of water if permitted by regulatory authorities or absorb on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways.

Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities.

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

FIRST AID - NOTES TO PHYSICIAN:

Eyes: Flush with a large amount of water for 30 minutes holding eyelids open. Seek medical attention.

Skin: Remove contaminated clothing and footwear. Flood/shower with water for 30 minutes.

Ingestion: Rinse mouth with water. Give 2-3 large glasses of water. Do not induce vomiting. Seek medical attention.

Inhalation: Remove to fresh air and rest. In all cases if symptoms persist, seek medical attention.

Note to Physician: No additional information.

SECTION 9 - PREPARATION INFORMATION

Prepared By: Regulatory Affairs Department **Phone:** 262-538-1122 **Date of Preparation:** **1/1/2005.**

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: OVEN & GRILL CLEANER

PRODUCT I.D. NUMBER (PIN): 1719

PRODUCT NUMBER: 02806FS

WHMIS CLASS: E; D2B

PRODUCT USE: Oven and grill cleaner

DOT HAZARD CLASS: Corrosive Material

COMPANY:

Essential Industries, Inc.
P.O. Box 12
Merton, WI 53056-0012

DOT SHIPPING NAME:

Caustic Alkali Liquid, N.O.S.
(Potassium hydroxide, Sodium metasilicate)
8, UN1719, PGIII

EMERGENCY PHONE: 800-843-6174

H.M.I.S.

3	HEALTH	HAZARD RATING
0	FIRE	4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
1	REACTIVITY	
C	MAXIMUM PERSONAL PROTECTION	

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

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HAZARDOUS CHEMICAL IDENTITY	CAS NO.	%	PEL	TLV	LD50	LC50
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Potassium hydroxide	1310-58-3	5-10	2mg/m³	2mg/m³	365mg/kg	N.D.
Sodium metasilicate	6834-92-0	1-5	2mg/m³	2mg/m³	847mg/kg	N.D.
Surfactants	N.A.	10-30	N.E.	N.E.	N.D.	N.D.

This mixture does not contain components which are subject to the reporting requiements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372.

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Odor: Bland
Physical State: Liquid
Solubility in Water: Complete
Boiling Point: 100°C (212°F)
Freezing Point: 0°C (32°F)
Water/Oil Distribution: N.E.
Odor Threshold: N.E.
Vapor Pressure: <30 mm of Hg
Vapor Density (Air=1): <1
Evaporation Rate (Water=1): N.E.
VOC Content: 0.0%
pH: 13.0 - 14.0
1% pH: 11.8
Specific Gravity: 1.10 gm/ml
Weight per Gallon: 9.19 lbs./gal.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: N.A.
Autoignition Temperature: N.A.
Extinguishing Media: Use dry chemical or CO2.
Flammable Limits: N.A.
LEL: N.A. **UEL:** N.A.
Special Fire Fighting Procedures: Use proper protective equipment.
Hazardous Combustion Products: N.A.
Unusual Fire and Explosion Hazards: None.

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable.
Hazardous decomposition of By-Products: None known.
Incompatibility (Materials to Avoid): Acids, aluminum and other soft metals.
Hazardous Polymerization: Will not occur.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion. Inhalation. Skin contact. Eye contact.
Sensitization: No.
Toxicologically Synergistic Products: None known.
Medical Conditions Aggravated by Exposure: None known.

EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):

Eyes: May cause severe irritation, redness, burns and possible corneal injury.

Skin: May cause severe irritation, redness, burns.

Ingestion: May cause severe irritation or burning of gastrointestinal tract and possible mucosal injury.

Inhalation: May irritate respiratory tract when used with inadequate ventilation.

Carcinogenic Effects: NO carcinogenic effect.
Mutagenic Effects: NO mutagenic effect.
Teratogenic Effects: NO teratogenic effect.
Reproductive Toxicity: NO reproductive toxicity effect.

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None normally required with adequate ventilation.
Ventilation: Local Exhaust: Acceptable Mechanical: Recommended
Protective Gloves: Rubber/Neoprene.
Eye Protection: Chemical splash goggles.
Protective Clothing and Equipment: Full cover clothing - rubber apron.
Work and Hygienic Practices: After handling, always wash hands thoroughly with soap and water.
Storage Requirements: Store in cool, dry area. Follow good housekeeping practices.
Other Requirements: Keep out of reach of children.

Steps to be Taken if Material is Spilled or Released: Collect and reuse if possible. Dilute and flush to sewer with large quantities of water if permitted by regulatory authorities or absorb on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways.

Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities.

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

FIRST AID - NOTES TO PHYSICIAN:

Eyes: Flush with a large amount of water for 30 minutes holding eyelids open. Seek medical attention.

Skin: Remove contaminated clothing and footwear. Flood/shower with water for 30 minutes.

Ingestion: Rinse mouth with water. Give 2-3 large glasses of water. Do not induce vomiting. Seek medical attention.

Inhalation: Remove to fresh air and rest. In all cases if symptoms persist, seek medical attention.

Note to Physician: No additional information.

SECTION 9 - PREPARATION INFORMATION

Prepared By: Regulatory Affairs Department **Phone:** 262-538-1122 **Date of Preparation:** **1/1/2005.**

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION AND USE

Product Name Softsoap Liquid Hand Soap **Product Use** Liquid Hand Soap **Whmis Classification:** NCP

Supplier's Name Colgate-Palmolive Canada Inc. **Address:** Two Morneau Sobeco Centre, 6th Floor
895 Don Mills Road, Toronto, Ontario M3C 1W3

Telephone No.: (416) 421-6000 **Emergency Contacts:** Check your local Poison Control Centre in your telephone white pages.

SECTION II - PREPARATION OF MSDS

PREPARED BY: Technical Services PHONE: (416) 421-6000 DATE: January 1, 2007

N/A = Not Applicable; **N/E** = Not Established/Available

SECTION III - HAZARDOUS INGREDIENTS

Hazardous Ingredient	Concentration Range %	C.A.S. or U.N. Number	Exposure Limits	LD_{50}/LC_{50} Specify Species and Route
N/A				

SECTION IV - PHYSICAL DATA

Physical State	Odour and Appearance	Odour Threshold	Specific Gravity	Vapour Pressure
Liquid	Various scents and colours	N/E	1.07(20°/20° C)	N/E

Vapour Density	Evaporation Rate	Boiling Point	Freezing Point	pH	Coefficient of Water/Oil Distribution
N/E	N/E	N/E	N/E	6.0 - 6.5	N/E

SECTION V - FIRE OR EXPLOSION HAZARD

Flammable: **Yes ( ) No (X)** **If yes, under which conditions:**

Means of Extinction: If involved in fire, use water, dry alcohol type or all purpose foam, dry chemical, carbon dioxide or other Class B extinguishing agents.

Flashpoint and Method	Upper Flammable Limit	Lower Flammable Limit	Auto-ignition Temperature
N/E	N/E	N/E	N/E

Hazardous Combustion Products: Carbon Monoxide, Sulphur Dioxide, Oxides of Nitrogen

Explosion Data Sensitivity To Mechanical Impact N/E

Explosion Data Sensitivity To Static Charge N/E

SECTION VI - REACTIVITY DATA

Chemical Instability: **Yes ( ) No (X)** **If yes, under which conditions?**

Incompatibility To Other Substances: **Yes ( ) No (X)** **If yes, which ones?**

Reactivity: **Yes ( ) No (X)** **If yes, under which conditions?**

Hazardous Decomposition Products: None known

SECTION VII - TOXICOLOGICAL PROPERTIES OF PRODUCT This product has not been tested as a whole.

Routes of Entry: **Skin Contact X** **Skin Absorption** **Eye Contact X** **Inhalation** **Ingestion X**

Effects of Acute Exposure To Product:

Skin Contact: No evidence of dermal toxicity Skin Absorption N/A

Eye Contact: Contact with eye can produce conjunctival irritation. Inhalation: N/A

Ingestion: May cause vomiting with persistant, unpleasant aftertaste.

MATERIAL SAFETY DATA SHEET

Product Name Softsoap Liquid Hand Soap

SECTION VII - TOXICOLOGICAL PROPERTIES OF PRODUCT This product has not been tested as a whole.

Effects of Chronic Exposure To Product: N/E

LD_{50} of Product (Specify Species and Route) N/E **LC_{50} of Product (Specify Species)** N/A

Exposure Limits	Irritancy of Product	Sensitization of Product	Carcinogenicity
N/E	N/E	N/E	N/E

Reproductive Toxicity	Teratogenicity	Mutagenicity	Synergistic Materials
N/E	N/E	N/E	N/E

SECTION VIII - PREVENTATIVE MEASURES

Personal Protective Equipment: Rubber or Plastic Gloves, Goggles or Safety Glasses, Protective Clothing

Engineering Controls: Safety Showers and Eyewash Fountains should be available. The product should be used in a well ventilated area.

Leak and Spill Procedures: Rinse with water

Waste Disposal: Dispose in accordance with Federal, Provincial and Local regulations.

Handling Procedures and Equipment: Follow routine safe handling procedures. Avoid contact when handling.

Storage Requirements: Store in suitably labeled containers. Keep containers tightly closed. Protect from damage. Store in a cool, dry, well-ventilated area, out of direct sunlight.

Special Shipping Instruction: None

SECTION IX - TRANSPORTATION OF DANGEROUS GOODS

TDG Regulated Product: **Yes** ( ) **No** (X) **Product TDG or CFR 49 Shipping Name (If CFR so indicate)** N/A

PIN Number: N/A **Packaging Group** N/A

SECTION X - FIRST AID MEASURES

Skin: Flush the contact area well with lukewarm running water for at least 15 minutes. If irritation persists, call a physician.

Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm water, holding the eyelid open. Take care not to rinse contaminated water into the non-affected eye. Always seek medical attention for eye injuries.

Inhalation: N/A

Ingestion: If swallowed drink 3 - 4 glasses of water. DO NOT INDUCE VOMITING. Call a physician.

This product is labeled in accordance with the requirements of the Hazardous Products Act and/or the Pest Control Products Act in that the use pattern and exposure in the workplace is generally consistent with that experienced by consumers. In certain respects, the requirements of the Workplace Hazardous Materials Information System applicable to the drafting of this Material Safety Data Sheet may differ from the requirements of those acts and regulations and as a result, this MSDS may contain additional information to that found on the label.

Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the safety and suitability of each such product for their particular purposes.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 491705 MANGO**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Acetone	67-64-1	500ppm
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 $\pm$ 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear/mango scent	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 491705

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 491655 TROPICAL NECTAR**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Acetone	67-64-1	500ppm
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 $\pm$ 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear/tropical scent	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 491655

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 491805 PEACH KIWI**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Acetone	67-64-1	500ppm
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 $\pm$ 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear/peach kiwi scent	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 491805

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **NEUTRAZEN Natural Scents (Hand Held Cans)**

491153 Cinnamon	**491075 Fruit Basket**	**491355 Pina Colada**
491105 Citrus Creme	**491255 Green Apple**	**491305 Powder Fresh**
491325 Citrus Peel	**491455 Mango**	**491055 Tropical Nectar**
491235 Cranberry Spice	**491155 Orchard Spice**	**491205 Vanilla Delight**
491123 Fresh Linen	**491405 Peach Kiwi**	

Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Dimethyl Ketal	67-64-1	500ppm
Isobutane	75-28-5	Not established
Propane	74-98-6	2500ppm
Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 ± 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information.

491153,491105,491325,491235,491123,491075,491255,491455,491155,491405,491355,491305,491055, 491205

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **NEUTRAZEN Natural Scents (Hand Held Cans)**

491153 Cinnamon	**491075 Fruit Basket**	**491355 Pina Colada**
491105 Citrus Creme	**491255 Green Apple**	**491305 Powder Fresh**
491325 Citrus Peel	**491455 Mango**	**491055 Tropical Nectar**
491235 Cranberry Spice	**491155 Orchard Spice**	**491205 Vanilla Delight**
491123 Fresh Linen	**491405 Peach Kiwi**	

Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Dimethyl Ketal	67-64-1	500ppm
Isobutane	75-28-5	Not established
Propane	74-98-6	2500ppm
Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 ± 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information.

491153,491105,491325,491235,491123,491075,491255,491455,491155,491405,491355,491305,491055, 491205

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **NEUTRAZEN Natural Scents (Hand Held Cans)**

491153 Cinnamon	**491075 Fruit Basket**	**491355 Pina Colada**
491105 Citrus Creme	**491255 Green Apple**	**491305 Powder Fresh**
491325 Citrus Peel	**491455 Mango**	**491055 Tropical Nectar**
491235 Cranberry Spice	**491155 Orchard Spice**	**491205 Vanilla Delight**
491123 Fresh Linen	**491405 Peach Kiwi**	

Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Dimethyl Ketal	67-64-1	500ppm
Isobutane	75-28-5	Not established
Propane	74-98-6	2500ppm
Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 ± 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

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491153,491105,491325,491235,491123,491075,491255,491455,491155,491405,491355,491305,491055, 491205

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **NEUTRAZEN Natural Scents (Hand Held Cans)**

491153 Cinnamon	**491075 Fruit Basket**	**491355 Pina Colada**
491105 Citrus Creme	**491255 Green Apple**	**491305 Powder Fresh**
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491235 Cranberry Spice	**491155 Orchard Spice**	**491205 Vanilla Delight**
491123 Fresh Linen	**491405 Peach Kiwi**	

Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Dimethyl Ketal	67-64-1	500ppm
Isobutane	75-28-5	Not established
Propane	74-98-6	2500ppm
Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 ± 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
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INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **NEUTRAZEN Natural Scents (Hand Held Cans)**

491153 Cinnamon	**491075 Fruit Basket**	**491355 Pina Colada**
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Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Dimethyl Ketal	67-64-1	500ppm
Isobutane	75-28-5	Not established
Propane	74-98-6	2500ppm
Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 ± 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

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KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

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Waste Disposal Method:

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SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

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Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

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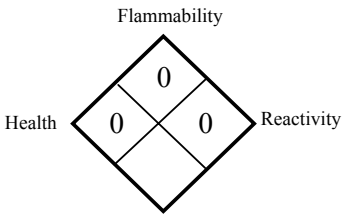
WALTER
Surface Technologies

MATERIAL SAFETY DATA SHEET
L-82E

NFPA Hazard Rating



0 = Minimum 1 = Light 2 = Moderate 3 = Serious 4 = Extreme

Section 1 - Product Identification

Bio-Chem Surface Technology
5977 Transcanada Highway
Pointe-Claire, Quebec
H9R 1C1
Emergency: CANUTEC (613) 996-6666

Trade name: **Gold Matrix All Purpose**
Product name: Industrial cleaner/degreaser
Order no.: 53-G 603, 53-G 607, 53-G608
WHMIS Classification: Non-hazardous
Controlled under WHMIS: No

Section 2 - Hazardous Ingredients

Ingredients	CAS Number	% by Weight	LD50RAT	LC50RAT

No hazardous substances to declare.

Section 3 - Physical / Chemical Characteristics

Physical state: Liquid
pH: 12
Specific gravity: 1.00 g/ml @ 20ºC
Evaporation rate: N/Av

Odour & appearance: Lavender, blue
Boiling point: 98ºC
Vapour pressure: N/Av
VOC g/l: N/Av

Odour threshold: None
Freezing point: 0ºC
Vapour density: N/Av
Water solubility: Soluble

Section 4 - Fire & Explosion Hazard

Flammability: No ***Conditions:*** *None*
Flashpoint: N/A
Auto ignition temperature: N/A
Flammable limits (%): Upper: N/A Lower: N/A

Extinguishing media: None
Hazardous combustion products: None
Sensitivity to mechanical impact or static discharge: No

Section 5 - Reactivity Data

Chemical stability: Yes
Conditions: *None*
Incompatible substances: Do not mix with other chemicals.
Hazardous decomposition products: None

Reactivity conditions: None

N/A - Not Applicable **N/Av - Not Available**

Section 6 - Toxicological Data

Route of entry: Eye and skin contact, ingestion.
Acute exposure effects: None
Chronic exposure effects: None
Exposure limits (TLV/TWA): N/Av

Carcinogenicity	Mutagenicity	Reproductive toxicity	Teratogenicity	Synergistic effects
No	No	No	No	No

If yes to any of the above, specify:

Section 7 - Preventive Measures

Protective equipment: Gloves in case of prolonged contact.
Handling procedures: Keep container tightly closed.
Waste disposal methods: Dispose as per municipal, provincial and federal regulations.
Leak/spill procedures: Soak up with absorbent material. Rinse small amount with quantity of water. Neutralize.
Storage requirements: Store below 50ºC and above 0ºC. Keep upright.
Engineering controls: None
Handling equipment: None
Special shipping information:

Section 8 - First Aid Measures

Skin contact: Wash off with water and soap. Apply cream.
Eye contact: Rinse eyes thoroughly with water. Consult a physician.
Inhalation: N/A
Ingestion: Do not induce vomitting. Rinse mouth with water and give plenty of water to drink.
Other: Consult a physician.

Section 9 - Preparation of MSDS

Prepared by: Division Manager WCB
Telephone: (514) 733-3315
Date: June 21th, 2007

This data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to bee generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

N/A - Not Applicable **N/Av - Not Available**

Atlantic Chemical Equipment Co.
3471 Atlanta Industrial Parkway
Suite 200
Atlanta, GA 30331
404-505-6626

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: (CCL) NON-RINSE EVAPORATOR COIL CLEANER

EMERGENCY PHONE: 1-800-424-9300

May be used to comply with OSHA'S Hazard Communications Standard (HSC) 29 CRF 1910, 1200.
Standard must be consulted for specific requirements. This product contains no substances subject to SARA TITLE III and 40 CRF.

HMIS SYMBOLS

HEALTH	**1**
FLAMMABILITY	**0**
REACTIVITY	**0**

1 - IDENTIFICATION

PRODUCT NAME: CCL - EVAPORATOR COIL CLEANER	PACKAGE TYPE: 16oz, 1, 5, 55 gal
PREPARED DEPARTMENT OF HAZARDOUS COMMUNICATIONS	DATE PREPARED: January 2006

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S) (CHEMICAL NAMES)	CAS NO	ACGIH TLV	OSHA PEL	% or RANGE
Sodium Silicate	6824-92-0	ND	ND	
2-Butoxyethanol*	111-76-2	25ppm	25ppm	

*2-Butyloxyethanol is a TITLE III Section 313 Chemical subject to reporting; a listed air contaminate with skin designation.

III - PHYSICAL DATA

BOILING POINT (^{0}F) : ND	SPECIFIC GRAVITY (H_20= 1) : 1.062
VAPOR PRESSURE (mm Hg) : ND	MELTING POINT: N.A.
VAPOR DENSITY (Air = 1) : ND	EVAPORATION RATE (H_20 = 1) : ND
pH : 13.0	APPEARANCE AND ODOR : Clear green liquid. Bland odor
SOLUBILITY IN WATER : Complete	

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: Not Flammable

SPECIAL FIRE FIGHTING PROCEDURES: None known

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

V - REACTIVITY DATA

CHEMICAL STABILITY	UNSTABLE		**CONDITIONS TO AVOID:**
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): Oxidizers or acids

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	X	

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: **EYES** Yes **SKIN** Yes **INGESTION** Yes **INHALATION** Yes

EFFECTS OF OVER EXPOSURE: Corrosive to eyes, skin, and mucous membranes

INHALATION: Irritation of nasal passages. Possible light headedness.

SKIN CONTACT/ABSORPTION: Causes burning and irritation. 2-butoxyethanol enters bloodstream through skin absorption.

INGESTION: causes nausea - gastric distress. Possible pulmonary edema if aspiration of material in lungs occurs while vomiting.

EYES: Will cause burning and severe irritation.

CARCINOGENICITY: **NTP?** Not listed **IARC MONOGRAPHS?** N/L **OSHA REGULATED?** Not listed

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: **EYES** - Wash with plenty of water for 15 minutes. GET IMMEDIATE MEDICAL ATTENTION. **SKIN** - Wash well with soap and water. Get medical help if irritation persists. If nausea occurs seek medical help.

INHALATION: Move to fresh air. If breathing difficulty does not improve seek medical attention.

INGESTION: Drink water. Do not cause vomiting. GET IMMEDIATE MEDICAL ATTENTION. CALL POISON CONTROL CENTER.

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:
SMALL SPILLS: Dilute and wash to drain.
LARGE SPILLS: Due to packaging, large spills cannot occur.

WASTE DISPOSAL METHOD: Deposit in approved hazardous waste landfill in accordance with local, state, and federal regulations.

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: Wear approved mist respirator for mist conditions or in enclosed areas.

EYE: Chemical goggles recommended.

SKIN: Wear impervious gloves, apron, boots. **PROTECTIVE GLOVES:** Recommended Butyl/alkaline resistant

OTHER: do not eat, drink, or smoke in work area. Wash hands before eating.

VENTILATION REQUIREMENTS: Local exhaust adequate

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed when not in use.

SPECIAL PRECAUTIONARY STATEMENTS: Keep this and all chemicals out of reach of children.

NOTICE: We believe that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, expressed or implied, of merchantability fitness or otherwise is made.

SARA Title III Reporting Requirements

302	(Extremely Hazardous Substances): **Reporting not required.**
304/CERCLA	(Spills Notification): **Not required.**
311	Community Right-To-Know, RTK): **Reporting required. Acute health hazard.**
312	(RTK Inventory Data): **Reporting required for inventories above TPQ.**
313	(Emissions and Releases): **Reporting required for 2-Butoxyethanol above RQ.**
DOT	NOT HAZARDOUS

References

TOXIC SUBSTANCE CONTROL CT LIST (TSCA) - INGREDIENTS LISTED

PERMISSIBLE EXPOSURE REFERENCES:

Registry of Toxic Effects of Chemical Substances.
Title 29 Code of Federal Regulations.
National Toxicology Program (NTP) Report on Carcinogens.
International Agency for Research on Cancer (IARC) Monographs.
Title 40 Code of Federal Regulations

REGULATORY STANDARDS:

DOT Title 49 Code of Federal Regulations 172.101
SARA Title III

Nuclear Regulatory Commission

Atlantic Chemical Equipment Co.
3471 Atlanta Industrial Parkway
Suite 200
Atlanta, GA 30331
404-505-6626

MATERIAL SAFETY DATA SHEET

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HEALTH	**1**
FLAMMABILITY	**0**
REACTIVITY	**0**

1 - IDENTIFICATION

PRODUCT NAME: CCL - EVAPORATOR COIL CLEANER	PACKAGE TYPE: 16oz, 1, 5, 55 gal
PREPARED DEPARTMENT OF HAZARDOUS COMMUNICATIONS	DATE PREPARED: January 2006

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S) (CHEMICAL NAMES)	CAS NO	ACGIH TLV	OSHA PEL	% or RANGE
Sodium Silicate	6824-92-0	ND	ND	
2-Butoxyethanol*	111-76-2	25ppm	25ppm	

*2-Butyloxyethanol is a TITLE III Section 313 Chemical subject to reporting; a listed air contaminate with skin designation.

III - PHYSICAL DATA

BOILING POINT (^{0}F) : ND	SPECIFIC GRAVITY (H_20= 1) : 1.062
VAPOR PRESSURE (mm Hg) : ND	MELTING POINT: N.A.
VAPOR DENSITY (Air = 1) : ND	EVAPORATION RATE (H_20 = 1) : ND
pH : 13.0	APPEARANCE AND ODOR : Clear green liquid. Bland odor
SOLUBILITY IN WATER : Complete	

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: Not Flammable

SPECIAL FIRE FIGHTING PROCEDURES: None known

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

V - REACTIVITY DATA

CHEMICAL STABILITY	UNSTABLE		**CONDITIONS TO AVOID:**
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): Oxidizers or acids

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	X	

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: **EYES** Yes **SKIN** Yes **INGESTION** Yes **INHALATION** Yes

EFFECTS OF OVER EXPOSURE: Corrosive to eyes, skin, and mucous membranes

INHALATION: Irritation of nasal passages. Possible light headedness.

SKIN CONTACT/ABSORPTION: Causes burning and irritation. 2-butoxyethanol enters bloodstream through skin absorption.

INGESTION: causes nausea - gastric distress. Possible pulmonary edema if aspiration of material in lungs occurs while vomiting.

EYES: Will cause burning and severe irritation.

CARCINOGENICITY: **NTP?** Not listed **IARC MONOGRAPHS?** N/L **OSHA REGULATED?** Not listed

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: **EYES** - Wash with plenty of water for 15 minutes. GET IMMEDIATE MEDICAL ATTENTION. **SKIN** - Wash well with soap and water. Get medical help if irritation persists. If nausea occurs seek medical help.

INHALATION: Move to fresh air. If breathing difficulty does not improve seek medical attention.

INGESTION: Drink water. Do not cause vomiting. GET IMMEDIATE MEDICAL ATTENTION. CALL POISON CONTROL CENTER.

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:
SMALL SPILLS: Dilute and wash to drain.
LARGE SPILLS: Due to packaging, large spills cannot occur.

WASTE DISPOSAL METHOD: Deposit in approved hazardous waste landfill in accordance with local, state, and federal regulations.

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: Wear approved mist respirator for mist conditions or in enclosed areas.

EYE: Chemical goggles recommended.

SKIN: Wear impervious gloves, apron, boots. **PROTECTIVE GLOVES:** Recommended Butyl/alkaline resistant

OTHER: do not eat, drink, or smoke in work area. Wash hands before eating.

VENTILATION REQUIREMENTS: Local exhaust adequate

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed when not in use.

SPECIAL PRECAUTIONARY STATEMENTS: Keep this and all chemicals out of reach of children.

NOTICE: We believe that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, expressed or implied, of merchantability fitness or otherwise is made.

SARA Title III Reporting Requirements

302	(Extremely Hazardous Substances): **Reporting not required.**
304/CERCLA	(Spills Notification): **Not required.**
311	Community Right-To-Know, RTK): **Reporting required. Acute health hazard.**
312	(RTK Inventory Data): **Reporting required for inventories above TPQ.**
313	(Emissions and Releases): **Reporting required for 2-Butoxyethanol above RQ.**
DOT	NOT HAZARDOUS

References

TOXIC SUBSTANCE CONTROL CT LIST (TSCA) - INGREDIENTS LISTED

PERMISSIBLE EXPOSURE REFERENCES:

Registry of Toxic Effects of Chemical Substances.
Title 29 Code of Federal Regulations.
National Toxicology Program (NTP) Report on Carcinogens.
International Agency for Research on Cancer (IARC) Monographs.
Title 40 Code of Federal Regulations

REGULATORY STANDARDS:

DOT Title 49 Code of Federal Regulations 172.101
SARA Title III

Nuclear Regulatory Commission

Atlantic Chemical Equipment Co.
2190 DeFoor Hills Rd NW
Atlanta, GA 30318
404-355-5522

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HEAVY DUTY COIL CLEANER (HDC)

EMERGENCY PHONE: 1-800-424-9300

May be used to comply with OSHA'S Hazard Communications Standard (HSC) 29 CRF 1910, 1200.
Standard must be consulted for specific requirements. This product contains no substances subject to SARA TITLE III and 40 CRF.

HMIS SYMBOLS

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

1 - IDENTIFICATION

PRODUCT NAME: (HDC) HEAVY DUTY COIL CLEANER	PACKAGE TYPE: 16oz, 1, 5, 55gallon
PREPARED DEPARTMENT OF HAZARDOUS COMMUNICATIONS	DATE PREPARED: June 2003

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S) (CHEMICAL NAMES)	CAS NO	ACGIH TLV	OSHA PEL	% or RANGE
Caustic Potash (Potassium Hydroxide)	1310-58-3	2 mg/m3	2 mg/m3	<2
Hexylene Glycol	107-41-5	26 ppm		>4
Triethanolamine	102-71-6	N/E	N/E	>1
Sodium Metasilicate	6834-92-0	N/E	N/E	>2

III - PHYSICAL DATA

BOILING POINT (^{0}F) : 2120F	SPECIFIC GRAVITY (H_20= 1) : 1.12
VAPOR PRESSURE (mm Hg) : 17	MELTING POINT: N/D
VAPOR DENSITY (Air = 1) : 1.0	EVAPORATION RATE (H_20 = 1) :
pH : 13.5	APPEARANCE AND ODOR : Clear yellow liquid - Slight glycol odor
SOLUBILITY IN WATER : Complete	

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: Non-Flammable

SPECIAL FIRE FIGHTING PROCEDURES: Wear impervious gear to prevent all contact

UNUSUAL FIRE AND EXPLOSION HAZARDS:

V - REACTIVITY DATA

CHEMICAL STABILITY	UNSTABLE		**CONDITIONS TO AVOID:**
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): Acids, acid products, oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Heat, Carbon Monoxide, Carbon Dioxide

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	X	

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: **EYES** Yes **SKIN** Yes **INGESTION** Yes **INHALATION** Yes

EFFECTS OF OVER EXPOSURE: Corrosive to eyes and mucous membranes

INHALATION: Mists are irritating to nasal passages

SKIN CONTACT/ABSORPTION: Irritation, redness

INGESTION: Gastric distress. Corrosive to digestive tract. May cause central nervous system depression

EYES: Burning, irritation, redness. Corrosive to eyes.

CARCINOGENICITY: **NTP?** Not listed **IARC MONOGRAPHS?** Not listed **OSHA REGULATED?** Not listed

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: **EYES -** Wash eyes with plenty of water for 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION **SKIN -** Wash well with soap and water. SEEK MEDICAL ATTENTION if irritation persists

INHALATION: Remove to fresh air. If breathing is difficult SEEK IMMEDIATE MEDICAL ATTENTION

INGESTION: Drink water. DO NOT induce vomiting. SEEK IMMEDIATE MEDICAL ATTENTION. CALL POISON CONTROL CENTER

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:
SMALL SPILLS: Neutralize with vinegar and flush to sanitary sewer.
LARGE SPILLS: Due to packaging, large spills can not occur.

WASTE DISPOSAL METHOD: Deposit in landfill in accordance with Local, State, and Federal regulations.

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: Needed to keep exposure below TLV for mists. Use NIOSH approved cartridge type respirator for mists.

EYE: Chemical goggles recommended

SKIN: Avoid contact with eyes, skin, and clothing. Wash hands and face thoroughly after handling. **PROTECTIVE GLOVES:** Recommended. Chemical resistant rubber or plastic gloves.

OTHER: Rubber of PVC footwear, apron in misty conditions.

VENTILATION REQUIREMENTS: Local exhaust adequate.

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed when not in use. Do not store in aluminum drums and separate from acids.

SPECIAL PRECAUTIONARY STATEMENTS: Keep this and all chemicals out of reach of children.

NOTICE: We believe that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, expressed or implied, of merchantability fitness or otherwise is made.

SARA Title III Reporting Requirements

302	(Extremely Hazardous Substances): **Reporting not required.**
304/CERCLA	(Spills Notification): **Reporting required for spills above 1000 lbs.**
311	Community Right-To-Know, RTK): **Reporting required. Acute & chronic health hazard, corrosive & toxic**
312	(RTK Inventory Data): **Reporting required for above TPQ.**
313	(Emissions and Releases): **Reporting not required.**
DOT	Corrosive liquid, basic, inorganic, N.O.S. (contains potassium hydroxide) 8, UN3264, PGIII

References

TOXIC SUBSTANCE CONTROL CT LIST (TSCA) - INGREDIENTS LISTED
PERMISSIBLE EXPOSURE REFERENCES:
Registry of Toxic Effects of Chemical Substances.
Title 29 Code of Federal Regulations.
National Toxicology Program (NTP) Report on Carcinogens.
International Agency for Research on Cancer (IARC) Monographs.
Title 40 Code of Federal Regulations
REGULATORY STANDARDS:
DOT Title 49 Code of Federal Regulations 172.101
SARA Title III
Nuclear Regulatory Commission

Atlantic Chemical Equipment Co.
2190 DeFoor Hills Rd NW
Atlanta, GA 30318
404-355-5522

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ALKALINE COIL CLEANER (ACC)

EMERGENCY PHONE: 1-800-424-9300

May be used to comply with OSHA'S Hazard Communications Standard (HSC) 29 CRF 1910, 1200.
Standard must be consulted for specific requirements. This product contains no substances subject to SARA TITLE III and 40 CRF.

HMIS SYMBOLS

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0

1 - IDENTIFICATION

PRODUCT NAME: Alkaline Coil Cleaner (ACC)	PACKAGE TYPE: Pint, Gallon, Pail, or Drum
PREPARED DEPARTMENT OF HAZARDOUS COMMUNICATIONS	DATE PREPARED: June 2003

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S) (CHEMICAL NAMES)	CAS NO	ACGIH TLV	OSHA PEL	% or RANGE
Caustic Soda (Sodium Hydroxide)* * listed air contaminate (see 29 CFR per 1910.1000)	1310-73-2	2mg/m^3	2mg/m^3	< 17

III - PHYSICAL DATA

BOILING POINT (^{0}F) : 212^{0}F	SPECIFIC GRAVITY (H_20= 1) : 1.18
VAPOR PRESSURE (mm Hg) : N/D	MELTING POINT: N/A
VAPOR DENSITY (Air = 1) : 1	EVAPORATION RATE (H_20 = 1) : > 1
pH : 13.5	APPEARANCE AND ODOR : Clear liquid - slight ester odor
SOLUBILITY IN WATER : Complete	

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: Flash Point: None

SPECIAL FIRE FIGHTING PROCEDURES: Flood with water; compound is corrosive to exposed skin, wear protective clothing

UNUSUAL FIRE AND EXPLOSION HAZARDS: May react with oxidizers

CHEMICAL STABILITY	UNSTABLE		**CONDITIONS TO AVOID:**
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): Acids and acids products. Soft metals. Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, Heat, Carbon Monoxide

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	X	

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: **EYES** Yes | **SKIN** Yes | **INGESTION** Yes | **INHALATION** Yes

EFFECTS OF OVER EXPOSURE: Corrosive to skin, eyes, and mucous membranes, digestive tract

INHALATION: Irritation of respiratory system/mists can cause damage to respiratory passages.

SKIN CONTACT/ABSORPTION: causes burning and possible deep ulceration

INGESTION: Gastric distress (severe damage to membranes and deep tissues)

EYES: Will cause burning and severe damage even blindness rapidly

CARCINOGENICITY: **NTP?** Notlisted | **IARC MONOGRAPHS?** Not listed | **OSHA REGULATED?** Not listed

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: **EYES -** Flush eyes with plenty of water for 15 minutes. GET IMMEDIATE MEDICAL ATTENTION **SKIN -** Use vinegar to neutralize skin then wash well with soap and water. Get medical help if irritation persists

INHALATION: Move to fresh air, if breathing is difficult or stops then start artificial respiration. GET MEDICAL ATTENTION

INGESTION: Drink water. Do Not induce vomiting. GET IMMEDIATE MEDICAL ATTENTION. Call Poison Control Center.

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:
SMALL SPILLS: Neutralize with diluted acid flush with water to drain.
LARGE SPILLS: Due to packaging, large spills can not occur.

WASTE DISPOSAL METHOD: Deposit in accordance to local, state, and federal regulations

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: Vapor cartridge for mists and vapors/Not normally needed with local exhaust

EYE: Chemical goggles - Recommended

SKIN: Wear impervious clothing, boots, splash apron

PROTECTIVE GLOVES: Chemical resistant rubber or plastic gloves

OTHER: Do not eat, drink, or smoke in work area. Wash hands before eating

VENTILATION REQUIREMENTS: Local exhaust adequate

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed when not in use

SPECIAL PRECAUTIONARY STATEMENTS: Keep this and all chemicals out of reach of children.

NOTICE: We believe that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, expressed or implied, of merchantability fitness or otherwise is made.

SARA Title III Reporting Requirements

302	(Extremely Hazardous Substances): **Reporting not required.**
304/CERCLA	(Spills Notification): **Reporting required if release is above RQ for sodium hydroxide (1000 lbs)**
311	Community Right-To-Know, RTK): **Reporting required. Acute health hazard, corrosive, toxic.**
312	(RTK Inventory Data): **Reporting required for inventories above threshold planning quantity.**
313	(Emissions and Releases): **Reporting not required.**
DOT	Corrosive liquid, basic, inorganic, N.O.S. (contains sodium hydroxide) 8, UN3266, PGII

References

TOXIC SUBSTANCE CONTROL CT LIST (TSCA) - INGREDIENTS LISTED

PERMISSIBLE EXPOSURE REFERENCES:

- Registry of Toxic Effects of Chemical Substances.
- Title 29 Code of Federal Regulations.
- National Toxicology Program (NTP) Report on Carcinogens.
- International Agency for Research on Cancer (IARC) Monographs.
- Title 40 Code of Federal Regulations

REGULATORY STANDARDS:

- DOT Title 49 Code of Federal Regulations 172.101
- SARA Title III

Nuclear Regulatory Commission

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: PROTECH™ Super Concentrated Condenser Coil Cleaner
Product Number(s): 85-H4X32, 85-4X08
Product Use: Coil cleaner

Date Prepared Jan. 24, 2003
Replaces Apr. 04, 2001

Company Name: North American Research Corporation
P.O. Box 1318
Lewisville, TX 75067

Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755
Emergencies: Infotrac (800) 535-5053 (24 hours, everyday)

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200):

	CAS Registry No.	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Potassium Hydroxide	1310-58-3	2 mg/m^3 Ceiling	2 mg/m^3 Ceiling	None known	< 70

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

POISON! DANGER! CORROSIVE. CAUSES SEVERE BURNS TO SKIN, EYES, AND OTHER BODY TISSUE. HARMFUL OR FATAL IF SWALLOWED.

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Corrosive. May cause permanent damage including blindness.

SKIN CONTACT: Corrosive. May cause permanent damage.

INHALATION: May cause irritation and corrosive effects to the nose, throat, and respiratory tract. Severe injury is usually avoided by self-limiting coughing and sneezing symptoms.

INGESTION: Corrosive. May cause burns to mouth, throat, and stomach.

CHRONIC EXPOSURE: No known chronic effects.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known other than existing skin disorders.

CARCINOGENICITY: NTP? No IARC Monographs? No OSHA Regulated? No

SECTION 4 FIRST-AID MEASURES

EYE CONTACT: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

SKIN CONTACT: Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

INHALATION: If breathing is difficult: Remove to fresh air. Get medical attention immediately.

INGESTION: Do not induce vomiting! Immediately drink large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5 FIRE-FIGHTING MEASURES

FLASHPOINT: Not flammable METHOD: Not applicable

FLAMMABLE LIMITS: LEL: Not applicable UEL: Not applicable AUTOIGNITION TEMP: Not applicable

GENERAL HAZARD: Not considered to be a fire hazard. Will react with some metals, eg. Aluminum, tin, zinc to form flammable hydrogen gas.

FIRE EXTINGUISHING MEDIA: Use means suitable for extinguishing surrounding fire. Water spray may be used to keep fire-exposed containers cool.

SPECIAL INFORMATION: Corrosive material. See sections 8 and 10.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Put on appropriate personal protective equipment.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP:

Small spills: Mop up or soak up with rags and flush with water.

In the event of major spillage: Use appropriate containment consistent with good industrial or environmental practice. Recover as much as possible. Pump, sweep or scrape up the remaining material and place in suitable clean containers for disposal by proper methods. Use a water rinse for final clean-up.

SECTION 7 STORAGE AND HANDLING

HANDLING: Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid breathing vapors or spray mists. Wash thoroughly after handling. Remove and wash contaminated clothing and footwear before reuse. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR INDUSTRIAL USE ONLY.

STORAGE: Keep tightly closed in original container. Store in a cool, dry, ventilated area. Protect against physical damage. Tip: For transport on service truck, place container inside of plastic pail and immobilize pail.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

PERSONAL PROTECTION:

EYES: Chemical splash goggles.

HANDS: Chemical resistant gloves; rubber, neoprene, or other impervious material.

RESPIRATORY: If mists/vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

FEET: Chemical resistant boots; rubber, neoprene, or other impervious material.

BODY: If major exposure is possible, wear suitable, impervious protective clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Semi-viscous, amber to clear liquid. Bland odor.

SPECIFIC GRAVITY: 1.42

VAPOR PRESSURE: Not determined

VAPOR DENSITY: Not determined

SOLUBILITY IN WATER: Complete

pH: 13.5

BOILING POINT: 212°F

FREEZING / MELTING POINT: Not determined

EVAPORATION RATE (Butyl Acetate = 1): Not determined

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage. HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (Materials to Avoid): Reactive with oxidizing agents, acids, chlorinated hydrocarbons, acetone. Will react with some metals, e.g., aluminum, tin, zinc, to form flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: When exposed to fire, produces normal products of combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

For Potassium Hydroxide (1310-58-3): Oral LD50 (rat): 365 mg/kg. Primary skin irritation: (rabbit, 24hr) severe. Primary eye irritation: (rabbit, 24hr) severe.

SECTION 12 ECOLOGICAL INFORMATION

For Potassium Hydroxide (1310-58-3): LC50 (96hr) Fathead minnow, 45% KOH solution = 179 mg/L.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal of unused product is regulated under environmental and transportation laws as a corrosive waste. Dispose of container and unused contents in accordance with federal, state, and local requirements.

SECTION 14 TRANSPORT INFORMATION

U.S. Department of Transportation: Potassium Hydroxide Solution, 8, UN1814, PG II

SECTION 15 REGULATORY INFORMATION

TSCA: All ingredients of this product are listed or are excluded from listing on the U.S. TSCA chemical substances inventory.

CERCLA: Potassium Hydroxide (1310-58-3); RQ 1000 lbs.

SARA TITLE III: Section 311/312 Hazard Category: Acute: Yes Chronic: No Fire: No Pressure: No Reactive Hazard: Yes

Section 313 Reportable Ingredients: None

SECTION 16 OTHER INFORMATION

NFPA RATING: Health – 3, Flammability – 0, Reactivity – 1

HMIS® RATING: Health – 3, Flammability – 0, Reactivity – 2

HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

NOTICE: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all federal, state, provincial, and local laws and regulations.

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: PROTECH™ Super Concentrated Condenser Coil Cleaner
Product Number(s): 85-4X08, 85-H4X32
Product Use: Coil cleaner

Date Prepared Jan. 14, 2004
Replaces

Company Name: North American Research Corporation
P.O. Box 1318
Lewisville, TX 75067

Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755
Emergencies: Infotrac (800) 535-5053 (24 hours, everyday)

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200):

	CAS Registry No.	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Potassium Hydroxide	1310-58-3	2 mg/m^3 Ceiling	2 mg/m^3 Ceiling	None known	< 70

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

POISON! DANGER! CORROSIVE. CAUSES SEVERE BURNS TO SKIN, EYES, AND OTHER BODY TISSUE. HARMFUL OR FATAL IF SWALLOWED.

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Corrosive. May cause permanent damage including blindness.

SKIN CONTACT: Corrosive. May cause permanent damage.

INHALATION: May cause irritation and corrosive effects to the nose, throat, and respiratory tract. Severe injury is usually avoided by self-limiting coughing and sneezing symptoms.

INGESTION: Corrosive. May cause burns to mouth, throat, and stomach.

CHRONIC EXPOSURE: No known chronic effects.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known other than existing skin disorders.

CARCINOGENICITY: NTP? No IARC Monographs? No OSHA Regulated? No

SECTION 4 FIRST-AID MEASURES

EYE CONTACT: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

SKIN CONTACT: Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

INHALATION: If breathing is difficult: Remove to fresh air. Get medical attention immediately.

INGESTION: Do not induce vomiting! Immediately drink large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5 FIRE-FIGHTING MEASURES

FLASHPOINT: Not flammable METHOD: Not applicable

FLAMMABLE LIMITS: LEL: Not applicable UEL: Not applicable AUTOIGNITION TEMP: Not applicable

GENERAL HAZARD: Not considered to be a fire hazard. Will react with some metals, eg. Aluminum, tin, zinc to form flammable hydrogen gas.

FIRE EXTINGUISHING MEDIA: Use means suitable for extinguishing surrounding fire. Water spray may be used to keep fire-exposed containers cool.

SPECIAL INFORMATION: Corrosive material. See sections 8 and 10.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Put on appropriate personal protective equipment.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP:

Small spills: Mop up or soak up with rags and flush with water.

In the event of major spillage: Use appropriate containment consistent with good industrial or environmental practice. Recover as much as possible. Pump, sweep or scrape up the remaining material and place in suitable clean containers for disposal by proper methods. Use a water rinse for final clean-up.

SECTION 7 STORAGE AND HANDLING

HANDLING: Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid breathing vapors or spray mists. Wash thoroughly after handling. Remove and wash contaminated clothing and footwear before reuse. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR INDUSTRIAL USE ONLY.

STORAGE: Keep tightly closed in original container. Store in a cool, dry, ventilated area. Protect against physical damage. Tip: For transport on service truck, place container inside of plastic pail and immobilize pail.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

PERSONAL PROTECTION:

EYES: Chemical splash goggles.

HANDS: Chemical resistant gloves; rubber, neoprene, or other impervious material.

RESPIRATORY: If mists/vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

FEET: Chemical resistant boots; rubber, neoprene, or other impervious material.

BODY: If major exposure is possible, wear suitable, impervious protective clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Semi-viscous, amber to clear liquid. Bland odor.

SPECIFIC GRAVITY: 1.42

VAPOR PRESSURE: Not determined

VAPOR DENSITY: Not determined

SOLUBILITY IN WATER: Complete

pH: 13.5

BOILING POINT: 212°F

FREEZING / MELTING POINT: Not determined

EVAPORATION RATE (Butyl Acetate = 1): Not determined

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage. HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (Materials to Avoid): Reactive with oxidizing agents, acids, chlorinated hydrocarbons, acetone. Will react with some metals, e.g., aluminum, tin, zinc, to form flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: When exposed to fire, produces normal products of combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

For Potassium Hydroxide (1310-58-3): Oral LD50 (rat): 365 mg/kg. Primary skin irritation: (rabbit, 24hr) severe. Primary eye irritation: (rabbit, 24hr) severe.

SECTION 12 ECOLOGICAL INFORMATION

For Potassium Hydroxide (1310-58-3): LC50 (96hr) Fathead minnow, 45% KOH solution = 179 mg/L.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal of unused product is regulated under environmental and transportation laws as a corrosive waste. Dispose of container and unused contents in accordance with federal, state, and local requirements.

SECTION 14 TRANSPORT INFORMATION

U.S. Department of Transportation: Potassium Hydroxide Solution, 8, UN1814, PG II

SECTION 15 REGULATORY INFORMATION

TSCA: All ingredients of this product are listed or are excluded from listing on the U.S. TSCA chemical substances inventory.

CERCLA: Potassium Hydroxide (1310-58-3); RQ 1000 lbs.

SARA TITLE III: Section 311/312 Hazard Category: Acute: Yes Chronic: No Fire: No Pressure: No Reactive Hazard: Yes

Section 313 Reportable Ingredients: None

SECTION 16 OTHER INFORMATION

NFPA RATING: Health – 3, Flammability – 0, Reactivity – 1

HMIS® RATING: Health – 3, Flammability – 0, Reactivity – 2

HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

NOTICE: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all federal, state, provincial, and local laws and regulations.

Atlantic Chemical Equipment Co.
2190 DeFoor Hills Rd NW
Atlanta, GA 30318
404-355-5522
Toll Free: 1-800-929-2436

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: (FNC) FOAM N' CLEAN COIL CLEANER

EMERGENCY PHONE: 1-800-424-9300

May be used to comply with OSHA'S Hazard Communications Standard (HSC) 29 CRF 1910, 1200.
Standard must be consulted for specific requirements. This product contains no substances subject to SARA TITLE III and 40 CRF.

HMIS SYMBOLS

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0

1 - IDENTIFICATION

PRODUCT NAME: **Foam N' Clean Coil Cleaner (FNC)**	PACKAGE TYPE: 32oz, 1, 2.5, 5, & 55 gallon units
PREPARED BY GENE HUNT/CHEMIST - SUPERSCEEDES MAY 2002 MSDS	DATE PREPARED: Revised August 2003

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S) (CHEMICAL NAMES)	CAS NO	ACGIH TLV	OSHA PEL	% or RANGE
Sodium Metasilicate	6834-92-0	N/E	N/E	< 1.5
Sodium Hydroxide 50%	1310-73-2	$2mg/m^2$	$2mg/m^3$	< 38
Potassium Hydroxide 45%	1310-58-3	$2mg/m^3$	NE	< 4

III - PHYSICAL DATA

BOILING POINT (^0F) : 212^0F	SPECIFIC GRAVITY (H_20= 1) : 1.20
VAPOR PRESSURE (mm Hg) : 17	MELTING POINT: N/A
VAPOR DENSITY (Air = 1) : 2	EVAPORATION RATE (H_20 = 1) : 1.0
pH : 11.6 - 13.0 @ 20^0C	APPEARANCE AND ODOR : Clear brown liquid, Herbal Odor
SOLUBILITY IN WATER : Complete	

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: Flash Point: Not Combustible

SPECIAL FIRE FIGHTING PROCEDURES: Standard fire fighting techniques / Wear impervious to strong Alkaline Products Clothing

UNUSUAL FIRE AND EXPLOSION HAZARDS: Avoid mixing with acids and soft metals

CHEMICAL STABILITY	UNSTABLE		**CONDITIONS TO AVOID:**
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): Acids and acid products

HAZARDOUS DECOMPOSITION PRODUCTS: Heat

HAZARDOUS POLYMERIZATION	MAY OCCUR		**CONDITIONS TO AVOID:**
	WILL NOT OCCUR	X	

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: **EYES** Yes | **SKIN** Yes | **INGESTION** Yes | **INHALATION** Yes

EFFECTS OF OVER EXPOSURE: Very corrosive to skin, eyes, and mucous membranes; causes deep immediate burns, any cause blindness

INHALATION: Irritation to nasal passages

SKIN CONTACT/ABSORPTION: Severe burns to exposed skin

INGESTION: Nausea, Corrosive to digestive tract

EYES: Corrosive to eyes/Blindness may occur

CARCINOGENICITY: No | **NTP?** Not listed | **IARC MONOGRAPHS?** Not listed | **OSHA REGULATED?** See s_s II for exposure

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: EYES - Wash with plenty of water for 15 minutes. GET IMMEDIATE MEDICAL ATTENTION **SKIN -** Neutralize with very diluted vinegar solution, wash with soap and water, apply skin cream. For large burns - GET IMMEDIATE MEDICAL ATTENTION

INHALATION: Remove to fresh air. If breathing stops, start artificial respiration, GET IMMEDIATE MEDICAL ATTENTION

INGESTION: Drink water. DO NOT induce vomiting. SEEK IMMEDIATE MEDICAL ATTENTION. NOTE: Vomiting may cause aspiration of material to lungs causing Pulmonary Edema

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:
SMALL SPILLS: Neutralize with water and vinegar. Wash to drain
LARGE SPILLS: Due to packaging, large spills cannot occur

WASTE DISPOSAL METHOD: Deposit in landfill in accordance with local, state, and federal regulations

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: Keep face away from spray mist. Do not breathe vapors.

EYE: Use tight fitting, splash proof safety goggles. Contact lenses should no be worn when handling this material.

SKIN: Wear impervious clothing and footwear to prevent all skin contact. Use of face shield is recommended.

PROTECTIVE GLOVES: Chemical resistant rubber/neoprene

OTHER: Avoid contact with eyes, skin, and clothing. Wash hands and face thoroughly after handling

VENTILATION REQUIREMENTS: If vapors are detected, ventilate work area by opening windows and using exhaust fans. Always work with wind from behind.

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed when not in use

SPECIAL PRECAUTIONARY STATEMENTS: Keep this and all chemicals out of reach of children.

NOTICE: We believe that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, expressed or implied, of merchantability fitness or otherwise is made.

SARA Title III Reporting Requirements

302	(Extremely Hazardous Substances): **Reporting not required.**
304/CERCLA	(Spills Notification): **Reporting required for spills above RQ. Sodium hydroxide and Potassium hydroxide are listed by CERCLA. Spills in excess of 1000 lbs. Each must be reported.**
311	Community Right-To-Know, RTK): **Reporting required. Acute & chronic health hazard, corrosive, toxic.**
312	(RTK Inventory Data): **Reporting required for inventories above threshold planning quantity.**
313	(Emissions and Releases): **Reporting not required.**
DOT	**Corrosive liquids, basic, inorganic, N.O.S. (contains sodium hydroxide) 8, UN3266, PGII**

References

PERMISSIBLE EXPOSURE REFERENCES:
- Registry of Toxic Effects of Chemical Substances.
- Title 29 Code of Federal Regulations.
- National Toxicology Program (NTP) Report on Carcinogens.
- International Agency for Research on Cancer (IARC) Monographs.
- Title 40 Code of Federal Regulations

REGULATORY STANDARDS:
- DOT Title 49 Code of Federal Regulations 172.101
- SARA Title III

Nuclear Regulatory Commission

Atlantic Chemical Equipment Co.
2190 DeFoor Hills Rd NW
Atlanta, GA 30318
404-355-5522

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ENVIRO-SAFE COIL CLEANER (ECS)

EMERGENCY PHONE: 1-800-424-9300

May be used to comply with OSHA'S Hazard Communications Standard (HSC) 29 CRF 1910, 1200.
Standard must be consulted for specific requirements. This product contains no substances subject to SARA TITLE III and 40 CRF.

HMIS SYMBOLS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

1 - IDENTIFICATION

PRODUCT NAME: (ECS) ENVIRO-SAFE COIL CLEANER	PACKAGE TYPE: 1, 5, 55 gal
PREPARED DEPARTMENT OF HAZARDOUS COMMUNICATIONS	DATE PREPARED: June 2003

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S) (CHEMICAL NAMES)	CAS NO	ACGIH TLV	OSHA PEL	% or RANGE
None known				

III - PHYSICAL DATA

BOILING POINT (^{0}F) : 214^{0}F	SPECIFIC GRAVITY (H_20= 1) : 1.09
VAPOR PRESSURE (mm Hg) : NA	MELTING POINT: N/A
VAPOR DENSITY (Air = 1) : NA	EVAPORATION RATE (H_20 = 1) : 14.0
pH : 8.5	APPEARANCE AND ODOR : Clear, no odor liquid
SOLUBILITY IN WATER : Complete	

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: Flash Point - Not Flammable

SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cool with water spray

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

V - REACTIVITY DATA

CHEMICAL STABILITY	UNSTABLE		**CONDITIONS TO AVOID:**
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): Avoid oxidizers or acids

HAZARDOUS DECOMPOSITION PRODUCTS: Heat, carbon dioxide, carbon monoxide

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	X	

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: **EYES** Yes **SKIN** Yes **INGESTION** Yes **INHALATION** Yes

EFFECTS OF OVER EXPOSURE:

INHALATION: Mists are corrosive to respiratory tract

SKIN CONTACT/ABSORPTION: Irritating

INGESTION: Corrosive to digestive system

EYES: Corrosive to eyes

CARCINOGENICITY: **NTP?** Not listed **IARC MONOGRAPHS?** Not listed **OSHA REGULATED?** Not listed

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: **EYES -** Wash with plenty of water for 15 minutes, lifting upper and lower lids. GET IMMEDIATE MEDICAL ATTENTION. **SKIN -** Rinse skin with water. If irritation results apply skin cream and discontinue use.

INHALATION: Move to fresh air. If breathing is difficult seek IMMEDIATE medical attention

INGESTION: Drink water or orange juice to dilute. DO NOT induce vomiting, GET IMMEDIATE MEDICAL ATTENTION, call Poison Control Center

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:
Neutralize with diluted vinegar solution to pH of 7 the flush to sewer.

WASTE DISPOSAL METHOD: Flush to sanitary sewer or dispose with other sanitary waste.

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: Required in misty conditions

EYE: Chemical goggles with side shields

SKIN: Required to prevent skin contact

PROTECTIVE GLOVES: Required

OTHER: Follow good housekeeping practices/Empty container may contain hazardous residue. Do not reuse for food or drink.

VENTILATION REQUIREMENTS: Recommended for enclosed areas

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed when not in use. Do not freeze. Follow label instructions.

SPECIAL PRECAUTIONARY STATEMENTS: Keep this and all chemicals out of reach of children.

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SARA Title III Reporting Requirements

302	(Extremely Hazardous Substances): **Reporting not required.**
304/CERCLA	(Spills Notification): **Not required.**
311	Community Right-To-Know, RTK): **Reporting not required.**
312	(RTK Inventory Data): **Not required.**
313	(Emissions and Releases): **Reporting not required.**
DOT	NOT HAZARDOUS

References

TOXIC SUBSTANCE CONTROL CT LIST (TSCA) - INGREDIENTS LISTED

PERMISSIBLE EXPOSURE REFERENCES:
- Registry of Toxic Effects of Chemical Substances.
- Title 29 Code of Federal Regulations.
- National Toxicology Program (NTP) Report on Carcinogens.
- International Agency for Research on Cancer (IARC) Monographs.
- Title 40 Code of Federal Regulations

REGULATORY STANDARDS:
- DOT Title 49 Code of Federal Regulations 172.101
- SARA Title III

Nuclear Regulatory Commission

Atlantic Chemical Equipment Co.
2190 DeFoor Hills Rd NW
Atlanta, GA 30318
404-355-5522

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ACESEAL MASTIC 181 (MAS)

EMERGENCY PHONE: 1-800-424-9300

May be used to comply with OSHA'S Hazard Communications Standard (HSC) 29 CRF 1910, 1200.
Standard must be consulted for specific requirements. This product contains no substances subject to SARA TITLE III and 40 CRF.

HMIS SYMBOLS

HEALTH	-
FLAMMABILITY	-
REACTIVITY	-

1 - IDENTIFICATION

PRODUCT NAME: (MAS) ACESEAL MASTIC 181	PACKAGE TYPE: 1, 2 gal
PREPARED DEPARTMENT OF HAZARDOUS COMMUNICATIONS	DATE PREPARED: June 2003

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S) (CHEMICAL NAMES)	CAS NO	ACGIH TLV	OSHA PEL	% or RANGE
Ammonium Hydroxide (29%)	1136-21-6	10 mg/cu. M	10 mg/cu. M	0.07
Methyl Alcohol	67-56-1	250 ppm	250 ppm	2.9

III - PHYSICAL DATA

BOILING POINT (^{0}F) : 100^{0}F	SPECIFIC GRAVITY (H_20= 1) : 1.37
VAPOR PRESSURE (mm Hg) : N/E	MELTING POINT: N/A
VAPOR DENSITY (Air = 1) : N/E	EVAPORATION RATE (H_20 = 1) : Less than 1
pH : NA	APPEARANCE AND ODOR : White or gray with slight ammonia odor
SOLUBILITY IN WATER : Soluble	

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: Flash Point Non TCC

SPECIAL FIRE FIGHTING PROCEDURES: None, however firefighters should always use self contained breathing apparatus as nitrogen oxides and carbon monoxides may be involved.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

V - REACTIVITY DATA

CHEMICAL STABILITY	UNSTABLE		**CONDITIONS TO AVOID:**
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): Materials that react with water

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, ammonia, nitrogen oxides

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	X	

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: **EYES** **SKIN** **INGESTION** **INHALATION**

EFFECTS OF OVER EXPOSURE: No evidence

INHALATION: N/E

SKIN CONTACT/ABSORPTION: N/E

INGESTION: N/E

EYES: N/E

CARCINOGENICITY: **NTP?** Not listed **IARC MONOGRAPHS?** N/L **OSHA REGULATED?** II for exposure limits

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: **EYES -** Wash with plenty of water for 15 minutes. GET IMMEDIATE MEDICAL ATTENTION. **SKIN -** Wash well with running water and soap and water.

INHALATION: Move to fresh air. If breathing difficult seek IMMEDIATE medical attention

INGESTION: DO NOT INDUCE VOMITING. Vomiting may cause pulmonary edema which may be fatal. GET IMMEDIATE MEDICAL ATTENTION. CALL POISON CONTROL CENTER - contains sulfite and caustic.

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:
SMALL SPILLS: Dilute and neutralize and wash to drain
LARGE SPILLS: Due to packaging, large spills cannot occur.

WASTE DISPOSAL METHOD: Deposit in landfill in accordance with local, state, and federal regulations.

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: None required in ventilated areas.

EYE: Follow good industrial practice by wearing safety glasses.

SKIN: No significant concern.

PROTECTIVE GLOVES: Chemical resistant rubber or plastic.

OTHER: N/A

VENTILATION REQUIREMENTS: General good ventilation is recommended.

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed when not in use. Store with adequate ventilation.

SPECIAL PRECAUTIONARY STATEMENTS: Keep this and all chemicals out of reach of children.

NOTICE: We believe that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, expressed or implied, of merchantability fitness or otherwise is made.

SARA Title III Reporting Requirements

302	(Extremely Hazardous Substances): **Reporting not required.**
304/CERCLA	(Spills Notification): **Not required.**
311	Community Right-To-Know, RTK): **Reporting not required.**
312	(RTK Inventory Data): **Not required.**
313	(Emissions and Releases): **Reporting not required.**
DOT	NOT HAZARDOUS

References

TOXIC SUBSTANCE CONTROL CT LIST (TSCA) - INGREDIENTS LISTED

PERMISSIBLE EXPOSURE REFERENCES:

Registry of Toxic Effects of Chemical Substances.
Title 29 Code of Federal Regulations.
National Toxicology Program (NTP) Report on Carcinogens.
International Agency for Research on Cancer (IARC) Monographs.
Title 40 Code of Federal Regulations

REGULATORY STANDARDS:

DOT Title 49 Code of Federal Regulations 172.101
SARA Title III

Nuclear Regulatory Commission

SAFETY DATA SHEET

LEAK DETECTOR SPRAY

Issued: 08/06/2005
Revision No: 2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: LEAK DETECTOR SPRAY
Product code: 32030
Company name: ROCOL Lubricants
ROCOL House
Swillington
Leeds
West Yorkshire
LS26 8BS
ENGLAND
Tel: +44 (0) 113 232 2700
Fax: +44 (0) 113 232 2740
Emergency tel: +44 (0) 113 232 2600

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: AMIDE DERIVATIVE 1-5%
[Xi] R36/38

3. HAZARDS IDENTIFICATION

Main hazards: None

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use water spray to cool containers.
Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details.
Environmental precautions: Do not discharge into drains or rivers.
Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area.
Storage conditions: Store in cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight.
Suitable packaging: Must only be kept in original packaging.

[cont...]

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Respiratory protection not required.
Hand protection: Protective gloves.
Eye protection: Safety glasses with side-shields.
Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Aerosol
Colour: Colourless
Odour: Odourless
Evaporation rate: Slow
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Miscible in all proportions
Viscosity: Non-viscous
Boiling point/range°C: 100
Melting point/range°C: 0
Flash point°C: > 200
Autoflammability°C: >200
Relative density: 1

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: Direct sunlight. Heat. Sources of ignition.
Materials to avoid: Strong oxidising agents. Strong reducing agents.
Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Volatile. Readily absorbed into soil.
Persistence and degradability: Biodegradable.
Bioaccumulative potential: No bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1950
ADR Class: 2
Classification code: 5A
Shipping name: AEROSOLS
Labelling: 2.2

[cont...]

IMDG / IMO

UN no: 1950 **Class:** 2
EmS: F-D,S-U **Marine pollutant:** .
Labelling: 2.2

IATA / ICAO

UN no: 1950 **Class:** 2
Labelling: 2.2

15. REGULATORY INFORMATION

Hazard symbols: No significant hazard.
Risk phrases: None
Safety phrases: S16: Keep away from sources of ignition - No smoking.
S23: Do not breathe spray.
S51: Use only in well-ventilated areas.
Precautionary phrases: Safety data sheet available for professional user on request.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: EC Directive 1999/45/EC relating to the classification, packaging and labelling of dangerous preparations.
EC Directive 91/155/EEC defining the laying down and detailed arrangements for the system of specific information relating to dangerous preparations.
EC Directive 94/1/EC adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of Member States relating to aerosol dispensers.
Risk phrases used in s.2: R36/38: Irritating to eyes and skin.
Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **NEUTRAZEN Natural Scents (Metered Cans)**

491143 Black Cherry	**491120 Country Garden**	**491375 Gingerbread**	**491805 Peach Kiwi**
491275 Candy Cane	**491605 Cranberry Spice**	**491855 Green Apple**	**491955 Pina Colada**
491113 Cinnamon	**491250 Dutch Apple**	**491163 Hawaiian Kiss**	**491025 Pine Forest**
491505 Citrus Creme	**491333 Fresh Linen**	**491705 Mango**	**491905 Powder Fresh**
491125 Citrus Peel	**491525 Fruit Basket**	**491755 Orchard Spice**	**491655 Tropical Nectar**
			491555 Vanilla Delight

Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Acetone	67-64-1	500ppm
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 ± 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F		
Flammable Limits:	LEL: 1.8	UEL: 9.5	
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.		
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.		
Unusual Fire and Explosion Hazards:	Heated cans may burst.		

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information.

491143,491275,491113,491505,491125,491120,491605,491250,491333,491525,491375,491855,491163,
491705,491755,491805,491955,491025,491905,491655,491555

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **NEUTRAZEN Natural Scents (Metered Cans)**

491143 Black Cherry	**491120 Country Garden**	**491375 Gingerbread**	**491805 Peach Kiwi**
491275 Candy Cane	**491605 Cranberry Spice**	**491855 Green Apple**	**491955 Pina Colada**
491113 Cinnamon	**491250 Dutch Apple**	**491163 Hawaiian Kiss**	**491025 Pine Forest**
491505 Citrus Creme	**491333 Fresh Linen**	**491705 Mango**	**491905 Powder Fresh**
491125 Citrus Peel	**491525 Fruit Basket**	**491755 Orchard Spice**	**491655 Tropical Nectar**
			491555 Vanilla Delight

Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Acetone	67-64-1	500ppm
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 ± 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F		
Flammable Limits:	LEL: 1.8	UEL: 9.5	
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.		
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.		
Unusual Fire and Explosion Hazards:	Heated cans may burst.		

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information.

491143,491275,491113,491505,491125,491120,491605,491250,491333,491525,491375,491855,491163,
491705,491755,491805,491955,491025,491905,491655,491555

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **NEUTRAZEN Natural Scents (Hand Held Cans)**

491153 Cinnamon	**491075 Fruit Basket**	**491355 Pina Colada**
491105 Citrus Creme	**491255 Green Apple**	**491305 Powder Fresh**
491325 Citrus Peel	**491455 Mango**	**491055 Tropical Nectar**
491235 Cranberry Spice	**491155 Orchard Spice**	**491205 Vanilla Delight**
491123 Fresh Linen	**491405 Peach Kiwi**	

Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Dimethyl Ketal	67-64-1	500ppm
Isobutane	75-28-5	Not established
Propane	74-98-6	2500ppm
Butane	106-97-8	800ppm
Fragrance	Not available	Not available

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 133^0 F	Specific Gravity(H_2O=1):	0.80 ± 0.05
Solubility in Water:	Slightly	Evaporation Rate:	Slower than Ether
Physical Description:	Clear	Vapor Density(Air=1):	Heavier than air

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F
Flammable Limits:	LEL: 1.8 UEL: 9.5
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

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SECTION 7 HEALTH HAZARDS AND FIRST AID

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INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

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Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

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491153,491105,491325,491235,491123,491075,491255,491455,491155,491405,491355,491305,491055, 491205

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name: **NEUTRAZEN Natural Scents (Hand Held Cans)**

491153 Cinnamon	**491075 Fruit Basket**	**491355 Pina Colada**
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Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

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Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

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491153,491105,491325,491235,491123,491075,491255,491455,491155,491405,491355,491305,491055, 491205

RECKITT BENCKISER

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	**CONCENTRATED SANITIZING LIQUID HAND SOAP (PROJECT DUVET) Shipping MSDS**
Product Description	Shipping MSDS. For shipping of samples or product from the Research Center. MSDS not for external distribution other than for submittal with the samples. One sample (500 ml.) in a plastic container to be sent to outside laboratory for evaluation.
Manufacturer	Reckitt Benckiser Inc. 1655 Valley Road Wayne, N.J. 07474
Product Identifier	Not available.
Item Number	854-136
Formula Number	854-136
UPC Number	Shipping MSDS. One 500 ml. sample in a plastic container to be sent to an outside laboratory in the U.S. for evaluation by Air.

MSDS#	Not available.
Validation Date	**4/24/2003**
Print Date	4/24/2003

In case of Emergency:	Telephone: 800-228-4722 (U.S.)
Transportation Emergencies:	Chemtrec: 1-800-424-9300 (U.S. & Canada)

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
1) BENZETHONIUM CHLORIDE	121-54-0	10	Not available.
2) DIETHANOLAMINE COCONUT FATTY ACID CONDENSATE	61791-31-9	10	Not available.

Section 3. Hazards Identification

Emergency Overview	WARNING: EYE IRRITANT. Avoid contact with eyes. KEEP OUT OF REACH OF CHILDREN. For external use only.

Section 4. First Aid Measures

Eye Contact	In case of eye contact, hold eyes open and IMMEDIATELY rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing for at least 15 minutes. If irritation persists, consult a physician.
Skin Contact	Rinse with water.
Inhalation	None required under recommended use conditions. Remove to fresh air.
Ingestion	Rinse mouth and drink a glass of water. If symptoms persist, consult a physician. NEVER give an unconscious person anything to ingest.

Continued on Next Page

Section 5. Fire and Explosion Data

Flammability	See Section 14 for any Shipping Classifications.
Flash Point	CLOSED CUP: Higher than 93.3°C (>200°F). (Tagliabue.).
Explosive Limits in Air	Not available.
Products of Combustion	Not available.
Fire and Explosion Hazards	None known.
Fire Fighting Media and Instructions	Use water spray, foam, dry chemical or carbon dioxide, as suitable for the surrounding fire.
Special Fire Fighting Instructions	Wear self-contained breathing apparatus and protective clothing appropriate for fighting a chemical fire.

Section 6. Accidental Release Measures

Accidental Spill	Small spills may be wiped up with a wet paper towel or flushed to sink or sanitary sewer with water. Large spills should be contained and collected for disposal. Wash or rinse walking surfaces to eliminate slippery conditions.

Section 7. Handling and Storage

Handling and Storage	WARNING: EYE IRRITANT. Avoid contact with eyes. KEEP OUT OF REACH OF CHILDREN. For external use only. Store in original container in an area inaccessible to small children.

Section 8. Exposure Controls/Personal Protection

Ventilation Requirements	None required.
Eye Protection	Avoid eye contact. Emergency responders should wear full eye and face protection.
Skin Protection	None required.
Respiratory Protection	None required.
Other Protection	Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Work/Hygienic Practices	Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

Section 9. Physical and Chemical Properties

Description	Liquid. (Opaque liquid.)
pH	9.19 [Basic.]
Boiling/Condensation Point	Not determined.
Specific Gravity	1.0032(Water = 1)
Vapor Pressure	Not determined.

Odor	Odorless. (Slight.)
Color	Colorless. Opaque liquid.

Continued on Next Page

Vapor Density	Not determined.
Viscosity	Not available.
Solubility	Partially soluble.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity Data

Chemical Stability	The product is stable.
Conditions of Instability	None known.
Incompatibility with Various Substances	None known.
Hazardous Decomposition Products	None known.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Exposure effects

Eye Contact	Direct contact with the eyes may cause irritation and redness.
Skin Contact	None expected.
Inhalation	None expected.
Ingestion	None expected. May cause stomach distress, nausea and vomiting if ingested.
Carcinogenicity	Not listed as carcinogenic by OSHA, NTP or IARC.

Section 12. Ecological Information

Ecotoxicity	Not available.

Section 13. Disposal Considerations

Waste Disposal	Dispose of in accordance with local, state and federal regulations. Rinse container and discard or rinse and recycle as appropriate.

Section 14. Transport Information

DOT Classification	Not regulated by DOT (United States).
Proper Shipping Name	Not applicable.
DOT Identification Number	Not applicable.
Packing Group	Not applicable.
Maritime Transportation	Not applicable.

Continued on Next Page

Hazardous Substances Reportable Quantity	Not applicable.
Special Provisions for Transport	Not applicable.
TDG Classification	Not regulated by TDG.
ADR Classification	Not applicable.
IMDG Classification	Not regulated by IMDG.
IATA Classification	Not regulated by IATA.

Section 15. Regulatory Information

Federal and State Regulations

SARA Title III, Section 313 Toxic Chemical Notification & Release Reporting:

None

California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:
None

Other Classifications

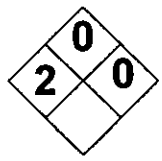
WHMIS (Canada) Not a WHMIS controlled product.

Section 16. Other Information

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)



Health

Fire Hazard

Reactivity

Specific hazard

NFPA Aerosol Level Not applicable.

Validated by Product Safety on 4/24/2003.

Printed 4/24/2003.

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date: 15 October 2007
Supercedes: 15 November 2004

MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:

Product Name: **GOJO® PINK CONCENTRATE HAND SOAP**

Company Name & Address: GOJO Industries, Inc.
One GOJO Plaza, Suite 500
Akron, OH 44311

Emergency Phone: **1-800-424-9300 CHEMTREC**
Non-Emergency Phone: (330) 255-6000
MSDS Request Phone: (330) 255-6000 x8804

2. INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Ammonium Chloride as dust	12125-02-9	Not established	TWA: 10 mg/m^3	<3

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Sodium Lauryl Sulfate	151-21-3	CN 1
Ammonium Chloride	12125-02-9	MA 1; NJ 1;PA 1; CN 1

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

Potential Health Effects:

HMIS: Health 1 Flammability 0 Reactivity 0 Personal Protection None

Eye Contact: May cause eye irritation.
Skin Contact: No irritation or reaction expected.
Inhalation: Not applicable.
Ingestion: May cause upset stomach, nausea (Abnormal entry route).
Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

4. FIRST AID MEASURES:

Eye Contact: Do not rub eyes. Flush eyes thoroughly with water for 15 minutes. If condition worsens or irritation persists, contact physician.
Skin Contact: Not applicable.
Inhalation: Not applicable.
Ingestion: Do not induce vomiting. Contact a physician or Poison Control Center.

5. FIRE FIGHTING MEASURES:

NFPA: Health 0 Fire 0 Reactivity 0

Flashpoint °F/°C (PMCC method): Not determined.
Unusual Fire and Explosion Hazards: None known.
Special Fire Fighting Procedures: None known.
Extinguishing Media: X Water Fog X Alcohol Foam X CO_2 X Dry Chemical ____ Other

6. ACCIDENTAL RELEASE MEASURES:

No special requirements. Water clean up and rinse. CAUTION – WILL CAUSE SLIPPERY SURFACES.

7. HANDLING AND STORAGE:

Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Eye Protection:	None required under normal conditions.
Skin Protection:	None required under normal conditions.
Respiratory Protection:	None required under normal conditions.
Ventilation:	None required under normal conditions.
Protective Equipment or Clothing:	None required under normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance and Odor	Pink pearlescent liquid, coconut fragrance
pH (undiluted):	4.5 – 9.5
VOC , %:	0

10. STABILITY AND REACTIVITY:

Stable/Non reactive product.

11. TOXICOLOGICAL INFORMATION:

No acute or chronic toxic effects expected when used according to directions.

12. ECOLOGICAL CONSIDERATIONS:

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

13. DISPOSAL CONSIDERATIONS:

No special considerations when disposed according to local, state and Federal regulations.

14. TRANSPORT INFORMATION:

Not classified as a hazardous material.

15. REGULATORY AND OTHER INFORMATION:

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(iv).

Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

Notice: The information herein is based on data considered to be accurate as of the date of preparation of this material safety data sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

The Clorox Company of Canada, Ltd.
150 Biscayne Crescent
Brampton, Ontario
L6W 4V3

Material Safety Data Sheet

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT NAME:	**FRESH SCENT CLOROX® DISINFECTING & CLEANING WIPES - Reg. No. 26296**	**PRODUCT IDENTIFICATION NUMBER:** Not applicable.
PRODUCT USE:	Moistened disinfecting and cleaning wipes	

MANUFACTURER	SUPPLIER
The Clorox Company of Canada, Ltd. 150 Biscayne Crescent Brampton, Ontario L6W 4V3 EMERGENCY PHONE NO.: 1-800-446-1014	The Clorox Company of Canada, Ltd. 150 Biscayne Crescent Brampton, Ontario L6W 4V3 EMERGENCY PHONE NO.: 1-800-446-1014

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Ingredient	% (w/w)	CAS Number	LD50 of Material (Specify Species & Route)	LC50 of Material (Specify Species)
n-Alkyl (5% C_{12}, 60% C_{14}, 30% C_{16}, 5% C_{18}) dimethyl benzyl ammonium chloride	0.1 - 0.2%	68391-01-5	Not available.	Not available.
n-Alkyl (68% C_{12}, 32% C_{14}) dimethyl ethylbenzyl ammonium chloride	0.1 - 0.2%	68956-79-6	Not available.	Not available.
Isopropyl alcohol	1 - 5	67-63-0	5 g/kg (rat, oral) 12.8 g/kg (rabbit, dermal)	22600 ppm (rat)

SECTION 3 - PHYSICAL DATA

Physical State: Liquid absorbed into non-woven wipes.	**Odour & Appearance:** Clear, colourless, thin liquid with a fruity odour absorbed into white, non-woven wipes.		**Odour Threshold:** Not available.	**Specific Gravity:** ≈1.0 for liquid
Vapour Pressure: N. Av.	**Vapour Density:** N. Av.	**Evaporation Rate:** N. Av.	**Boiling Point:** N. Av.	**Freezing Point:** N. Av.
% Volatile (by volume): > 98% for liquid	**Solubility in Water:** Appreciable for liquid	**pH:** 5.0 – 7.0	**Coeff. of Water/Oil Dist.:** Not available.	

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability: Liquid is Class B, Division 3 (Combustible Liquid). Do not use or store near heat or open flame. **Yes: X No: ___ If yes, under which conditions?** Liquid ignites but does not sustain combustion.		
Means of Extinction: Dry chemical, carbon dioxide (CO_2) foam, or water spray.		
Special Procedures: None.		
Flashpoint & Method: ≈48°C (closed cup) for liquid.	**Upper Flammable Limit (% by volume):** Not available.	**Lower Flammable Limit (% by volume):** Not available.
Autoignition Temperature: Not applicable	**Hazardous Combustion Products:** Products of combustion are toxic.	
Explosion Data - Sensitivity to Impact: Not applicable.	**Explosion Data - Sensitivity to Static Discharge:** Not applicable.	

SECTION 5 - REACTIVITY DATA

Chemical Stability: **Yes: X No: ___ If no, under which conditions?**	
Incompatibility with other substances: **Yes: X No: ___ If so, which ones?**	Mixing with sodium hypochlorite may release small amounts of formaldehyde gas.
Reactivity, if any, and under what conditions?	None known.
Hazardous decomposition products?	Products of decomposition are toxic.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Route of Entry? **Skin Contact:** _X_ **Skin Absorption:** ___ **Eye Contact:** _X_ **Inhalation Acute:** ___ **Inhalation Chronic:** ___ **Ingestion:** ___			
Effects of Acute Exposure to Material: Direct or prolonged eye or skin contact may result in irritation. May be harmful if swallowed or inhaled.			
Effects of Chronic Exposure to Material: None known.			
Exposure Limits (TLV, ACGIH): Isopropyl alcohol - 400 ppm - TWA 500 ppm - STEL	**Irritancy of Material:** Moderately irritating to eyes and slightly irritating to skin.	**Sensitization Property of Material:** Not a sensitizer.	**Carcinogenicity of Material:** Not a carcinogen.
Teratogenicity/Embryotoxicity: Not teratogenic or embryotoxic.	**Reproductive Toxicity:** Not a reproductive toxicant.	**Mutagenicity:** Not mutagenic.	**Synergistic Materials:** None known.

SECTION 7 - PREVENTATIVE MEASURES

Personal Protective Equipment:		
Gloves (specify): Wear rubber or nitrile gloves if there is the potential for repeated or prolonged skin contact.	**Respirator (specify):** In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.	**Eye (specify):** Safety glasses.
Footwear (specify): Not applicable.	**Clothing (specify):** Not applicable.	**Other (specify):** Not applicable.
Engineering Controls (specify, e.g. ventilation, enclosed process):	Use general ventilation to minimize exposure to product vapour or mist.	
Leak and Spill Procedure:	Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.	
Waste Disposal:	Dispose of used wipes in trash. Do not flush. Dispose of in accordance with existing federal, provincial, and municipal environmental regulations.	
Handling Procedures & Equipment:	Wash thoroughly with soap and water after using. Avoid contamination of food. In food preparation areas, wash disinfected surfaces with potable water before allowing contact with food. Not for personal cleansing. Not for use as a baby wipe.	
Storage Requirements:	Do not store near heat or open flame.	
Special Shipping Information:	Not restricted for rail or road shipment per TDG Regulations Part II.	

SECTION 8 - FIRST AID MEASURES

Eye Contact:	In case of eye contact, flush with plenty of water for 15 minutes. If irritation persists, get medical attention immediately.
Skin Contact:	In case of skin contact, wash thoroughly with soap and water. If on clothes, remove clothes immediately.
Ingestion:	If swallowed, drink two or three glasses of milk or water. Do not induce vomiting. Contact a physician or poison control center immediately.
Inhalation:	Remove to fresh air. If breathing problems develop, call a physician.

SECTION 9 - PREPARATION DATE OF MSDS

Prepared by (group, department, etc.)	**Phone Number:**	**Date:**
Clorox Services Company	1-925-425-6100	March 17, 2006 V1

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N. Av. = Not available.

N. Ap. = Not applicable.

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THE DIAL CORPORATION
CENTER FOR INNOVATION
15101 NORTH SCOTTSDALE ROAD
SCOTTSDALE, ARIZONA 85254

Material Safety Data Sheet

I Product: SOFT SCRUB WITH BLEACH CLEANSER, SOFT SCRUB WITH BLEACH - MOUNTAIN BREEZE

Description: WHITE, VISCOUS, FRAGRANCED BLEACH

Other Designations	Distributor	Emergency Telephone Nos.
Soft Scrub Mild Abrasive Cleanser With Bleach	The Dial Corporation 15101 N. Scottsdale Rd Scottsdale, AZ 85254 Tel. 1-888-468-6673	MEDICAL: 1-866-338-8517 CHEMTREC: 1-800-424-9300 (24 Hours Daily)

II Health Hazard Data

Eye irritant. May be irritating to skin. Some clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (e.g. irritation) occurs during exposure.

No medical conditions are known to be aggravated by exposure to this product.

FIRST AID:

EYE CONTACT: Flush eyes thoroughly with water for at least 15 minutes; then call a physician.

SKIN CONTACT: Wash skin with water.

INGESTION: Drink a glassful of water; then call a physician.

INHALATION: Remove to fresh air. If irritation or breathing problems persist, call a physician.

III Hazardous Ingredients

Ingredient	Concentration	Worker Exposure Limit
Calcium carbonate CAS # 1317-65-3	5 - 20%	10 mg/m3 - TLV-TWAa (total dust) 5 mg/m3 - PELb (respirable fraction)
Aluminum distearate CAS# 300-92-5	0 - 1%	10 mg/m3 TLV-TWAa
Sodium hypochlorite CAS # 7681-52-9	0.5 - 2%	Not established.
Sodium hydroxide CAS # 1310-73-2	< 1%	2 mg/m3 - TLV-Ceiling limitc

aTLV-TWA = ACGIH Threshold Limit Value-Time Weighted Average.
bPEL = OSHA Permissible Exposure Limit.
cTLV-Ceiling limit = ACGIH Threshold Limit Value-Ceiling limit.

None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.

IV Special Protection and Precautions

Hygienic Practices: Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.

Engineering Controls: None specified.

Personal Protective Equipment: Wear safety glasses. Wear nitrile, neoprene or natural rubber gloves if handling product for prolonged or repeated periods.

KEEP OUT OF THE REACH OF CHILDREN

V Transportation and Regulatory Data

DOT/IATA/IMO: Not restricted.

DOT Proper Shipping Name: n/a
TSCA Status: All components of this product are on the TSCA inventory.

EPA - SARA Title III/CERCLA: This product is a hazardous chemical reportable under Sections 311/312; contains no chemicals regulated under Section 313; and contains chemicals (sodium hypochlorite ≤ 2% and sodium hydroxide ≤ 1%) which are regulated under Section 304/CERCLA.

VI Spill Procedures/Waste Disposal

Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.

VII Reactivity Data

Stable under normal use and storage conditions.

Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegar, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.

VIII Fire and Explosion Data

Not flammable or explosive.

IX Physical Data

pH	~12.7
Specific gravity	~1.3
Viscosity	8 000 - 15000 cps

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DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH DATE PREPARED 04/06

The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: FH/H/2003/TWTA-5HRJZ8 Issue Date: May 9, 2006
Supersedes: MSDS issued March 4, 2004 Issue Date: Not Applicable

SECTION I - CHEMICAL PRODUCT

Identity: **Mr Clean Magic Eraser Original, Duo, Extra Strength** **Finished Product**

Brands: MR CLEAN Magic Eraser

P&G Telephone Number: 1-800-248-1612 or call your Poison Control Center or your physician

SECTION II - COMPOSITION AND INGREDIENTS

Mr. Clean Magic Eraser is a melamine foam with cleaning agents.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

Chemical Name	Common Name	CAS No.	Composition Range (Wet Chemistry	LD50/LC50
None				

SECTION III - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: Blockage of the gastrointestinal tract may occur if swallowed. Do not ingest

Eye Contact: Irritating to eye

Skin Contact: Irritating to skin

Inhalation: Ensure adequate ventilation

Signs and Symptoms of Exposure:

Ingestion: May caust irritation and/or bloacage of the gastroinstestinal track.

Eye Contact: Dust from foam may cause mechanical irritation.

Skin Contact: Dust from foam may cause mechanical irritation.

Inhalation: Dust from foam may cause irritation of the respiratory track.

Medical Conditions Generally Known to be Aggravated by Exposure:

Potential Environmental Effects: (See Section 12 for more information)

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: If foam is ingested, contact a physician or veterinarian immediately. Intestinal blockage may be life threatening to some household pets.

Eye Contact: In case of eye irritation, flush thoroughly with water for 15 minutes. If irritation persisits, seek medical advice.

Skin Contact: In case of skin irritation, flush affected area thoroughly with water and apply a cold compress. If irritation persists, seek medical advise. Remove any contaminated clothing.

Inhalation:If respiratioy irritation occurs, moving from the site of exposure to an area with fresh air. If irritation perists, seek medical advise.

Note to Physician: (if applicable): Treat symptomatically.

Other: Consumer product package has the following precautionary statement: “Caution: keep out of reach of children. Keep out of reach of toddlers and pets to avoid accidental ingestion. Do not use on skin or other parts of the body. Using on skin will likely cause abrasions.”

SECTION V - FIRE FIGHTING INFORMATION

Flammable Properties: 580 C/ 1076F

Extinguishing Media:

Suitable: Regular dry chemical, carbon dioxide, water, regular foam. For large fires: use regulary foam of flood with fine water spray.

Unsuitable: NA

Protection of Firefighters:

Specific Hazards Arising from the Material: Dust / air mixture may cause explosion.

Protective Equipment and Precautions for Firefighters:

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None Known

Environmental Precautions: Disposal is to be performed in compliance with all Federal, State, Provincial and Local Regulations.

Methods for Containment: Collect spilled material in an approporate container for disposal.

Methods for Cleanup: Keep out of water supplies and sewers.

Other Information: (if applicable) Keep unnecessary people away, isolate hazard and deny entry to area.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: None known.

Precautions To Be Taken in Storage:: None known.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines:

Engineering Controls: Provide local ventilation

Personal Protective Equipment (PPE): Under conditions of frequent use or heavy exposure, respiratory protection may be needed. (Any chemical cartridge respirator with an organic vapor cartridge(s), dust and mist filter(s)).

Eye/Face Protection: Provide an emergenacy eye wash fountain and quick drench shower in the immediate work area.

Skin Protection: Do not rub on skin, foam can cause abrasion to skin.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape):	**Flash Point (Method Used)**: NK
White and Yellow foam	
Odor: None	**Explosive Limits**: *LEL:* *UEL*:
Odor Threshold: Not applicable	**Auto-Ignition Temperature:** NK
Physical State: foam	**Decomposition Temperature:** NK
Vapor Pressure (mm Hg): NK	**Evaporation Rate (nBuOAc=1)**: NK
Vapor Density (Air=1): NA	**Specific Gravity/Density:** NK
Boiling Point: NA	**Melting/Freezing Point:** NK
Partition Coefficient (n-octanol/water): NA	**pH:** Not applicable
Solubility in Water: Yes	**Reserve Alkalinity:** Not applicable

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and pressures

Conditions to Avoid: Avoid heat, flames, sparks, and other sources of ignition. Avoid contact with incompatable materials.

Incompatible Materials: Oxizidizing materials

Hazardous Decomposition Products: Oxides of carbon, oxides of sulfur, aromatic compounds, formaldehyde, hydrogen cyanide.

Possibility of Hazardous Reactions: None known

SECTION XI - TOXICOLOGICAL INFORMATION

Do not use on skin or other parts of the body. Using on skin will likely cause abrasions.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: NTP: No **IARC:** No **OSHA:** No

SECTION XII - ECOLOGICAL INFORMATION

Not available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Industrial Setting: Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state/provincial and federal regulations.

Household Use: Product used in household may be disposed of in refuse.

SECTION XIV - TRANSPORT INFORMATION

Ground Transport (US DOT): Not Regulated

Air Transport (IATA): Not Regulated

Marine/Water Transport (IMDG): Not Regulated

SECTION XV - ADDITIONAL REGULATORY INFORMATION

While this finished product is not considered hazardous as defined by OSHA in 29 CFR 1910.1200 (d), this MSDS contains valuable information critical to the safe handling and proper use of the product.

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Reg. No: Not applicable

This product is not subject to warning labeling under California Proposition 65.

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

SECTION XVI - OTHER INFORMATION			
P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable *N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.

PRO-LINK

MATERIAL SAFETY DATA SHEET

PRO-LINK
510 CHAPMAN STREET
CANTON, MA 02021

PH: 781-828-9550
FX: 781-828-9551

Data Sheet No. _____
Issue Date 5/7/99
Issued By J. Irwin

SECTION 1

Trade Name/Synonyms	1401 Urinal Screen - Red/Cherry
Chemical Name/Synonyms	
Chemical Family/Formula	

SECTION 2 - Product/Component Data

Component(s) Chemical Name	CAS Registry	% Approx.	OSHA/PEL	ACGIH TLV-TWA
Di (2-Ethylhexy 1) Phthalate	117-81-7	<45.0	5mg/m# 5mg/m3	

SECTION 3 - Physical Data

Boiling Point (F)	Data Not Available	**Specific Gravity (H O = 1)**	1.39
Vapor Pressure (mm Hg)	Data Not Available	**%, Volatile by Volume**	
Vapor Density (Air = 1)	N/A	**Evaporation Rate (_ = 1)**	N/A
Solubility in Water	N/A	**Melting Point**	330 F
Appearance and Odor	Pellet, slight odor		

SECTION 4 - Fire & Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UCL
N/A		N/A	N/A

Extinguishing Media Water is most effective. ABC dry chemical, APPP and protein type air foam

Special Fire Fighting Procedures self-contained breathing apparatus and turnout equipment should be worn

Unusual Fire & Explosion Hazards None under normal processing conditions

NFPA Codes: **Health:** **Flammability:** **Reactivity:**

NE = Not Established
NA = Not Applicable

SECTION 5 - Health Hazard Data

Route(s) of Entry

Inhalation: Yes (as fumes) Skin: No Ingestion: Yes

Effects of Overexposure Health Hazards: Contains hazardous chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right To Know Act of 1986. Fumes produced during normal hot melt processing may cause irritation to the eyes, respiratory tract or skin of employees who may be sensitive to these fumes.

Emergency/First Aid Procedures

Thoroughly wash skin with soap and water. If affected by fumes, remove to fresh air. If swallowed, induce vomiting by means of finger in throat, salt water, or syrup of Ipecak. Call physician.

SECTION 6 - Reactivity Data

Stability X **Stable** __ **Unstable**

Conditions to Avoid Avoid prolonged/excessive heating; 1 hr. at 350 F 10 mins.; at 400 F and 5 mins. at 450 F.

Incompatibility (Materials to Avoid) Oxidizing agents

Hazardous Decomposition Products Hydrogen chloride, carbon monoxide and carbon dioxide

Hazardous Polymerization ___ **May Occur** _X_ **Will Not Occur**

Conditions to Avoid None during normal use

SECTION 7 - Spill or Leak Procedures

Steps To Be Taken In Case Material is Released/Spilled

Normal housekeeping procedures

Waste Disposal Method

Do not incinerate. Dispose of waste in a licensed landfill in accordance with federal, state, and local regulations.

SECTION 8 - Special Protection Information

Respiratory Protection (Specify Type) Not under normal processing conditions using adequate ventilation.

Ventilation

Local Exhaust As needed to remove fumes. **Special** N/A

Mechanical (General) As needed to remove fumes. **Other** N/A

Protective Gloves Heat impervious gloves to handle hot melt

Eye Protection Safety glasses in all industrial workplaces

Other Protective Equipment Not normally required.

SECTION 9 - Special Precautions

Precautions To Be Taken In Handling and Storing

None - Always practice good housekeeping and hygienic measures.

This information is given in good faith but no warranty, expressed or implied, is made. Impact Products, Inc. believes that it is accurate to the best of its knowledge and relates only to the specific material designated herein.

MATERIAL SAFETY DATA SHEET

OSHA - Meets 29 CFR 1910.1200 Standards

HMIS HAZARD RATINGS

HEALTH	2	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	2	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Environmentally hazardous substance, solid, n.o.s. (p-dichlorobenzene)		
HAZARD CLASS / PKG GRP:	9 / III	REF:	49 CFR 173.155, .213, .240
IDENTIFICATION NUMBER:	UN 3077	LABEL:	Miscellaneous

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)
PARADICHLOROBENZENE BLOCKS **(08161, 08241, 08411, 06301, 06311, 06931, 06401, 06411, 06901, 01931, 01991)**

MANUFACTURER'S NAME Hospital Specialty Company	EMERGENCY TELEPHONE NUMBER CHEM • TEL (800) 255-3924 Outside USA (813) 248-0585
ADDRESS (NUMBER, STREET, P.O. BOX) 670 Alpha Drive	TELEPHONE NUMBER FOR INFORMATION (440) 720-1800
(CITY, STATE AND ZIP CODE) Highland Heights, OH 44143	DATE PREPARED: April 21, 2005 SUPERSEDES: December 15, 2001; March 18, 2002

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS #	% (OPTIONAL)	OSHA PEL PPM	OSHA PEL MG/M^3	ACGIH TWA PPM	ACGIH TWA MG/M^3	SARA TITLE III	RQ LBS
p-Dichlorobenzene (a,b,c,d,e,f)	106-46-7	60 - 100	75	450	10		Yes	100

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of SARA Title III of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

(b) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulations in 40 CFR 260-281.

(c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 100 lbs) or greater amounts, according to 40 CFR 302.

(d) Indicates substance appears on National Toxicology Program (NTP) list of carcinogens, International Agency for Research on Cancer (IARC) list of carcinogens or is regulated by the Occupational Safety and Health Administration (OSHA) as a possible carcinogen.

(e) California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986, chemicals known to the state to cause cancer or reproductive toxicity. A person in the course of doing business must warn others who may consume, come into contact with, or otherwise be exposed to this chemical.

(f) Product is listed or defined as a marine pollutant in IMDG Code or 49 CFR 172.101 Appendix B, List of Marine Pollutants and must be classified as an Environmentally Hazardous Substance, Class 9, in addition to any other defined hazards for this product.

SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
INHALATION: Inhalation of dust or vapors may irritate the respiratory tract; may cause headache, dizziness, nausea, vomiting, weight loss and liver and kidney damage. May also cause swelling around the eyes and runny nose.	Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.
SKIN: Causes skin irritation, with a slight burning sensation. Red blotching of the skin due to allergic reactions may occur. May be absorbed through the skin; symptoms may parallel inhalation.	Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.
EYES: Contact causes severe irritation and pain associated with redness and swelling of the conjunctiva.	Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.
INGESTION: Material is toxic; may cause headache, dizziness,; may cause headache, dizziness, diarrhea and general weakness; swallowing can produce adverse health effects paralleling inhalation.	Give two glasses of water for dilution; Induce vomiting by sticking fingers down throat; never give anything by mouth to an unconscious person; seek medical attention.

CARCINOGENICITY NTP? Yes IARC MONOGRAPHS? Yes OSHA REGULATED? No

p-Dichlorobenzene is listed as an anticipated carcinogen by NTP and 2B possibly carcinogenic to humans by IARC.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

IDENTITY (AS USED ON LABEL AND LIST)	(08161, 08241, 08411, 06301, 06311, 06931,	Page 2 of 2
PARADICHLOROBENZENE BLOCKS	06401, 06411, 06901, 01931, 01991)	Date: March 18, 2002

SECTION 4 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)	NFPA RATING	FLAMMABLE LIMITS
151º F (66º C) CC	**IIA**	LEL: 2.5% UEL: 16.0%

EXTINGUISHING MEDIA

Carbon dioxide, water, water fog, dry chemical, chemical foam

SPECIAL FIRE FIGHTING PROCEDURES

Airborne dusts may form explosive mixtures if allowed to concentrate in confined area. Contact with strong oxidizers may cause fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 5 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: COMBUSTIBLE. Evacuate and ventilate area; avoid breathing dust. Recover and segregate product for reuse; shovel product into approved container for disposal.; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 and SARA Title III, Section 313 40 CFR 372 for detailed instructions concerning reporting requirements. Do not discharge into lakes, ponds, streams or public waters. P-Dichlorobenzene is listed as a Marine Pollutant.

SECTION 6 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: This material is combustible. It should be stored in tightly closed containers in a cool, dry, well ventilated area. Vapor may form explosive mixtures in air. All sources of ignition should be controlled. Keep this and other chemicals out of reach of children. Avoid inhaling concentrated fumes or vapors.

SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

VENTILATION	LOCAL EXHAUST: Required	SPECIAL: To maintain minimum TWA and STEL levels.
	MECHANICAL (GENERAL): Yes	OTHER: Engineering and work controls as required.

PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.	EYE PROTECTION: Protective eyeglasses or chemical safety goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT	SPECIFIC GRAVITY (WATER = 1)
345º F (174º C)	1.500
VAPOR PRESSURE (MM Hg)	pH
0.6 mm Hg @ 20° C	Not determined
VAPOR DENSITY (AIR = 1)	EVAPORATION RATE (WATER = 1)
5.08	Not applicable
SOLUBILITY IN WATER	% VOLATILE (BY WEIGHT)
Practically insoluble in water.	100% @ 70º F
APPEARANCE AND ODOR	
White / pink solid blocks, penetrating mothball odor	

SECTION 9 - STABILITY AND REACTIVITY

STABILITY	UNSTABLE:	CONDITIONS TO AVOID: Extreme temperatures, open flames, avoid generating airborne dust
	STABLE: XXX	

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing agents, aluminum and its alloys

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May produce carbon monoxide, carbon dioxide, hydrogen chloride and phosgene when heated to decomposition.

HAZARDOUS POLYMERIZATION	MAY OCCUR:	CONDITIONS TO AVOID:
	WILL NOT OCCUR: XXX	None

SECTION 10 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce concentrated hazardous vapors or fumes in a disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for ignitable materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Date: 15 October 2007
Supercedes: 15 November 2004

MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:

Product Name: **PURELL® HAND SANITIZER WITH ALOE**

Company Name & Address: GOJO Industries, Inc.
One GOJO Plaza, Suite 500
Akron, OH 44311

Emergency Phone: **1-800-424-9300 CHEMTREC**
Non-Emergency Phone: (330) 255-6000
MSDS Request Phone: (330) 255-6000 x8804

2. INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	62
Isopropanol	67-63-0	400 ppm	400 ppm	<5

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Ethyl Alcohol	64-17-5	MA 1; NJ 1S; PA 1; CN 2
Isopropanol	67-63-0	MA 1; NJ 1S; CN 1

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

Potential Health Effects:

HMIS: Health 1 Flammability 3 Reactivity 0 Personal Protection None

Eye Contact: May cause eye irritation.
Skin Contact: No irritation or reaction expected.
Inhalation: Not applicable.
Ingestion: May cause upset stomach, nausea (Abnormal entry route).
Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

4. FIRST AID MEASURES:

Eye Contact: Do not rub eyes. Flush eyes thoroughly with water for 15 minutes. If condition worsens or irritation persists, contact physician.
Skin Contact: Not applicable.
Inhalation: Not applicable.
Ingestion: Do not induce vomiting. Contact a physician or Poison Control Center.

Purell is a trademark of Warner-Lambert Company LLC

5. FIRE FIGHTING MEASURES:

NFPA:	Health 0 Fire 3 Reactivity 0
Flashpoint °F/°C (PMCC method):	74°F/23°C
Unusual Fire and Explosion Hazards:	Product is flammable due to alcohol content.
Special Fire Fighting Procedures:	None known.
Extinguishing Media:	X Water Fog X Alcohol Foam X CO_2 X Dry Chemical ____ Other

6. ACCIDENTAL RELEASE MEASURES:

Avoid contact with ignition sources since product is flammable. Absorb onto inert material and dispose in appropriate manner. Water clean up and rinse. CAUTION – WILL CAUSE SLIPPERY SURFACES.

7. HANDLING AND STORAGE:

Keep away from fire or flame. Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Eye Protection:	None required under normal conditions.
Skin Protection:	None required under normal conditions.
Respiratory Protection:	None required under normal conditions.
Ventilation:	None required under normal conditions.
Protective Equipment or Clothing:	None required under normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance and Odor	Clear green liquid, floral fragrance
pH (undiluted):	4.5 – 9.5
VOC , %:	65

10. STABILITY AND REACTIVITY:

Stable/Non reactive product. Avoid ignition sources.

11. TOXICOLOGICAL INFORMATION:

No acute or chronic toxic effects expected when used according to directions.

12. ECOLOGICAL CONSIDERATIONS:

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

13. DISPOSAL CONSIDERATIONS:

Characteristic hazardous waste-flammable liquid. Dispose according to local, state and Federal regulations.

14. TRANSPORT INFORMATION:

Hazardous by transport regulations. When transported by Ground and Rail, this product typically is shipped as Consumer Commodity ORM-D. When transported by air, this product is typically shipped as Consumer Commodity or Alcohols N.O.S. depending on package size. When transported by ocean, this product is typically shipped as Limited Quantities. Refer to current regulations for exact requirements.

15. REGULATORY AND OTHER INFORMATION:

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(iv).

Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

Notice: The information herein is based on data considered to be accurate as of the date of preparation of this material safety data sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

The Clorox Company
1221 Broadway
Oakland, CA 94612
Tel. (510) 271-7000

Material Safety Data Sheet

I Product: FORMULA 409® GLASS & SURFACE CLEANER

Description: CLEAR, FRAGRANCED LIQUID

Other Designations	Distributor	Emergency Telephone Nos.
	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrac (800) 424-9300

II Health Hazard Data

Eye contact may result in temporary conjunctival redness. Under normal consumer use and conditions, the likelihood of adverse health effects is low.

No medical conditions are known to be aggravated by exposure to this product.

FIRST AID:
EYE CONTACT: Remove contact lenses. Flush eyes thoroughly with plenty of water for 15 minutes. If irritation occurs, get medical attention.

SKIN CONTACT: Wash area with soap and water. If irritation occurs, get medical attention.

INGESTION: Drink a glassful of water. Get medical attention.

INHALATION: If breathing problems occur, remove to fresh air.

III Hazardous Ingredients

Ingredient	Concentration	Worker Exposure Limit
n-Propoxypropanol CAS #1569-01-3	1-5%	Not established

None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.

IV Special Protection and Precautions

Hygienic Practices: Wear safety glasses. Wash hands with soap and water after use. Wear chemical resistant gloves if repeated or prolonged use.

Engineering Controls: Use general ventilation to minimize exposure to vapor or mists.

Work Practices: Avoid eye and skin contact and inhalation of vapor or mist.

V Transportation and Regulatory Data

DOT/IATA/IMO: Not restricted

TSCA Status: All ingredients in this product are listed on the TSCA inventory.

EPA - SARA Title III/CERCLA:
Packaged product is not reportable Sections 311/312. This product contains no chemicals which are regulated under Section 313 or under Section 304/CERCLA.

VI Spill Procedures/Waste Disposal

Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed down material. For spills of multiple products, responders should evaluate the MSDS's of the products for incompatibility with this product.

Waste Disposal: Dispose of in accordance with all applicable federal, state and local regulations.

VII Reactivity Data

Stable under normal use and storage conditions.

Conditions to avoid: High temperatures and strong acids, bases, and oxidizers.

VIII Fire and Explosion Data

Flash Point: > 200 °F

Products of Combustion: Thermal decomposition or burning may produce toxic vapors or gases, including oxides of carbon and nitrogen.

Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO_2), foam or water spray.

IX Physical Data

pH ..... 9 - 11.5
Specific gravity ..... ~1.0
Solubility in water ..... Soluble

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DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH DATE PREPARED 8/07

Cantol

MATERIAL SAFETY DATA SHEET

SECTION 1 – MATERIAL IDENTIFICATION AND USE

MATERIAL NAME IDENTIFIER: **EZE-FLO - Fumeless Alkaline Liquid Drain Opener and Cleaner**

MANUFACTURERS NAME/ADDRESS

Cantol Limited
199 Steelcase Road West
Markham, ON L3R 2M4

CONTACTS

Canutec (24 hours)
(613) 996-6666
Web: www.cantol.com

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD_{50} OF MATERIAL (SPECIFY SPECIES AND ROUTE)	LC_{50} OF MATERIAL (SPECIFY SPECIES)
Potassium Hydroxide	**40-70**	**1310-58-3**	**365 mg/kg, ORAL, RAT**	**NONE**

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE GAS ☐ LIQUID ☒ SOLID ☐	ODOUR AND APPEARANCE **Clear red liquid with no odour**		ODOUR THRESHOLD (PPM) **Not Applicable**	
VAPOUR PRESSURE (mm Hg.) **Practically Zero**	VAPOUR DENSITY (AIR=1) **Not Applicable**	EVAPORATION RATE **Not Applicable**	BOILING POINT (°C) **133 (271°F)**	FREEZING POINT (°C) **-29 (-20°F)**
% VOLATILE (BY VOLUME) **Not Available**	SOLUBILITY IN WATER (20°C) **Complete**	pH **13.0 @ 1% Soln.**	SPECIFIC GRAVITY **1.45**	COEFF. WATER OIL DIST. **Not Available**

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMMABILITY
YES ☐ NO ☒ IF YES, UNDER WHICH CONDITIONS? ▶

MEANS OF EXTINCTION **Not Applicable**

SPECIAL PROCEDURES **Wear protective clothing. Product is highly alkaline. Self-contained breathing apparatus should be worn in areas where stored.**

FLASHPOINT (C°) AND METHOD **Not Applicable**	UPPER EXPLOSION LIMIT (% BY VOLUME) **Not Applicable**	LOWER EXPLOSION LIMIT (% BY VOLUME) **Not Applicable**
AUTO IGNITION TEMPERATURE (°C) **Not Applicable**	TDG FLAMMABILITY CLASSIFICATION **Not Applicable**	HAZARDOUS COMBUSTION PRODUCTS **None**

EXPLOSION DATA ▶	SENSITIVITY TO IMPACT **Not Available**	RATE OF BURNING **Not Available**	EXPLOSIVE POWER **Not Available**	SENSITIVITY TO STATIC DISCHARGE **Not Available**

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY
YES ☒ NO ☐ IF NO, UNDER WHICH CONDITIONS? ▶

COMPATIBILITY WITH OTHER SUBSTANCES
YES ☐ NO ☒ IF NO, WHICH ONES? ▶ **Acids, aluminum, tin, zinc, combustible material, organohalogens, aldehydes.**

REACTIVITY, AND UNDER WHAT CONDITIONS: **Reacts with aluminum, tin, zinc to generate hydrogen gas. Contact with water may generate heat. Reacts with food sugars to generate carbon monoxide.**

HAZARDOUS DECOMPOSITION PRODUCTS: **NONE**

EZE-FLO

SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY

SKIN CONTACT [✘] SKIN ABSORPTION [ ] EYE CONTACT [✘] INHALATION ACUTE [ ] INHALATION CHRONIC [ ] INGESTION [✘]

EFFECTS OF ACUTE EXPOSURE TO MATERIAL

Corrosive to skin and eyes. Harmful if swallowed.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL

None Known

LD_{50} OF MATERIAL SPECIFY SPECIES AND ROUTE	LC_{50} OF MATERIAL SPECIFY SPECIES	EXPOSURE LIMIT OF MATERIAL	IRRITANCY OF MATERIAL
Not Available	**Not Applicable**	**ACGIH TLV for Potassium Hydroxide 2mg/m3**	**Causes severe burns to skin and eyes**

SENSITIZING CAPABILITY OF MATERIAL	CARCINOGENICITY OF MATERIAL	REPRODUCTIVE EFFECTS OF MATERIAL	SYNERGESTIC MATERIALS
Not Available	**None**	**None**	**None Known**

SECTION 7 – PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Gloves, eye protection

GLOVES (SPECIFY)	RESPIRATORY (SPECIFY)	EYE (SPECIFY)
Rubber, Neoprene, Plastic	**None**	**Goggles**

FOOTWEAR (SPECIFY)	CLOTHING (SPECIFY)	OTHER (SPECIFY)
None	**None**	**None**

ENGINEERING CONTROLS (SPECIFY E.G. VENTILATION ENCLOSED PROCESS)

None

LEAK AND SPILL PROCEDURE

Soak up spill with oil absorbant. Flush area with water.

WASTE DISPOSAL

Discard used absorbant in proper receptacle. Follow all government disposal regulations.

HANDLING PROCEDURES AND EQUIPMENT **Never add water to the container. Violent reaction can occur. Always add product slowly to water according to label directions. Wear gloves and goggles. Do not get in eyes, on skin or clothing.**

STORAGE REQUIREMENTS **Keep container closed. Do not store near combustible materials.**
KEEP OUT OF THE REACH OF CHILDREN.

SPECIAL SHIPPING INFORMATION

LTD. QTY.

SECTION 8 – FIRST AID MEASURES

EYES: Immediately flush with plenty of water for at least 15 minutes. Seek prompt medical attention.

SKIN: Flush with water immediately. Seek prompt medical attention.

INGESTION: Do not induce vomiting. Drink large quantities of water. Call a physician.

SOURCES USED

Canadian Centre for Occupational Health and Safety, Vendor Material Safety Data Sheets

ADDITIONAL INFORMATION

For industrial and institutional use only. Read and follow all label directions and precautions. Do not mix with other chemicals.

SECTION 9 – PREPARATION DATE OF THE MSDS

PREPARED BY	PHONE NUMBER	DATE
D1B, E **Cantol WHMIS Group**	**(905) 475-6141**	**February 1, 2007**

Pumice Scouring Stick

Item Number:100714

U.S. Department Of Labor
Occupational Safety And Health Administration

MATERIAL SAFETY DATA SHEET

Required Under USDL Safety And Health Regulations
(29 CFP 1910.1200 "Hazards Communication Standard")

Section I

Manufactured For: Gabriel First Corp.
Emergency Telephone: 1-800-424-9300
Address: 233 W Commercial Street East Rochester, NY 14445
Chemical Name & Synonyms: Cleaning, Compound, Liquid
Trade Name & Synonyms: Pumice Scouring Stick
Prepared On: 6/30/2005

Section I - Hazardous Ingredients/Identity Information

Section II - Product & Component Data

Component(s)/ Chemical Names	CAS Registry No	%	TLV	PEL
Pumice (Volcanic Glass) There is No Free Crystalline Silica Present				

Section III - Physical Data

Boiling Point: N/A
Specific Gravity (H_2O=1): N/A
Melting Point: 2390° F
Vapor Pressure: N/A
Percent, Volatile By Volume (%): N/A
Vapor Density (Air=1): N/A
Evaporation Rate: N/A
Solubility In Water: Not Soluble
Appearance And Odor: Odorless Solid

Section IV - Fire And Explosion Hazard Data

Special Fire Fighting Procedures: None.
Unusual Fire and Explosion Hazards: None
Flash Point/Method Used: N/A
Flammable Limits: N/A
LEL: N/A **UEL:** N/A
Extinguishing Media: N/A

Section V - Health Hazard Data

Route(s) of Entry:
Inhalation? Yes
Skin? No
Ingestion: Yes
Health Hazards (Acute and Chronic): Dry sawing or grinding may result in the release of dust particles which, acute, may cause irritation of eyes, nose or throat and chronic, may result in lung disease (Silicosis) if exposed for prolonged time.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure: Irritation of eyes, nose and throat or shortness of breath.
Medical Conditions Generally Aggravated by Exposure: Pre-existing lung disease such as Emphysema or Asthma.

Emergency First Aid Procedures: Irrigate eyes generously with clean water for 15 minutes. If irritation persists call a physician.

Section VI - Reactivity Data

Stability Conditions To Avoid
Stable None
Materials To Avoid: None
Hazardous Decomposition Products: None
Hazardous Polymerization **Conditions To Avoid**
Will Not Occur None

Section VII - Spill Or Leak Procedures

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up and properly dispose.
Waste Disposal Method: Dispose as common waste.
Precautions To Be Taken in Handling and Storing: None
Other Precautions: Wear NIOSH approved respirator and tight fitting goggles. When dry sawing or grinding, or saw and grind when wet.

Section VIII - Special Protection Information

Control Measures (When Sawing or Grinding)
Respiratory Protection (Type): NIOSH Approved Particulate Respirator
Ventilation: Mechanical (General) in Confined Area
Protective Gloves: When Required
Eye Protection: Tight Fitting Goggles
Other Protective Equipment: None
Work/Hygienic Practices: N/A

Section IX - Special Precautions

Precautions To Be Taken In Handling And Storing: None

This information is given in good faith, but no warranty expressed or implied is made. Our company believes that it is accurate to the best of its knowledge and relates only to the specific material designated herein.

Material Safety Data Sheet

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

NFPA Fire: 0
Health: 1
Reactivity: 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION

Manufacturer's Name, Address: Franklin Cleaning Technology - PO Box 214 Great Bend KS 67530

Product Name: Brillo Hotel Size Soap Pad
Product Number: W2400
Chemical Family: Steel wool with soap
Package Size: 12 pads

EPA Reg. No: n/a
Emergency Telephone No. 620-792-1711
Preparer: Bill Dayton
Date: 11/19/02
Signature: Bill Dayton

SECTION II - HAZARDOUS INGREDIENTS IDENTITY INFORMATION

Hazardous Components	CAS#	OSHA TWA	ACGIH TWA	Percent
*Steel Wool	None			
*Sodium tallate	8052-48-0			

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

No Physical Hazards	x	Flammable Gas		Flammable Liquid/Solid		Water Reactive	
Combustible		Flammable Aerosol		Pyrophoric		Oxidizer	
Compressed Gas		Explosive		Unstable - Reactive:		Organic Peroxide	

Boiling Point, °F: 212F
Solubility in Water: n/a
Evaporation Rate: None
Vapor Pressure: n/a
Specific Gravity (water =1): n/a
pH: 9
Vapor Density: n/a
%Volatiles by Weight: 0

Appearance and Odor: Steel wool with pink soap

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method): n/a
Flammable Limits: LEL: n/a
UEL: n/a
Extinguishing Media: n/a

Special Fire Fighting Procedures: n/a

Unusual Fire and Explosion Hazards: n/a

SECTION V - REACTIVITY DATA

Stability: Unstable [ ] Stable [x]
Conditions to Avoid: n/a

Incompatibility (Materials to Avoid): Mix only with water.

Hazardous Decomposition Products or Byproducts: None known

Hazardous Polymerization: May Occur: [ ] Will Not Occur: [x]
Conditions to Avoid: n/a

Comments:
*Added to comply with the Pennsylvania Worker Right to Know Act of 1984 and the New Jersey Worker & Community Right to Know Act of 1983.

SECTION VI - HEALTH HAZARD DATA

W2400

Route (s) of entry: Inhalation [x] Skin: [ ] Eye: [x] Ingestion: [ ]

No Health Hazard	[ ]	Reproductive toxin	[ ]	Sensitizer	[ ]
Toxic	[ ]	Irritant	[ ]	Carcinogen	[ ]
Highly Toxic	[ ]	Corrosive	[ ]	See Target Organs	[x]

TARGET ORGANS

Lungs	[ ]	Eyes	[x]	Blood	[ ]	Teratogen	[ ]	Mucous Membranes	[x]
Heart	[ ]	Skin	[x]	Liver	[ ]	Central Nervous System	[ ]	Autonomic Nervous System	[ ]
Kidney	[ ]	Prostrate	[ ]	Mutagen	[ ]	Cardiovascular System	[ ]	Respiratory System	[ ]

Carcinogenicity: None Known [x] NTP: [ ] IARC: [ ] OSHA Regulated [ ]

Medical Conditions Generally Aggravated by Exposure:
None known.

Signs and Symptoms of Exposure:
May cause eye irritation.

Emergency and First Aid Procedures:
In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists. If swallowed, get medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:
Small spill: Mop up, rinse with water. Large spill: Mop up, absorb with an inert absorbent, dike or turn over container as applicable.

Waste Disposal Method:
Small amount: Dispose in trash container. Large Amount: Dispose in accordance with Local, State, and Federal regulations.

Potential EPA Hazardous Waste Code(s): n/a

Steps to be taken in handling and storage:
Store at 40 - 90 F. Read and follow label use direction. Keep out of reach of children. Protect from freezing.

SECTION VIII - CONTROL MEASURES

Respiratory Protection(Specify Type):
None required

Ventilation: Local Exhaust: None required Special: None required
Mechanical: Optional

Protective Gloves: None required. Eye Protection: Optional

Other Protective Clothing and Equipment:
None required

SECTION IX - SHIPPING INFORMATION

DOT Proper Shipping Name and Number:
Not regulated

NE = Not Established
N/A = Not Applicable

MATERIAL SAFETY DATA SHEET

DATE PREPARED:07/08/2004
MSDS No:7202

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® Home Defense® MAX™ Perimeter & Indoor Insect Killer RTU Pull'N Spray
PRODUCT DESCRIPTION: Insecticide

MANUFACTURER
The ORTHO Group
P.O. Box 190
Marysville, OH 43040

24 HR. EMERGENCY TELEPHONE NUMBERS
CHEMTREC (U.S.): (800) 424-9300
Emergency Phone: 1-800-225-2883

EPA REG. NO.: 239-2663D **PN:** 6061

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS#
Bifenthrin	0.05	82657-04-3
Other Ingredients	99.95	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
IMMEDIATE CONCERNS:

CAUSES MODERATE EYE IRRITATION
AVOID CONTACT WITH EYES OR CLOTHING
KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

EYES: This substance may cause moderate eye irritation. See Toxicological Information, section 11.

SKIN: This substance is not expected to cause skin irritation and is only slightly toxic if absorbed through the skin. See Toxicological Information, section 11.

INGESTION: This substance is slightly toxic if swallowed. The degree of injury will depend on the amount absorbed from the gut. See Toxicological Information, Section 11.

INHALATION: Overexposure to the spray mist may be irritating to the respiratory tract. If inhaled, this substance is considered practically non-toxic to internal organs. See Toxicological Information, section 11.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative - Pesticide Registration (PR) Notice 2001-1, January 2, 2001, and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None

EXTINGUISHING MEDIA: Use CO2, Dry Chemical or Foam extinguishing media.

HAZARDOUS COMBUSTION PRODUCTS: Heating this material may generate carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

FIRE FIGHTING PROCEDURES: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: While wearing rubber gloves, soak up spilled material with paper towels and discard in trash.

LARGE SPILL: Dike or contain release. Keep material out of lakes, streams, ponds, and sewer drains. Large spills should be covered to prevent dispersal. Absorb with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel, or pump all waste material, including absorbent, into drums and label contents for disposal. Clean spill area of residues and absorbent.

GENERAL PROCEDURES: Observe all protection and safety precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION".

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Store this product only in its original container in a secured storage area. Protect container from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is necessary under normal product use conditions. However, if workplace operating conditions create high airborne concentrations of the material, special ventilation may be needed to reduce levels below OSHA exposure limits.

PERSONAL PROTECTION

EYES AND FACE: For application of product in accordance with label instructions, no special eye protection is needed. Handling of this product during manufacturing or in the event of an accidental discharge of the material which could cause eye contact, workers should wear goggles or a face shield.

SKIN: Follow label precautions for skin protection. Avoid contact with skin and clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

RESPIRATORY: Avoid breathing vapor or mist. This product is not likely to pose an airborne exposure concern when handled and used in accordance with label instructions.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

		EXPOSURE LIMITS	
Chemical Name	**OSHA PEL**	**ACGIH TLV**	**ACGIH STEL**
Bifenthrin	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE: Clear to cloudy white liquid
pH: ~7.0 to 7.3
SOLUBILITY IN WATER: Miscible with water.
DENSITY: 8.32 Lbs/gal at 20°C

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: DO NOT APPLY THIS PRODUCT IN OR ON ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Rabbit - moderately irritating, irritation cleared by 48 hours. EPA FIFRA toxicity category - lll.

DERMAL LD_{50}: Rat = >10 g/kg. EPA FIFRA toxicity category - IV. SKIN IRRITATION: Rabbit - nonirritating, contact with bifenthrin may produce reversible skin sensations such as numbness, burning and tingling. The skin sensations usually subside within 12 hours. EPA FIFRA toxicity category - IV.

ORAL LD_{50}: Rat = > 5 g/kg. EPA FIFRA toxicity Category - IV.

INHALATION LC_{50}: Rat - 4 hour inhalation = > 5.0 mg/liter. EPA FIFRA toxicity category - IV.

SENSITIZATION: Guinea pig - no evidence of allergic skin reactions.

CHRONIC: CARCINOGENICITY : Mouse lifetime feeding study - high dose males - demonstrated an increase in urinary bladder hemangiopericytomas. There was no evidence of increased tumors in the other male or female mice dose levels. The mouse no observed effect level (NOEL) was male 75 mg/kg/dy, female 90 mg/kg/dy. Rat lifetime feeding study - no findings of tumors. The rat NOEL was 10 mg/kg/dy. EPA classified bifenthrin - Group C carcinogen.

NEUROTOXICITY: Bifenthrin has not been associated with delayed peripheral neuropathy. Overexposure to pyrethroids results in a transient disruption in the depolarization of nerve membranes by interfering with the closing of the sodium channels. Depending upon the degree of overexposure, signs of overexposure may be displayed by tremors, muscle fasciculations, ataxia, spasms, hyperexcitability, hyperactivity and convulsions. Localized skin contact with bifenthrin may result in temporay burning, tingling or numbness sensations.

TERATOGENICITY: Bifenthrin is not considered to be a teratogen (a substance that causes birth defects). The rat and rabbit developmental NOELs were 1 and 8 mg/kg/dy, respectively.

REPRODUCTIVE TOXIN: Bifenthrin is not considered to cause adverse reproductive effects. Results of a rat multigeneration reproduction study indicated no developmental toxicity or reproductive effects at the highest dose level of approximately 15 mg/kg/dy. The maternal toxicity NOEL was approximately 5 mg/kg/dy.

MUTAGENICITY: The results of a series of mutation testing indicate that bifenthrin has a low order of mutagenic potential.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: In soil, bifenthrin is stable over a wide pH range and degrades at a slow rate which is governed by soil characteristcs. Bifenthrin will also persist in aquatic sediments. Bifenthrin has a high Log Pow (>6.0), a high affinity for organic matter, and is not mobile in soil. Therefore, there is little potential for movement into ground water. There is the potential for bifenthrin to bioconcentrate (BCF = 11,750).

ECOTOXICOLOGICAL INFORMATION: This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds. This product is highly toxic to bees exposed to direct treatment on residues on blooming plants. Do not apply this product or allow it to drift to blooming plants if bees are visiting the treatment area.

13. DISPOSAL CONSIDERATIONS

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures.

PRODUCT DISPOSAL: Call local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any drain.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
PROPER SHIPPING NAME: Not Regulated
U.S. SURFACE FREIGHT CLASS: Insecticides, Fungicides, Insect or animal repellents or vermin exterminators, NOI, Other than poison

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA				
ACUTE: YES	**CHRONIC:** NO	**FIRE:** NO	**REACTIVITY:** NO	**PRESSURE GENERATING:** NO

STATE REGULATIONS
CALIFORNIA PROPOSITION 65: No ingredients on list.

GENERAL COMMENTS: Contact local authorities for disposal of large quantities of unused product.

16. OTHER INFORMATION

HMIS CODES
FLAMMABILITY: 0 **HEALTH:** 1 **PHYSICAL HAZARD:** 0

NFPA CODES
FIRE: 0 **HEALTH:** 1 **REACTIVITY:** 0

APPROVAL DATE: 07/08/2004

REVISION SUMMARY New MSDS

ADDITIONAL MSDS INFORMATION: NFPA/HMIS Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.

COMMENTS: Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

Gro Tec, Inc.

P.O. Box 290 - Madison, Ga 30650

Material Safety Data Sheet

PENNINGTON'S PRIDE KNOCK OUT WEED & GRASS KILLER Ready-To-Use

This product is used by Homeowners and Professionals

MSDS NO. PPR-55 AUG. 1997

SECTION 1 - PRODUCT IDENTIFICATION

Chemtrec Transport Emergency — Non-Transportation Emergency — Poison Control Center

Telephone: 1-800-424-9300 — Pennington/Gro Tec, Inc. 706-342-1234 — Atlanta: 1-800-282-5846

EPA Reg. Number: 524-330-59144 — CAS NO: Glyphosate; [1071-83-6]

Chemical Name: Glyphosate

Trade Name: Round Up L&G Herbicide Ready-To-Use

****

SECTION 2 - COMPOSITION

Component	Percentage	ACGIH Exposure Limit	OSHA Exposure Limit
Glyphosate [1071-83-6]	0.96%	TLV - N/E	PEL - N/E
Inert (water & surfactant)	99.04%	TLV - N/E	PEL - N/E

****

SECTION 3 - HEALTH HAZARD DATA

EMERGENCY OVERVIEW

A clear, light yellow, odorless liquid that:

* May cause gastrointestinal tract irritation if swallowed.

ROUTE(S) OF ENTRY: Inhalation and skin contact.

INGESTION: May cause gastrointestinal tract irritation.

EFFECTS OF EXPOSURE: Inhalation and dermal contact are to be the primary routes of occupational exposure to Green Charm Knock Out Ready-to-Use Systemic Weed and Grass Killer. Occupational exposure to this material has not been reported to cause significant adverse health effects. On the basis of available information, exposure to Green Charm Knock Out Ready-to-Use Systemic Weed and Grass Killer is not expected to produce significant adverse health effects when recommended safety precautions are followed.

****

SECTION 4 - FIRST AID

IF ON SKIN: Avoid contact with skin. In case of contact, wash affected area with soap and water.

****

SECTION 5 - FIRE & EXPLOSION HAZARDS

FLASH POINT: (212^0 F) Aqueous water base.

EXTINGUISHING MEDIA: Water Fog; CO_2 or Chemical Foam

SPECIAL FIRE FIGHTING PROCEDURES: Foam/Fog system preferred. Remove closed case goods from path of fire. Use fog nozzles if water is used. Use air supplied or canister breathing masks for protection against burning cases and containers. Evacuate people downwind.

UNUSUAL FIRE OR EXPLOSION HAZARDS: None

****

SECTION 6 - SPILL AND LEAK PROCEDURES

Observe all protection and safety precautions when cleaning up spills. Soak up with paper towels and discard in trash.

****

SECTION 7 - STORAGE & HANDLING

Storage: Use and store this product only in its original container. Store product in a secure storage area. Protect product from freezing.

Storage Temperatures: Ambient (Average Warehouse) Temperatures. Do not allow to freeze — Shelf Life: 1-2 Years

Handling: Wash thoroughly after handling and before eating or smoking. Keep children and pets out of treated areas until spray has dried.

****

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respirator Type: None required

Eye Protection: None

Gloves: Waterproof

Other Protection: Body covering clothing; shoes plus socks. KEEP OUT OF REACH OF CHILDREN.

****

SECTION 9 - PHYSICAL DATA

Physical Form: Aqueous Liquid | Color: Clear

Vapor Pressure: N/E | Bulk Density: N/A | Odor: Odorless

Specific Gravity: 1.0 | Flash Point: Aqueous water base | pH: 6.5- 7.0

****

SECTION 10 - REACTIVITY DATA

Stability: Stable., water base product | Polymerization: Will not occur

Conditions To Avoid: Storage above temperatures above 100 degrees will lead to non-hazardous decomposition.

Decomposition Products: If product becomes extremely hot; boiling; arsenic fumes may evolve.

****

SECTION 11 - TOXICOLOGICAL INFORMATION

LD_{50} ORAL (rat) * > 5000 mg/kg

LD_{50} DERMAL (rabbit) * > 5000 mg/kg

LC_{50} INHALATION (rat, 4-hour) > 8.99 mg/L

EYE IRRITATION (rabbit): Slightly irritating; All eyes clear by post-exposure day 2

SKIN IRRITATION (rabbit): Essentially non-irritating

SKIN SENSITIZATION (guinea pig): Patch testing produced no irritation and no sensitization. Not a sensitizing agent in the guinea pig.

*CHILD RESISTANT PACKAGING NOT REQUIRED

****

SECTION 12 - ECOLOGICAL INFORMATION

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters.

****

SECTION 13 - DISPOSAL

Disposal: To dispose of unused product, securely wrap original container in several layers of newspaper and discard in trash.

****

SECTION 14 - TRANSPORTATION

Proper Shipping Name: Green Charm Knock Out Weed & Grass Killer Ready-to-Use

Technical Name (if applicable):

UN Initial & Number: Not regulated Class: Packing Group: RQ: Not required

Hazard Labels: None required

****

SECTION 15 - REGULATORY INFORMATION

SARA HAZARD NOTIFICATION:

- Hazard Categories: N/A
- Section 313 Toxic Chemicals: N/A

IARC, NTP , OSHA Carcinogens: None listed

CALIFORNIA: No ingredients listed under Proposition 65.

****

SECTION 16 - OTHER INFORMATION

NOTICE FROM GRO TEC, INC.

The information contained herein is offered only as a guide to the handling of this specific material. Since such information does not relate to use of the material with any other material or in any process, any person using this information must determine for himself its suitability for any particular application. The buyer and user assumes all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.

ABBREVIATIONS KEY:
N/A = Not available or applicable
N/E = Not established
TLV=Threshold Limit Value
PEL=Permissible Exposure Limit

MATERIAL SAFETY DATA SHEET

S00857
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

S00857

HMIS CODES

Health	2
Flammability	2
Reactivity	0

PRODUCT NAME

SPRAYON® BLAST'EM® Wasp & Hornet Killer

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
Consumer Group - Industrial
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

21-MAY-07

INFORMATION TELEPHONE NO.

(800) 251-2486

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
91	64742-47-8	Heavy Aliphatic Solvent		
		ACGIH TLV	Not Available	0.2 mm
		OSHA PEL	Not Available	
5	67-63-0	2-Propanol		
		ACGIH TLV	400 ppm	33 mm
		ACGIH TLV	500 ppm STEL	
		OSHA PEL	400 ppm	
		OSHA PEL	500 ppm STEL	
0.5	51-03-6	Piperonyl Butoxide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
0.3	52645-53-1	Permethrin		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
2	124-38-9	Carbon Dioxide		
		ACGIH TLV	5000 ppm	760 mm
		OSHA PEL	5000 ppm	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Continued on page 2

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
165 °F PMCC	0.7	12.7

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

This product is toxic to fish. Do not allow product to enter groundwater, streams, lakes or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE CATEGORY

Not Available

Continued on page 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

Do not use in commercial food/feed handling establishments, restaurants or other sites where food/feed is commercially prepared or processed. Do not use in Federally Inspected meat and poultry plants.

Do not allow children or pets to contact treated surfaces until spray has dried. Do not spray air in rooms or use on plants. Avoid spraying vegetation directly. Apply as a surface spray only. Do not spray to contact food, feedstuffs or water supplies. Thoroughly wash dishes and food-handling utensils contaminated with this product. Remove pets and cover fish bowls before spraying.

Do not contaminate water, food or feed by storage or disposal. Do not store near heat or open flame. Store in cool area away from children.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

PROTECTIVE GLOVES

Wear chemical-resistant gloves to prevent skin contact.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.54 lb/gal	783 g/l
SPECIFIC GRAVITY	0.79	
BOILING POINT	<0 - 500 F	<-18 - 260 C
MELTING POINT	Not Available	
VOLATILE VOLUME	99 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

Volatile Weight 96.65 % Less Water and Federally Exempt Solvents

Continued on page 4

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

CAS No.	Ingredient Name				
64742-47-8	Heavy Aliphatic Solvent				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
67-63-0	2-Propanol				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5045 mg/kg
51-03-6	Piperonyl Butoxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
52645-53-1	Permethrin				
		LC50	RAT	4HR	Not Available
		LD50	RAT		410 mg/kg
124-38-9	Carbon Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water.

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 5

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.2, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.2, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION
No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.
TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 06/16/2003
MSDS No: 7181

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® Basic Solutions™ Wasp & Hornet Killer
PRODUCT DESCRIPTION: Insecticide (Aerosol)

MANUFACTURER
The ORTHO Group
P.O. Box 190
Marysville, OH 43040

24 HR. EMERGENCY TELEPHONE NUMBERS
CHEMTREC (U.S.): (800) 424-9300
Emergency Phone: 1-800-225-2883

EPA REG. NO.: 1021-1775-239A **PN:** 7074

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS#
Tetramethrin	0.2	7696-12-0
Sumithrin (Phenothrin)	0.2	26002-80-2
Other Ingredients	99.6	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION: Contents under pressure-keep away from heat and open flame.
Harmful if swallowed, inhaled or absorbed through the skin.
Avoid breathing vapors.
Avoid contact with eyes, skin or clothing.
KEEP OUT OF REACH OF CHILDREN.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: Substance may cause slight skin irritation. Avoid contact with open cuts or sores.

INGESTION: Ingestion may cause gastric irritation.

INHALATION: This substance may be irritating to the respiratory tract if inhaled.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Contains pyrethroids and petroleum distillates; vomiting may cause aspiration pneumonia. For skin effects, a highly efficient therapeutic agent for pyrethroid exposure is topical application of tocopherol acetate, (vitamin E).

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative - Pesticide Registration (PR) Notice 2001-1, January 2, 2001, and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: No Data Available

FLAMMABLE CLASS: Classified as Non-Flammable (Flame Extension Test Method, 16 CFR, 1500.45)

EXTINGUISHING MEDIA: C02, dry chemical, or foam.

HAZARDOUS COMBUSTION PRODUCTS: Product may support combustion and decompose giving off toxic gases of carbon monoxide, carbon dioxide, and nitrogen oxides.

EXPLOSION HAZARDS: Container may explode in heat of fire.

FIRE FIGHTING PROCEDURES: Evacuate area. Flood with water to cool containers. Apply water from a safe distance. Wear self-contained breathing appratus to fight large fires.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up spilled material with paper towels and discard in trash.

LARGE SPILL: Eliminate all sources of ignition in vicinity of spill or released vapor. Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent material. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water. For liquid spills that soak into the ground, contact the applicable Federal, State and or County Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 "DISPOSAL" for instructions. Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "Disposal". Any recovered spilled liquid should be similarly collected and disposed of. Do not contaminate water, foodstuffs or feed by storage or disposal.

GENERAL PROCEDURES: Observe all protection and safety precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION".

7. HANDLING AND STORAGE

GENERAL PROCEDURES: READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. Do not use near heat, open flame or any ignition source. Do not use around electrical equipment due to possible electrical shock hazard. Do not store near flame, sparks or hot surfaces. CONTAINER UNDER PRESSURE. Exposure to temperatures above 130° F may cause bursting. Do not puncture, incinerate, or store above 130°F.

HANDLING: READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE LABEL. Take precautions to avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mist. Mechanical ventilation should be used when handling product in enclosed spaces. Respirator protection not normally required when handling product as directed, but is recommended in the absence of proper ventilation.

STORAGE: Follow product label storage recommendations. Store in a cool, dry place away inaccessible to children and pets, away from heat, open flame, or other ignition sources. Do not contaminate feed or foodstuffs with product.

STORAGE TEMPERATURE: Do not store above 130 F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Read and observe label instructions for exposure controls/personal protection. No special ventilation is required under normal use conditions. However, if workplace operating conditions create airborne concentrations which exceed the recommended exposure standards (in Section 8), then special ventilation may be required.

PERSONAL PROTECTION

EYES AND FACE: Follow label precautions for product application. Avoid contact with eyes. Where there is potential for eye contact under manufacturing conditions, wear chemical goggles and have eye wash equipment available.

SKIN: Follow label precautions for skin protection. Avoid contact with skin and clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

RESPIRATORY: This material may be an industrial inhalation hazard and, unless ventilation is adequate, the use of approved respiratory protection is recommended. Follow label application instructions and avoid breathing vapors.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, DRINK, OR APPLY COSMETICS IN THE WORK AREA. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, using tobacco or the toilet.

COMMENTS: The ACGIH Threshold Limit Values (TLV) for nuisance (inert) dusts containing < 1% crystalline silica and no asbestos are: 10 mg/m3 inhalable particulates and 3 mg/m3 respirable particulate. The OSHA TLV is 15 mg/m3 total dust, 5 mg/m3 respirable fraction. Material exposure limits are for airborne 8-hour time-weighted averages and apply only to occupational exposures.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

		EXPOSURE LIMITS	
Chemical Name	**OSHA PEL**	**ACGIH TLV**	**ACGIH STEL**
Tetramethrin	None	None	None
Sumithrin (Phenothrin)	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Aerosol (liquified gases and liquid)
PERCENT VOLATILE: Less than 11%
VAPOR DENSITY: Heavier than air.

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Avoid contact with temperatures above 130° F. Contents under pressure.

INCOMPATIBLE MATERIALS: May react with strong acids, bases, or oxidizing agents such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY:

CARCINOGENICITY COMMENTS: None of the ingredients present in this product at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH, as being carcinogens.

COMMENTS: No acute toxicological data available for product (MGK MSDS Reference No. SAFER, EPA Registration No. 1021-1775, Wasp & Hornet Killer Aerosol).

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This material is highly toxic to fish. Keep out of any body of water. Do not contaminate water used for irrigation or domestic purposes. Do not contaminate water by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures.

PRODUCT DISPOSAL: Carefully follow all label directions and precautions. If necessary to dispose of a partially filled product container, secure cap and discard in the trash. Do not incinerate, puncture, or discard in home trash compactor.

GENERAL COMMENTS: This container may be recycled in the few but growing number of communities where (steel) aerosol can recycling is available. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE) If recycling is not available, wrap the container and discard in the trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
PROPER SHIPPING NAME: Consumer Commodity
PRIMARY HAZARD CLASS/DIVISION: ORM-D

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA			
ACUTE: YES	**FIRE:** YES	**REACTIVITY:** NO	**PRESSURE GENERATING:** YES

313 REPORTABLE INGREDIENTS: SUMITHRIN (CAS 26002-80-2). TETRAMETHRIN (CAS 7696-12-0) De Minimis Concentration for Section 313 is 1.0%.

TITLE III NOTES: Product contains no SARA Title 313 chemicals that exceed the reporting limits.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

16. OTHER INFORMATION

NFPA CODES
FIRE: 4 **HEALTH:** 1 **REACTIVITY:** 1

APPROVAL DATE: 06/26/2003

REVISION SUMMARY New MSDS

ADDITIONAL MSDS INFORMATION: NFPA Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.

GENERAL STATEMENTS: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It dose not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

COMMENTS: Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

MATERIAL SAFETY DATA SHEET

Date stamp: 01-Sep-2005 **MSDS Ref. No.:** 011771025 **Revision Number:** 5

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ORTHO® Indoor Insect Fogger
Description: Insecticide

Company
The Scotts Company
14111 Scottslawn Road
Marysville, OH 43041

24-HOUR EMERGENCY TELEPHONE NUMBERS:
CHEMTREC (U.S.): 1-800-424-9300
CHEMTREC (International): 1-703-527-3887
Non-Emergency Calls: 1-937-644-0011

EPA Registration No.: 239-2626
Formula No.: S1112

2. HAZARDS IDENTIFICATION

Labelling

Signal word: CAUTION.

Precautionary Statement Causes substantial but temporary eye injury. Do not get in eyes. Wear safety glases. Wear goggles. Harmful if absorbed through the skin. Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling. Keep out of reach of children.

Potential health effects

Eye contact: Irritating to eyes.
Skin contact: Irritation not expected.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Inhalation: May cause irritation of respiratory tract.

Aggravated Medical Conditions: Inhalation may aggravate asthma.
Principle routes of exposure: Skin, Eyes, Inhalation
Target organ effects: Irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Natural Pyrethrine	8003-34-7	0.05
Permethrin	52645-53-1	0.4
MGK 264, N-octyl bicycloheptene dicarboximide	113-48-4	0.4
Inert Ingredients	PROPRIETARY	99.115

4. FIRST AID MEASURES

Eye contact: Hold eye open and rins slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so be a poison control center or doctor. Do not give anything by mouth to an unconscious person

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferabley by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

5. FIRE-FIGHTING MEASURES

Flammable properties: Flammable aerosol. N.F.P.A. (Code 30B) Level I Aerosol.
Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam.
Explosion potential: Closed containers may rupture violently under fire conditions.
Explosive properties: Heating may cause an explosion..

Hazardous combustion products:	Toxic fumes may be produced.
Fire fighting procedures:	Select appropriate method to surround and extinguish fire. Flood with water to cool containers.
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Flammability Limits in Air:	No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear personal protective equipment
Environmental precautions:	Prevent product from entering drains
Methods for containment:	Control spill with dykes and absorb with inert absorbant material
Methods for cleaning up:	Detergent and water.

7. HANDLING AND STORAGE

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not use near heat. Do not use near an ignition source. Do not puncture or incinerate.

Storage: Store in a cool, dry area away from incompatible materials and heat sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:
Natural Pyrethrine	5 mg/m³ TWA	5 mg/m³ TWA
Permethrin	Not Listed	Not Listed
MGK 264, N-octyl bicycloheptene dicarboximide	Not Listed	Not Listed

Engineering controls Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard

Personal Protective Equipment

Eye/face protection: Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses with side shields or goggles. Face-shield.

Skin and body protection: No special protective clothing is required under normal workplace conditions. Wear suitable protective clothing if contact is anticipated during manufacturing.

Respiratory protection: If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists, and fumes.

General hygiene considerations: Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product..

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	**Appearance:**	clear
Color:	Light yellow	**Odor:**	solvent
Solubility:	Miscible	**Specific gravity:**	0.975
Density:	8.13 lbs/gal	**Flash point:**	165° F
Method:	TAG CC		

10. STABILITY AND REACTIVITY

Chemically Stable:	Yes
Conditions to avoid:	Temperatures above 130F.
Materials to avoid:	Oxidising agents (strong).
Hazardous decomposition products:	Toxic fumes and gases may be generated.
Possibility of hazardous reactions:	Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50/oral: >5 g/kg, rat
LD50/dermal: >5 g/kg, rabbit
LC50/inhalation: >5.98 mg/L, (vapor), rat
Eye effects: Mild eye irritation, rabbit
Skin effects: Mild skin irritation, rabbit
Sensitization: No sensitization, guinea pig

Chronic toxicity
Carcinogenic effects: The table below indicates whether each agency has listed any indgredient as a carcinogen.

Components	NTP:	IARC:	OSHA:
Natural Pyrethrine	Not listed	Not listed	Not listed
Permethrin	Not listed	3	Not listed
MGK 264, N-octyl bicycloheptene dicarboximide	Not listed	Not listed	Not listed

Ingestion: Ingestion may cause irritation to mucous membranes.
Inhalation: Possible irritation of the respiratory tract.
Target organ effects: Irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Toxic to aquatic organisms.
Persistence and degradability: Inherently biodegradable.
Bioaccumulative potential: No information available.
Mobility: Water contaminating.
Aquatic toxicity: No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: If partially filled, call the local solid waste agency or 1-800-CLEANUP for disposal instructions. Do not place product down any indoor or outdoor drain.
Contaminated packaging: If empty, place in trash or offer for recycling if available.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT
Proper shipping name: Consumer Commodity, ORM-D

15. REGULATORY INFORMATION

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Natural Pyrethrine	8003-34-7	0.454 kg final RQ 1 lb final RQ 1 lb final RQ	Not Listed
Permethrin	52645-53-1	Not Listed	Not Listed
MGK 264, N-octyl bicycloheptene dicarboximide	113-48-4	Not Listed	Not Listed

General Information Contact local authorities for disposal of large quantities of product

16. OTHER INFORMATION

NFPA: **Health:** 1 **Flammability:** 4 **Reactivity:** 0

HMIS: **Health:** 1 **Flammability:** 4 **Reactivity:** 1

Hazard Rating: 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

EPA FIFRA Comment: Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

General comment: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

Revision date: 10-May-2005

Additional Information: This information contained herein is, to the best of Scott's knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Scotts shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Scotts shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

MATERIAL SAFETY DATA SHEET

S00859
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

S00859

HMIS CODES

Health	2
Flammability	2
Reactivity	0

PRODUCT NAME

HIT SQUAD Industrial Insecticide

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
Consumer Group - Industrial
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

04-JUN-03

INFORMATION TELEPHONE NO.

(800) 251-2486

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
5	64741-65-7	Mineral Spirits (Odorless)		
		ACGIH TLV	100 ppm	1 mm
		OSHA PEL	100 ppm	
92	64742-47-8	Heavy Aliphatic Solvent		
		ACGIH TLV	Not Available	0.1 mm
		OSHA PEL	Not Available	
0.3	Proprietary	Fenvalerate		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
3	124-38-9	Carbon Dioxide		
		ACGIH TLV	5000 ppm	
		OSHA PEL	5000 ppm	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Continued on page 2

Section 4 -- FIRST AID MEASURES

If INHALED:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
If on SKIN:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
If in EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
If SWALLOWED:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
175 F TCC	1.0	8.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water.

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Store container upright to prevent leakage. Avoid storage near feed or food products.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Continued on page 3

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Do not spray to contact food, feedstuffs or water supplies. Thoroughly wash dishes and food-handling utensils contaminated with this product.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.68 lb/gal	800 g/l
SPECIFIC GRAVITY	0.80	
BOILING POINT	<0 - 484 F	<-18 - 251 C
MELTING POINT	Not Available	
VOLATILE VOLUME	99 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

Volatile Weight 96.50 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Continued on page 4

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

CAS No.	Ingredient Name				
64741-65-7	Mineral Spirits (Odorless)				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-47-8	Heavy Aliphatic Solvent				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
Proprietary	Fenvalerate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		451 mg/kg
124-38-9	Carbon Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Continued on page 5

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

BASF

The Chemical Company

Safety data sheet
AMDRO PRO

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: (800) 424-9300
BASF HOTLINE: (800) 832-HELP

Substance number:	000000062027
Molecular formula:	C25 H24 F6 N4
Molecular weight:	494.5 g/mol
Chemical family:	amidinohydrazone
Synonyms:	hydramethylnon (active ingredient)

2. Composition/information on ingredients

CAS Number	Content (W/W)	Chemical name
67485-29-4	0.73 %	hydramethylon
	99.27 %	Proprietary ingredients

3. Hazard identification

Emergency overview

CAUTION: HARMFUL IF ABSORBED THROUGH SKIN.
May cause moderate but temporary irritation to the eyes.
MAY BE HARMFUL IF SWALLOWED.
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
Avoid contact with the skin, eyes and clothing.

Potential health effects

See Product Label for additional precautionary statements.

Primary routes of exposure
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:
Relatively nontoxic after single ingestion. Slightly toxic after short-term skin contact.

Irritation:
May cause slight but temporary irritation to the eyes. May cause moderate irritation to the skin.

Sensitization:
Skin sensitizing effects were not observed in animal studies.

Repeated dose toxicity:

No other known chronic effects.

Potential environmental effects

Aquatic toxicity:
Very toxic (acute effect) to fish.
Very toxic (acute effect) to aquatic invertebrates.

Terrestrial toxicity:
The product has not been tested. The statement has been derived from the properties of the individual components.
Acutely harmful to terrestrial organisms.

4. First-aid measures

General advice:
First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If inhaled:
Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

If on skin:
Rinse skin immediately with plenty of water for 15 - 20 minutes.

If in eyes:
Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

If swallowed:
Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

Note to physician

Antidote:	No known specific antidote.
Treatment:	Treat symptomatically.

5. Fire-fighting measures

Flash point:	> 220 °F	(Unspecified)
Autoignition:	approx. 404 °C	

Suitable extinguishing media:
foam, dry extinguishing media, carbon dioxide, water spray

Hazards during fire-fighting:
carbon monoxide, Carbon dioxide, fluorine, Hydrofluoric acid, nitrogen oxides
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

NFPA Hazard codes:
Health : 1 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:
Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Cleanup:
Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and storage

Handling

General advice:
RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be usedup as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

No special measures necessary if stored and handled correctly.

Protection against fire and explosion:
No explosion proofing necessary. Dust can form an explosive mixture with air.

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Storage

General advice:
Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

Storage incompatibility:
General: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

8. Exposure controls and personal protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Advice on system design:
Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:
Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:
Safety glasses with side-shields (frame goggles) (EN 166)

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and chemical properties

Form:	granules	
Odour:	mild, of vegetable oils	
Colour:	tan	
pH value:		No data available.
Bulk density:	240 - 384 kg/m3	
Solubility in water:		insoluble

10. Stability and reactivity

Dust explosion class:
Dust explosion class 1 (Kst-value >0 up to 200 bar m s-1) (St 1)

Conditions to avoid:
Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

Substances to avoid:
strong oxidizing agents

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
Possible thermal decomposition products:
carbon monoxide, Carbon dioxide, Nitrogen oxide, Hydrofluoric acid, fluorine
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.

Corrosion to metals:
Corrosive effects to metal are not anticipated. Not corrosive to: mild steel

11. Toxicological information

Acute toxicity

Oral:
LD50/rat: > 5,000 mg/kg

Dermal:
LD50/rabbit: > 2,000 mg/kg

Skin irritation:
rabbit: Mildly irritating. (Primary skin irritation test)

Eye irritation :
rabbit: Nonirritating.

Sensitization:
Skin sensitization test/guinea pig: Non-sensitizing.

Genetic toxicity:
Information on: hydramethylnon
No mutagenic effect was found in various tests with microorganisms and mammals.

Carcinogenicity:
Information on: hydramethylnon
Indication of possible carcinogenic effect in animal tests.

Reproductive toxicity:
Information on: hydramethylnon
The results of animal studies suggest a fertility impairing effect.

Developmental toxicity/teratogenicity:
Information on: hydramethylnon
In animal studies the substance showed a developmental toxic effect in high doses which were maternally toxic.
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12. Ecological information

Information on: hydramethylnon
Acute and prolonged toxicity to fish:
Rainbow trout/LC50 (96 h): 0.16 mg/l

Information on: hydramethylnon
Acute toxicity to aquatic invertebrates:

Daphnia magna/EC50 (48 h): 1.14 mg/l

Information on: hydramethylnon
Toxicity to aquatic plants:
algae/EC50: 1.4 ug/L

Information on: hydramethylnon
Other terrestrial non-mammals:
bobwhite quail/LC50: 1,828 ppm
Honey bee/LD50: 68 ug/bee
Acutely harmful to terrestrial organisms.

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13. Disposal considerations

Waste disposal of substance:
Pesticide wastes are regulated.
Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law.
If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:
Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information

Reference Bill of Lading

15. Regulatory information

Federal Regulations

Registration status: released / exempt

OSHA hazard category: No data available.

SARA hazard categories (EPCRA 311/312): Acute, Chronic

State regulations

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

CAS Number	Chemical name
67485-29-4	hydramethylnon

16. Other information

Refer to product label for EPA registration number.

Recommended use: crop protection product

Local contact information
Product Stewardship
919 547-2000

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.
END OF DATA SHEET

MATERIAL SAFETY DATA SHEET

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* SECTION 1 * PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME - Terro Outdoor Ant Killer Plus Multipurpose Insect Control
UPC Code – 070923009008
MANUFACTURER – Senoret Chemical Company, Inc
PREPARED BY - Senoret Chemical Company, Inc., 566 Leffingwell Avenue, Kirkwood, MO 63122 (314)-966-2394
DATE RELEASED: July 2001

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* SECTION 2 * COMPOSITION, INFORMATION ON INGREDIENTS

Permethrin* .25% (CAS #52645-53-1)
Other Ingredients: 99.75%
SARA TITLE III – Section 313
This product contains the following toxic chemicals subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know (EPCRA) of 1986 and of 40 CFR 372:

CAS Number	Ingredient Name	Percent by Weight
52645-53-1	Permethrin	Min. 0.225 Max: 0.275%

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* SECTION 3 HAZARD IDENTIFICATION

HEALTH: May be harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.
ENVIRONMENTAL: This product is extremely toxic to fish and aquatic invertebrates.
****

POTENTIAL HEALTH EFFECTS
PRIMARY ROUTE(S) OF ENTRY – Skin contact
Eyes – Non-irritating
Skin – Non-irritating
Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling
Irritation: Slightly irritating
Absorption LD50>5,000 mg/kg
ACUTE ORAL EFFECTS LD50>5,000 mg/kg

* SECTION 11 * TOXICOLOGICAL INFORMATION

EYE EFFECTS Non-irritating
SKIN EFFECTS Non irritating
ACUTE INHALATION EFFECTS Not applicable
CARCINOGENIC: Not known chronic effects expected from normal use of this product.
CHRONIC (CANCER INFORMATION)
No known chronic effects.

Terro Outdoor Ant Killer Plus Multipurpose Insect Control

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* SECTION 4 * FIRST AID MEASURES

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If inhaled: Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION 5 * FIRE FIGHTING MEASURES
FLAMMABLE PROPERTIES
FLASH POINT – 200 Degrees F
EXTINGUISHING MEDIA – Carbon Dioxide, Dry Chemical, Foam or Water.
FIRE FIGHTING INSTRUCTIONS – As with any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

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* SECTION 6 * ACCIDENTAL RELEASE MEASURES

Sweep up or shovel into approved waste disposal container. Dispose of with chemical waste.

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* SECTION 7 * HANDLING AND STORAGE

HANDLING PRECAUTIONS: Avoid contamination of feed and foodstuffs, Keep children and pets off treated area until material is washed into turf and grass is dry.
STORAGE PRECAUTIONS: Store product in original container in a cool, dry locked place out of the reach of children.
WORK/HYGIENIC PRACTICES Wash thoroughly with soap and water after handling.

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* SECTION 8 * EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE /FACE PROTECTION – Safety glasses or goggles to avoid contact with eyes.
SKIN PROTECTION – Chemical-resistant gloves to avoid contact. Wash thoroughly with soap and water after handling and before smoking or eating.
OTHER PRECAUTIONS: Avoid contamination of feed and feedstuffs. Utensils such as teaspoons and measuring cups should not be used for food purposed after use with insecticides. Do not allow children or pets on treated areas until granules have been watered into the soil and the grass or soil is dry.
EFFECTS OF OVEREXPOSURE: May produce skin sensations (feeling of numbing and tingling) in certain individuals.

Terro Outdoor Ant Killer Plus Multipurpose Insect Control

* SECTION 9 * PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Granular solid. COLOR: Brown
ODOR – Xylene like. FLASH POINT: 200 Degrees F
BASIC PHYSICAL PROPERTIES
PHYSICAL STATE – Solid Granule
DENSITY - 26.36 lbs/ft3 (fluffed) 29.04 lb/ft3 (compacted)l
SOLUBILITY (H2O) Soluble

* SECTION 10 * STABILITY AND REACTIVITY

STABILITY – Stable
HAZARDOUS POLYMERIZATION – Will not occur.

* SECTION 12 * ECOLOGICAL INFORMATION

OTHER ENVIRONMENTAL INFORMATION This product is extremely toxic to fish and aquatic invertebrate. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Use with care when applying in areas adjacent to any body of water when disposing of equipment washwater.

* SECTION 13 * DISPOSAL CONSIDERATION

Disposal: **If empty** – Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled** – Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

* SECTION 14 * TRANSPORTATION INFORMATION

PROPER SHIPPING NAME Not DOT regulated.

* SECTION 15 * REGULATORY INFORMATION - NO DATA GIVEN

SECTION 16 * OTHER INFORMATION

HMIS Hazard Rating	Health	1	Slight
	Fire	1	Slight
	Reactivity	0	Negligible
	SPECIAL	-	
NFPA HAZARD RATING	Health	1	Slight
	Fire	1	Slight
	Reactivity	0	Negligible
	Protection	B	

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES
Buyer assumes all responsibility for safety and use, not in accordance with directions.
These data are offered in good faith as typical values and not as a product specification, without warranty, expressed or implied. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

ENFORCER PRODUCTS, INC. P. O. BOX 1060 CARTERSVILLE, GA. 30120	MANUFACTURER'S PHONE NUMBER: (770) 386-0801 24 HOUR EMERGENCY NUMBER: 1-800-255-3924	HAZARD RATINGS: HEALTH_0_ REACTIVITY_0_ FLAMMABILITY_0_ PERSONAL PROTECTION_0_
PRODUCT NAME: **MOUSE GLUE TRAP**		EPA REG. NO.: N/A
PREPARED BY: TRESSIE DEMPSEY		DATE: NOVEMBER 22, 1999

II. INGREDIENTS

PRINCIPAL COMPONENTS	CAS NUMBER	PERCENT	OSHA PEL	ACGIH TLV	OTHER	HAZARD
NONE						

III. PHYSICAL DATA

BOILING POINT: NOT DETERMINED	SPECIFIC GRAVITY: 0.95 TO 1.08	VAPOR PRESSURE (mm Hg.): N/A
PERCENT VOLATILE BY VOLUME: N/A	VAPOR DENSITY: N/A	EVAPORATION RATE (Butyl Acetate = 1): N/A
SOLUBILITY IN WATER: NOT SOLUBLE	APPEARANCE & ODOR: OFF-WHITE TO TAN COLORED TACKY SOLID WITH REINOUS ODOR	

IV. FIRE & EXPLOSION DATA

FLASHPOINT (Method used): > 400°F		AUTOIGNITION TEMPERATURE: N/A	FLAMMABLE LIMITS: NOT DETERMINED
LEL: N/A	UEL: N/A	EXTINGUISHING MEDIA: WATER SPRAY, FOAM, DRY CHEMICAL	
SPECIAL FIRE FIGHTING PROCEDURES:		WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.	
UNUSUAL FIRE & EXPLOSION HAZARDS:		DECOMPOSITION MAY PRODUCE SMOKE, HAZARDOUS CHEMICALS SUCH AS COx, NOx AND OTHER UNKNOWN HAZARDOUS.	

V. REACTIVITY HAZARD DATA

STABILITY: |X| STABLE | | UNSTABLE	CONDITIONS TO AVOID: OVER-HEATING	
INCOMPATABILITY (Materials to avoid):	OXIDIZING MATERIALS MAY CAUSE REACTION.	
HAZARDOUS POLYMERIZATION: | | WILL OCCUR	| X | WILL NOT OCCUR	CONDITIONS TO AVOID: NONE KNOWN
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND SMOKE.		

VI. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION | | INGESTION | | SKIN ABSORPTION | | EYE | | NOT HAZARDOUS | X |

ACUTE EFFECTS OF OVEREXPOSURE:

INGESTION: NONE

SKIN CONTACT: NONE

INHALATION: NONE

EYE CONTACT: NONE

CHRONIC EFFECTS OF OVEREXPOSURE: NONE

CARCINOGENICITY: NTP? N/A IARC? N/A OSHA REGULATED? N/A

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

EMERGENCY FIRST AID PROCEDURES:

INGESTION: FREE THROAT FROM BLOCKAGE.

SKIN CONTACT: WASH WITH SOAP AND WATER.

INHALATION: GET FRESH AIR.

EYE CONTACT: FLUSH WITH WATER.

VII. CONTROL AND PROTECTIVE MEASURES

EYE PROTECTION:	NONE
RESPIRATORY PROTECTION (specify):	NONE
SKIN PROTECTION:	NONE
VENTILATION:	NONE
OTHER PROTECTION:	NONE

VIII. SPECIAL PRECAUTIONS

HANDLING AND STORING PROCEDURES:	NONE
RELEASE OR SPILL PROCEDURES:	SWEEP UP AND PLACE IN A CONTAINER FOR DISPOSAL.
WASTE DISPOSAL METHOD:	DISPOSE OF AS A SOLID WASTE.
OTHER PRECAUTIONS:	KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN AND PETS.

IX. ADDITIONAL INFORMATION

PROPER DOT SHIPPING NAME:	DEVICE, NOS (NOT DOT / IMO REGULATED)
BIODEGRADABILITY:	NOT BIODEGRADABLE
LEAK PROCEDURES:	NOT LIKELY, A RESINOUS SOLID.

THIS INFORMATION COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

********** END OF REPORT **********

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

ENFORCER PRODUCTS, INC. P. O. BOX 1060 CARTERSVILLE, GA. 30120	MANUFACTURER'S PHONE NUMBER: (770) 386-0801 24 HOUR EMERGENCY NUMBER: 1-800-255-3924	HAZARD RATINGS: HEALTH_0_ REACTIVITY_0_ FLAMMABILITY_0_ PERSONAL PROTECTION_0_
PRODUCT NAME: **ENFORCER RAT AND MOUSE GLUE TRAP**		EPA REG. NO.: N/A
PREPARED BY: TRESSIE DEMPSEY		DATE: NOVEMBER 22,1999

II. INGREDIENTS

PRINCIPAL COMPONENTS	CAS NUMBER	PERCENT	OSHA PEL	ACGIH TLV	OTHER	HAZARD
NONE						

III. PHYSICAL DATA

BOILING POINT: NOT DETERMINED	SPECIFIC GRAVITY: 0.95 TO 1.08	VAPOR PRESSURE (mm Hg.): N/A
PERCENT VOLATILE BY VOLUME: N/A	VAPOR DENSITY: N/A	EVAPORATION RATE (Butyl Acetate = 1): N/A
SOLUBILITY IN WATER: NOT SOLUBLE	APPEARANCE & ODOR: OFF-WHITE TO TAN COLORED TACKY SOLID WITH RESINOUS ODOR.	

IV. FIRE & EXPLOSION DATA

FLASHPOINT (Method used): > 400°F (COC)	AUTOIGNITION TEMPERATURE: N/A	FLAMMABLE LIMITS: NOT DETERMINED
LEL: N/A UEL: N/A	EXTINGUISHING MEDIA: WATER SPRAY, FOAM, DRY CHEMICAL	
SPECIAL FIRE FIGHTING PROCEDURES:	WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.	
UNUSUAL FIRE & EXPLOSION HAZARDS:	DECOMPOSITION MAY PRODUCE SMOKE, HAZARDOUS CHEMICALS SUCH AS COx, NOx AND OTHER UNKNOWN HAZARDOUS SUBSTANCES.	

V. REACTIVITY HAZARD DATA

STABILITY: |X| STABLE | | UNSTABLE	CONDITIONS TO AVOID: OVER-HEATING	
INCOMPATABILITY (Materials to avoid):	OXIDIZING MATERIALS MAY CAUSE REACTION.	
HAZARDOUS POLYMERIZATION:	| | WILL OCCUR |X| WILL NOT OCCUR	CONDITIONS TO AVOID: NONE KNOWN
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND SMOKE.		

VI. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION | | INGESTION | | SKIN ABSORPTION | | EYE | | NOT HAZARDOUS | X |

ACUTE EFFECTS OF OVEREXPOSURE:

INGESTION: NONE

SKIN CONTACT: NONE

INHALATION: NONE

EYE CONTACT: NONE

CHRONIC EFFECTS OF OVEREXPOSURE: NONE

CARCINOGENICITY: NTP? N/A IARC? N/A OSHA REGULATED? N/A

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

EMERGENCY FIRST AID PROCEDURES:

INGESTION: FREE THROAT FROM BLOCKAGE.

SKIN CONTACT: WASH WITH SOAP AND WATER.

INHALATION: GET FRESH AIR.

EYE CONTACT: FLUSH WITH WATER.

VII. CONTROL AND PROTECTIVE MEASURES

EYE PROTECTION:	NONE
RESPIRATORY PROTECTION (specify):	NONE
SKIN PROTECTION:	NONE
VENTILATION:	NONE
OTHER PROTECTION:	NONE

VIII. SPECIAL PRECAUTIONS

HANDLING AND STORING PROCEDURES:	NONE
RELEASE OR SPILL PROCEDURES:	SWEEP UP AND PLACE IN A CONTAINER FOR DISPOSAL.
WASTE DISPOSAL METHOD:	DISPOSE OF AS A SOLID WASTE.
OTHER PRECAUTIONS:	KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN AND PETS.

IX. ADDITIONAL INFORMATION

PROPER DOT SHIPPING NAME:	DEVICE, NOS (NOT DOT / IMO REGULATED)
BIODEGRADABILITY:	NOT BIODEGRADABLE
LEAK PROCEDURES:	NOT LIKELY, A RESINOUS SOLID.

THIS INFORMATION COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

********** END OF REPORT **********

July 19, 2004

Material Safety Data Sheet

Product Name: TRIMEC Lawn Weed Killer

MSDS No.: 809-5 **Version No.:** 016 **EPA Registration No.:** 2217-539-33955

1. Basic Information:

Manufacturer: PBI/Gordon Corporation
Address: 1217 West 12th Street
City, State Zip: Kansas City, MO 64101-1407
Information Contact: Environmental, Health, & Safety Dept.
Information Telephone Number: (816)421-4070
Emergency Contact: Chemtrec
Emergency Telephone Number: (800)424-9300

1	Health
1	Flammability
0	Reactivity
B	Pers. Protection

Last Update: 7/15/2004

Chemical State: [X] Liquid [ ] Gas [ ] Solid
Chemical Type: [ ] Pure [X] Mixture

2. Ingredients:

[ ] Trade Secret *(ND = Not Disclosed)*

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SUB Z	SARA 313	OSHA PEL	ACGIH TLV	Other Limits
2008391	Dimethylamine Salt of 2,4-dichlorophenoxyacetic acid (2,4-D)	7.59%	N	N	Y	N	N	NI	NI	NI
2300665	Dimethylamine Salt of 3,6-dichloro-o-anisic acid (Dicamba)	0.84%	N	N	N	N	Y	NI	NI	NI
66423094	Dimethylamine Salt of R(+)2-(2-Methyl-4-chlorophenoxy) propionic acid (MCPP)	1.83%	N	N	Y	N	N	NI	NI	NI

3. Hazardous Identification:

Hazard Catagory:
[X] Acute [X] Chronic [ ] Fire [ ] Pressure [ ] Reactive

Hazardous Identification Information:
Liquid; amine odor.

Irritant.

The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides in its Group 2B (limited evidence for carcinogenicity in humans.) The US EPA has given the chlorophenoxy herbicides 2,4-D, 2,4-DP, MCPP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.) More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen.

4. First Aid Measures:

Route(s) of Entry:
Contact, inhalation, ingestion.

Health Hazards (Acute and Chronic):
EYES: May cause irritation and burns.

SKIN: May cause moderate dermal irritation.

INHALATION: May cause respiratory irritation; burning.

INGESTION: May irritate gastrointestinal tract.

CHRONIC: Repeated and prolonged overexposure may cause chronic irritation of respiratory tract. Overexposure may cause adverse effects to liver, kidneys, skin, muscular and gastrointestinal systems.

First Aid Measures (Continued)

Signs and Symptoms:
Burning sensation; coughing.

Medical Conditions Generally Aggravated by Exposure:
NI

Emergency First Aid Procedure:
If inhaled:
· Move person to fresh air.
· If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
· Call a poison control center or doctor for treatment advice.

If on skin or clothing:
· Take off contaminated clothing.
· Rinse skin immediately with plenty of water for 15 - 20 minutes.
· Call a poison control center or doctor for treatment advice.

If in eyes:
· Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.
· Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
· Call a poison control center or doctor for treatment advice.

If swallowed:
· Call a poison control center or doctor immediately for treatment advice.
· Have person sip a glass of water if able to swallow.
· Do not induce vomiting unless told to do so by the poison control center or doctor.
· Do not give anything by mouth to an unconscious person.

Other Health Warnings:
NI

5. Fire Fighting Measures:

Material Safety Data Sheet

Product Name: TRIMEC Lawn Weed Killer

MSDS No.: 809-5 **Version No.:** 016 **EPA Registration No.:** 2217-539-33955

Fire Fighting Measures (Continued)

Flash Point: 107°F **F.P. Method:** Closed Cup

Lower Explosive Limit: NI

Upper Explosive Limit: NI

Fire Extinguishing Media:
Foam, CO2, Dry chemical, Water. The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H, and, therefore, would not be classified as a combustible liquid.

Special Fire Fighting Procedures:
Wear positive pressure breathing apparatus and full protective clothing.

Unusual Fire and Explosion:
Burning product may produce irritating or poisonous gases. Runoff from fire control area or dilution water may cause pollution. If surface water is contaminated, contact local authorities.

6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:
Do not touch spilled product. See Section 8 for Personal Protective Equipment. Contain spill and collect for reuse or absorb onto inert absorbent such as Dri-Rite, sand or pet litter. Collect into drums; cover and label drums for reuse or proper disposal. Flush area with water if possible.

7. Handling and Storage:

Precautions to be Taken:
STORAGE: Keep from freezing. Store in original container in a locked storage area inaccessible to children and pets. Avoid contamination of food or feedstuffs.

Other Precautions:
Containers over 1 gallon and less than 5 gallons: Persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron.

Containers of 5 gallons or more in capacity must also bear the following statement: A mechanical system (probe and pump) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

8. Exposure Controls/Personal Protection:

Ventilation Requirements:
Good local ventilation is required. Mechanical exhaust may be necessary if product is applied in an enclosed area.

Personal Protective Equipment:
CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. When using this product, wear long-sleeved shirt, long pants, socks, shoes, and rubber gloves.

After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

PROTECTIVE CLOTHING: Wear long-sleeved shirt, long pants, socks, shoes, and rubber gloves.

EYE PROTECTION: Safety glasses, goggles, or face shield are recommended.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C),

Exposure Controls/Personal Protection (Continued)

or a NIOSH approved respirator with any R, P or HE filter.

9. Physical and Chemical Properties:

Boiling Point: 212°F **Melting Point:** NI

Evaporation Rate (Butyl Acetate = 1) : NI

Vapor Pressure (mm Hg.): <17@68°F

Vapor Density (Air = 1): <1

Specific Gravity (H20 = 1): 1.02870

Solubility in Water: Infinite

Appearance and Odor: Liquid; amine odor.

Other Information:
pH: 7.5--8.5
Density: 8.56 pounds/gallon
Freezing point: <35°F

10. Stability and Reactivity:

Stability:
Stable.

Incompatibility (Materials to Avoid):
Acidic materials may ruin product.

Decomposition/By-Products:
In fire conditions, CO, CO2, NOx may be produced.

Hazardous Polymerization:
Will not occur.

11. Toxicological Information:

Dermal LD50: >2,000 mg/kg.

Oral LD50: >8,000 mg/kg (male rats) and >10,000 mg/kd (female rats).

Product not considered a primary irritant.

12. Ecological Information:

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water.

Do not contaminate water when disposing of equipment washwater. When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not apply when weather conditions favor drift from target area.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and MCPP have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D and MCPP pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing and transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

13. Disposal Considerations:

Material Safety Data Sheet

Product Name: TRIMEC Lawn Weed Killer

MSDS No.: 809-5 **Version No.:** 016 **EPA Registration No.:** 2217-539-33955

Disposal Considerations (Continued)

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: For Metal Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

For Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning. If burned stay out of smoke.

14. Transport Information:

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

Freight Class: Herbicides, NOI - NMFC #50320

In our current available sizes, this product does not qualify as a Hazardous Material.

15. Regulatory Information:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: 1318 pounds of the formulation which contains 100 pounds of Dimethylamine 2,4-D

SARA TITLE III:
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None
SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard, Delayed Health Hazard
SECTION 313 TOXIC CHEMICALS: Dimethylamine dicamba CAS# 2300-66-5

RCRA STATUS: When discarded in its purchased form, this product is a listed RCRA hazardous waste and should be managed as a hazardous waste. (40 CFR Part 261.20-24)

16. Other Information:

REASON FOR ISSUE: To change from racemic MCPP to the plus optical isomer.

NOTE: NI means not indicated.

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.

Other Information (Continued)

Material Safety Data Sheet

Calcium hypochlorite, available chlorine >65%

ACC# 03990

Section 1 - Chemical Product and Company Identification

MSDS Name: Calcium hypochlorite, available chlorine >65%
Catalog Numbers: AC199030010, AC199030200, AC300340000, AC300340010, AC300340050, AC300341000, S79945, C100-250, C100-500
Synonyms: Calcium oxychloride; losantin; Hypochlorous acid; Calcium salt; Lime chloride
Company Identification:

Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410

For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7778-54-3	Calcium hypochlorite	100	231-908-7

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white crystalline powder.
Danger! Strong oxidizer. Contact with other material may cause a fire. Corrosive. Causes eye and skin burns. Harmful if swallowed. Contact with acids liberates toxic gas. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns. Air sensitive.
Target Organs: Lungs, respiratory system, eyes, skin, mucous membranes.

Potential Health Effects

Eye: Causes eye burns. May result in corneal injury. May cause blindness. May cause blepharitis (inflammation of the margins of the eyelids).
Skin: Causes severe burns with delayed tissue destruction.
Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. May cause perforation of the digestive tract. Causes digestive tract burns with immediate pain, swelling of the throat, convulsions, and possible coma. Ingestion of Calcium hypochlorite solutions may cause death. As little as 1 ounce may be lethal if the available chlorine concentration exceeds 15%.
Inhalation: Causes chemical burns to the respiratory tract. Aspiration may lead to pulmonary edema. May cause systemic effects. Causes corrosive action on the mucous membranes.
Chronic: Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis. Effects may be delayed.

Section 4 - First Aid Measures

Eyes: Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).
Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.
Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contaminating or mixing with foreign materials such as combustibles, grease, and fuels can cause fire. Containers may explode when heated.
Extinguishing Media: Use water only! Do NOT use carbon dioxide or dry chemical. Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out.
Flash Point: Not available.
Autoignition Temperature: Not available.
Explosion Limits, Lower: Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 1; Special Hazard: OX

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation. Do not get water inside containers. Do not use combustible materials such as paper towels to clean up spill.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Do not get in eyes,

on skin, or on clothing. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid contact with clothing and other combustible materials. Do not ingest or inhale. Discard contaminated shoes. Use only a clean, dry scoop made of metal or plastic each time product is taken from container. Never use scoops containing remnants of other products as it may cause a violent reaction leading to fire or an explosion.
Storage: Keep away from sources of ignition. Do not store near combustible materials. Do not store in direct sunlight. Keep container closed when not in use. Store in a tightly closed container. Keep away from acids.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Calcium hypochlorite	none listed	none listed	none listed

OSHA Vacated PELs: Calcium hypochlorite: No OSHA Vacated PELs are listed for this chemical.
Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder
Appearance: white
Odor: strong odor - chlorine-like
pH: 11.4 (1% aq. sol.)
Vapor Pressure: Not applicable.
Vapor Density: Not applicable.
Evaporation Rate: Not applicable.
Viscosity: Not available.
Boiling Point: Decomposes
Freezing/Melting Point:100 deg C
Decomposition Temperature:180 deg C
Solubility: Slightly soluble.
Specific Gravity/Density:2.350
Molecular Formula: CaCl2O2
Molecular Weight:142.9848

Section 10 - Stability and Reactivity

Chemical Stability: All hypochlorite solutions are unstable and slowly decompose on contact with air. Calcium hypochlorite is corrosive to most metals and will evolve toxic chlorine and chlorine monoxide gas when heated above 350°F. Sudden heating above 212°F may cause an explosion. Pure, dry calcium hypochlorite is not sensitive to friction or impact. However, in the presence of small amounts of water, it can decompose to form dangerously unstable dichlorine monoxide, which is sensitive to friction, shock or static spark.
Conditions to Avoid: Ignition sources, dust generation, excess heat, moisture, high humidity.
Incompatibilities with Other Materials: Reducing agents, ammonia, iron oxide, phenols, sulfur, aliphatic amines, acetylene, cyanides (e.g. potassium cyanide, sodium cyanide), sulfides (inorganic, e.g. ferric sulfide, lead sulfide, sodium sulfide), carbontetrachloride, aromatic amines, carbon, ammonium chloride, charcoal, glycerol, air, ethanol, menthol, rust, hydroxy compounds (e.g. ethanol, ethylene glycol, gycerol, sugar), metal oxides, turpentine, diethylene glycol monomethyl ether, acetic acid + potassium, N,N-dichloromethylamine + heat, 1-propanethiol, isobutanethiol, sodium hydrogen sulfate + starch + sodium carbonate, combustible materials (e.g. anthracene, grease, oil, mercaptans, methyl carbitol, nitromethane, organic matter, and propylmercaptan).
Hazardous Decomposition Products: Hydrogen chloride, oxygen, chlorine, calcium hydroxide, calcium carbonate, dichlorine monoxide, Calcium chlorate.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 7778-54-3: NH3485000
LD50/LC50:
CAS# 7778-54-3:
Oral, rat: LD50 = 850 mg/kg;
.

Carcinogenicity:
CAS# 7778-54-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found
Teratogenicity: No information found
Reproductive Effects: No information found
Mutagenicity: Mutation in bacteria.
Neurotoxicity: No information found
Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Striped bass: LC50 = 0.5 mg/L; 24 Hr; Static bioassay (70% hypochlorite)

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to

ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	CALCIUM HYPOCHLORITE, DRY	CALCIUM HYPOCHLORITE, DRY
Hazard Class:	5.1	5.1
UN Number:	UN1748	UN1748
Packing Group:	II	II

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 7778-54-3 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
CAS# 7778-54-3: 10 lb final RQ; 4.54 kg final RQ
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 7778-54-3: immediate, fire.
Section 313 No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
CAS# 7778-54-3 is listed as a Hazardous Substance under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.
STATE
CAS# 7778-54-3 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European / International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

O C N

Risk Phrases:

R 22 Harmful if swallowed.
R 31 Contact with acids liberates toxic gas.
R 34 Causes burns.
R 8 Contact with combustible material may cause fire.
R 50 Very toxic to aquatic organisms.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face pr otection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

WGK (Water Danger/Protection)

CAS# 7778-54-3: 2

Canada - DSL/NDSL

CAS# 7778-54-3 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of C, E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

Section 16 - Additional Information

MSDS Creation Date: 7/19/1999
Revision #7 Date: 5/16/2007

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

BRENNTAG

BRENNTAG MID-SOUTH, INC.
MATERIAL SAFETY DATA SHEET
Effective Date: July 19, 2004

SODIUM HYPOCHLORITE SOLUTION

SECTION I - MATERIAL IDENTIFICATION

MANUFACTURER'S NAME & ADDRESS:
BRENNTAG MID-SOUTH, Inc.
1405 Highway 136 West / Geneva Road
Henderson, Kentucky 42420

EMERGENCY TELEPHONE NUMBER:
270-830-1222

CHEMICAL NAME AND SYNONYMS: Sodium Hypochlorite Solution (10-14.2%); Hypochlorite Solution; Bleach Solution, Hypochlorous acid, sodium salt, &/or AB Bleach; sodium hypochlorite/DIWater

CHEMICAL FAMILY: Hypochlorite

FORMULA: NaOCl

SECTION II - HAZARDOUS INGREDIENTS

CAS NUMBER	CHEMICAL NAME(S)	WT %	THRESHOLD LIMIT VALUES (UNITS)			
			OSHA:		ACGIH:	
			PEL	STEL	TLV	STEL
7681-52-9	Sodium hypochlorite**	10 – 14.2	— NONE ESTABLISHED —			
1310-73-2	Sodium hydroxide	0.3 – 1.0	2 mg/m^3 Ceiling	----	2 mg/m^3 Ceiling	—
7647-14-5	Sodium Chloride	9 – 12.5	— NONE ESTABLISHED —			
497-19-8	Sodium carbonate	≤ 0.5	— NONE ESTABLISHED —			
7732-18-5	Water	Balance	— NONE ESTABLISHED —			

This product does not contain any chemical (s) subject to reporting requirements of Section 313, Title III of SARA, Part 372.
**** %(w/w) as Cl_2 9.5 to 13.55% TLV/TWA (ACGIH) 0.5ppm Cl_2; TLV/STEL (ACGIH) 1ppm Cl_2 & PEL (OSHA) 1ppm Cl_2**

SECTION III - PHYSICAL DATA

BOILING POINT °F (°C): 110 °C for 15% NaOCl

SPECIFIC GRAVITY (H_2O=1): 1.08 - 1.27

VAPOR DENSITY (AIR =1): n.a.

EVAPORATION RATE: n.a.

VAPOR PRESSURE (mmHg): Vapor pressure of water plus decomposition products.

PERCENT VOLATILE BY VOLUME (%): Water vapor plus decomposition products.

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Light, yellow-green liquid with pungent-like chlorine odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): Non - flammable

FLAMMABLE LIMITS (% BY VOLUME): n.a.

EXTINGUISHING MEDIA: Use water spray, fog, foam, dry chemicals, or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear protective equipment including self contained breathing apparatus. Avoid fumes. Dilute spill with copius amounts of water, ventilate. Be prepared to use respirator.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Possible vigorous reaction upon contamination with organics or oxidizing agents. Bleach decomposes when heated, decomposition products may cause containers to rupture or explode. Many reactions can cause fire and explosion. This material will react with some metals which may cause liberation of oxygen. Toxic fumes can be liberated by contact with acid or heat.

Vigorous reactions can occur with oxidizable materials and organics. Keep material cool using a water spray from a safe distance. Keep all unnecessary people away. Stay up wind and stay out of low-lying areas.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

PRECAUTIONARY STATEMENTS (Hazards to humans and domestic animals): Danger! Corrosive! May cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Exposure to skin may cause sensitization or other allergic responses.

INHALATION: Corrosive! Product may cause severe irritation of the nose, throat and respiratory tract. Repeated and/or prolonged exposures may cause productive cough, runny nose, bronchopneumonia, pulmonary edema (fluid build-up in lungs), and reduction of pulmonary function. Repeated inhalation exposure may cause impairment of lung function and permanent lung damage.

EYE CONTACT: Extremely corrosive! This product causes corneal scarring and clouding. Glaucoma, cataracts and permanent blindness may occur.

SKIN CONTACT: Corrosive! Concentrated solutions may cause pain and deep and severe burns to the skin. Prolonged and repeated exposure to diluted solutions often causes irritation, redness, pain and drying and cracking of the skin. Human evidence has indicated that an ingredient in this product can cause skin sensitization.

INGESTION: Corrosive! Will immediately cause severe corrosion of and damage to the gastrointestinal tract. Exposure characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration.

PRIMARY ROUTES OF ENTRY: Inhalation and contact.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: NTP/No IARC/No OSHA/No ACGIH/A4*
* as Chlorine

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh air. Give artificial respiration if not breathing. Get medical attention.

EYE CONTACT: Wash eyes with plenty of water for at least 15 minutes while holding eyelids open. Consult an eye specialist immediately.

SKIN CONTACT: Flush skin with plenty of water while removing contaminated clothing. Get medical attention for persistent irritation. Clean clothing before reuse.

INGESTION: If swallowed drink large quantities of water. Do NOT induce vomiting. Call a poison control center or doctor immediately for treatment advice. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water.

SECTION VI - TOXICOLOGICAL INFORMATION

TOXICITY DATA: Oral LD50: 8,910 mg/kg. (Rats)
Dermal LD 50: > 10,000mg/kg. (Rabbits)
Inhalation 0.25-hour LC 50: >10.5 mg/l (Rats)
Acute oral toxicity: IV; LD50, 192 mg/kg
Acute dermal toxicity: III; LD50, > 3,000 mg/kg
Primary eye irritation: I; Corrosive
Primary skin irritation: I; Corrosive

SUMMARY: The concentrated solution is corrosive to skin, and a 5% solution is a severe eye irritant. Solutions containing more than 5% available chlorine are classified by DOT corrosive. Toxicity described in animals from single exposures by ingestion includes muscular weakness, and hyperactivity. Repeated ingestion exposure in animals caused an increase in the relative weight of adrenal glands in one study, but no pathological change were observed in two other studies. Long-term administration of compound

in drinking water of rats caused depression of the immune system. No adverse changes were observed in an eight-week dermal study of a 1% solution in guinea pigs. Tests in animals demonstrate no carcinogenic activity by either the oral or dermal routes. Tests in bacterial and mammalian cell cultures demonstrate mutagenic activity.

SECTION VII – ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluents containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact you State Water Board or Regional Office of the EPA.

Acute oral-bobwhite quail: LD50, > 2510 mg/kg
Acute dietary-mallard duck: LC50, > 5220 ppm
Acute dietary-bobwhite quail: LC50, > 5620 ppm
Acute fish-rainbow trout: LC50, 0.18-0.22 mg/l
Acute fish-bluegill sunfish: LC50, 0.44-0.79 mg/l
Acute invertebrate-daphnia: LC50, 0.033-0.048 mg/l
Fathead minnows: 96-hour LC50, 5.9 mg/LO
Rainbow Trout: 96-hour LC50, 0.2mg/liter
Bluegill sunfish: 96-hour LC50, 0.58mg/liter

SECTION VIII - REACTIVITY DATA

STABILITY: Unstable (Contingent upon temperature, contamination (metals), and pH.)

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Heat, light exposure, decrease in pH, and contamination with heavy metals, such as nickel, cobalt, copper and iron.

INCOMPATIBILITY (MATERIALS TO AVOID): Heavy metals, reducing agents, organics, ether, ammonia, ammonium acetate, ammonium carbonate, ammonium nitrate, ammonium oxalate, ammonium phosphate, urea and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Hypochlorous acid, chlorine, hydrochloric acid, sodium chloride, sodium chlorate, and oxygen. Decomposition of sodium hypochlorite takes place within a few seconds with following salts: ammonium acetate, ammonium carbonate, ammonium nitrate, ammonium oxalate, and ammonium phosphate. Hypochlorites react with urea to form nitrogen trichloride, which explodes spontaneously in air.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Personnel with proper protective equipment should contain spill. Flush area with large amounts of water. Use reducing agents such as bisulfites or ferrous salt solutions to neutralize.

WASTE DISPOSAL METHOD: Disposal is to be in accordance with all Federal, State, and Local regulations.

SECTION X - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: When fumes present, use NIOSH approved respirator with acid type canister.

VENTILATION: Local exhaust preferable as required to control fumes.

PROTECTIVE GLOVES: Rubber or plastic.

EYE PROTECTION: Chemical goggles.

OTHER PROTECTIVE EQUIPMENT: Clothing to protect skin. Safety shower and eye wash fountain.

SECTION XI - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store this product in a cool dry area; away form direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not reuse container. Do not contaminate food or feed by storage, disposal or cleaning of equipment. Most metals and metal alloys are NOT suitable for use in contact with sodium hypochlorite solutions including aluminum, brass, bronze, copper, cast iron, galvanized steel, mild steel, nickel, or stainless steel, since these metals act as a catalyst which will cause rapid decomposition of the sodium hypochlorite solution through the release of oxygen.

Sodium hypochlorite solutions are basically unstable, and on exposure to heat and/or light, will slowly decompose, becoming less concentrated with time. Sodium hypochlorite solutions should never be allowed to contact or mix with acids or other low pH compounds, due to the release of chlorine gas. Do not allow sodium hypochlorite to mix with ammonia, since chloroamines may be formed.

Decomposition of sodium hypochlorite takes place within a few seconds with following salts: ammonium acetate, ammonium carbonate, ammonium nitrate, ammonium oxalate, and ammonium phosphate.

Hypochlorites react with urea to form nitrogen trichloride, which explodes spontaneously in air.

Solutions of sodium hypochlorite are corrosive to the skin, eyes, and mucous membranes. Proper safety equipment should be used when working with or in close proximity of sodium hypochlorite.

OTHER PRECAUTIONS: Use with adequate ventilation. Wash thoroughly after handling. Do not get in eyes, on skin or clothing. Do NOT breathe fumes or mist. Mixing this product with chemicals (e.g. common household cleaners, ammonia, acids, detergents, etc.) or organic matter will release chlorine gas, which is irritating to eyes, lungs, and mucous membranes.

STRONG OXIDIZING AGENT: Mix only with water according to label directions. Mixing this product with chemicals (e.g. common household cleaners, ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas, which is irritating to eyes, lungs and mucous membranes.

HAZARD RATING: Health 3 Flammability 0 Reactivity 2

SECTION XII - D.O.T. SHIPPING INFORMATION

PROPER SHIPPING NAME: Hypochlorite Solutions

HAZARD CLASS: 8 (Corrosive) **UN/NA:** UN 1791 **PACKING GROUP:** III

D.O.T. LABEL REQUIRED: Corrosive **REPORTABLE QUANTITY OF PRODUCT:** 800 to 2,000 lbs.

SECTION XIII – REGULATORY INFORMATION

TSCA (Toxic Substance Control Act}: All components of this product are listed on the TSCA inventory.

CERCLA AND SARA REGULATIONS, 40 CFR §300-373:

Super fund Reportable Discharge = 100 pounds (100% NaOCl) CERCLA Hazardous Material: yes

SARA Extremely Hazardous substance: No SARA Toxic Chemical: No

Title III Hazard Classifications: Acute: yes Chronic: yes Fire: no Reactivity: yes Pressure: No

EPA " CLEAN AIR ACT": This product does not contain nor is it manufactured with ozone depleting substances.

OTHER REGULATIONS/LEGISLATION THAT APPLY TO THIS PRODUCT: Massachusetts, Pennsylvania, and New Jersey Right-to Know Laws.

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PREPARED BY

APPROVED BY

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Pittclor® Dry Chlorinating Granules
Product ID: 0310D
SYNONYMS: Calcium Hypochlorite Granular; Cal Hypo Granules; $Ca(OCl)_2$; MSDS No. 0310
ISSUE DATE: 03/09/2007
EDITION NO.: 11

PPG Industries, Inc.
One PPG Place, Pittsburgh, PA 15272, USA
24-hour Emergency Telephone Number: 1-412-434-4515
For Product Information (8am-5pm Eastern time):
1-800-245-2974 (Cal Hypo)

PREPARER: Product Safety, Chemicals

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material/CAS Number	Percent
Calcium Hypochlorite 7778-54-3	>65
Calcium Chlorate 10137-74-3	<2
Calcium Carbonate 471-34-1	<2
Calcium Hydroxide 1305-62-0	<2

Note: Minimum 65% Available Chlorine. 35% inert ingredients (includes 5.5-8.5% water).

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER! Corrosive - Causes severe and irreversible burns to eye and skin. Harmful if inhaled. May cause irritation and inflammation to the respiratory tract. Harmful or fatal if swallowed. Strong Oxidizing Agent! Mix only with water. Never add water to product. Always add the product to large quantities of water. Do not mix with any other chemicals. Contamination with moisture, acids, organic materials and other easily combustible materials such as petroleum, paint products, wood or paper

may cause fire or explosion and the liberation of hazardous gases. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause violent reaction leading to fire or explosion. Very toxic to aquatic organisms.

Precautions: Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Irritating to nose and throat. Do not swallow. Do not eat, drink or smoke in work area. Wash hands after handling. Remove and wash contaminated clothing before reuse. Keep out of reach of children.

4. FIRST AID MEASURES

INHALATION: Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

EYE/SKIN CONTACT: EYE: Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. Contact a poison control center, emergency room or physician right away as further treatment will be necessary. SKIN: Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

INGESTION: Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Do Not induce vomiting. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not Applicable.

EXTINGUISHING MEDIA: Drench with large quantities of water only. Do not use dry chemicals or foams. Product supplies own oxygen, therefore attempts to smother fire with a wet blanket, carbon dioxide, dry chemical extinguisher or other means are not effective.

SPECIAL FIREFIGHTING PROCEDURES: Product decomposes at approximately 338-356°F (170-180°C) releasing oxygen gas. Container may rupture. Fire-fighters must wear NIOSH approved, pressure demand, self-contained breathing apparatus with full face piece for possible exposure to hazardous gases. Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Use extreme caution in handling spilled material. Do not mix with any other chemicals. Contamination with moisture, acids, organics or other easily combustible materials such as petroleum, paint products, wood or paper may cause fire or violent decomposition. If fire or decomposition occurs in area of spill, immediately douse with plenty of water. Otherwise, sweep up all visible material using a clean (new, if possible), dry shovel and broom and dissolve material in water. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:
Store in a cool, dry, well-ventilated place. Keep in original container. Keep container closed when not in use. Keep away from heat, sparks, flames, direct sunlight, and other sources of heat, including lighted tobacco products. Use only a clean (new, if possible), dry scoop made of metal or plastic each time product is taken from the container. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause violent reaction leading to fire or explosion. Add this product only to water. Never add water to product. Always add the product to large quantities of water. May cause fire or explosion if mixed with other chemicals. Fire may result if contaminated with acids, organic materials and other easily combustible materials such as oil, kerosene, gasoline, paint products wood and paper. Do not reuse container. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection. Do not contaminate water, food, or feed by storage or disposal of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:
8-hour Time Weighted Average (TWA); 15-minute Short-Term Exposure Limit (STEL)

OSHA: The OSHA exposure limit(s) for Calcium hydroxide: 5 mg/m^3 TWA. Calcium carbonate: 15 mg/m^3 (total dust) 5 mg/m^3 (respirable dust)

ACGIH: The ACGIH exposure limit(s) for Calcium hydroxide: 5 mg/m^3 TWA. Calcium carbonate: 10 mg/m^3 (total dust) 3 mg/m^3 (respirable nuisance particulate) TWA.

ONTARIO: The Ontario Exposure limit(s) for Calcium hydroxide: 5 mg/m^{3}TWAEV Calcium carbonate: 10 mg/m^{3}TWAEV

PPG Internal Permissible Exposure Limit (IPEL): Calcium hypochlorite: 1 mg/m^3 TWA. 2 mg/m^3 STEL.

RESPIRATORY PROTECTION: Where the potential for exposure to dust exists, use the appropriate regulatory compliant full facepiece air-purifying respirator with acid gas cartridge and particulate prefilter. Carefully read and follow the respirator manufacturer's instructions and information.

VENTILATION: Use local exhaust or general room/dilution ventilation sufficient to maintain employee exposure below permissible exposure limits.

EYE AND FACE PROTECTION: Splashproof goggles and faceshield.

PROTECTIVE GLOVES: Butyl rubber. Neoprene. Nitrile.

OTHER PROTECTIVE EQUIPMENT: Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Decomposes at approximately 338-356°F (170-180°C)
Vapor Density (Air=1): NA

Specific Gravity (Water=1): NA
pH: Alkaline
FREEZING/MELTING POINT: NA
SOLUBILITY (wt.% in water): 217 g/l @ 27°C
Bulk Density (kg/M3): 65-67 lbs./cu.ft.
VOLUME % VOLATILE: NA
VAPOR PRESSURE: NA
Evaporation Rate: NA
HEAT OF SOLUTION: Slightly exothermic
Physical State: Granules
Odor: slight chlorine
COLOR: White

10. STABILITY AND REACTIVITY

Stability: Unstable above 338°F (170°C).

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (CONDITIONS/MATERIALS TO AVOID):
Contamination. Excessive heat above 338°F (170°C). Moisture. Acids. Reducing agents. Organics. Combustible materials. Petroleum products. Paint products. Wood and paper.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:
Acid or ammonia contamination will release toxic gases. Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas.

11. TOXICOLOGICAL INFORMATION

ACUTE INHALATION LC50: No mortality at 3.5 mg/l (rat) (1 hour). Slight to very low toxicity.
ACUTE DERMAL LD50: >1000 mg/kg. (rabbit) Slight to very low toxicity.
SKIN IRRITATION: Corrosive.
EYE IRRITATION: Corrosive.
ACUTE ORAL LD50: 850 mg/kg. (rat) Moderate toxicity.

CARCINOGENICITY STATUS: This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH, or OSHA.

MEDICAL CONDITIONS AGGRAVATED: None known.

EFFECTS OF OVEREXPOSURE:

ACUTE:

Inhalation: Inhalation of calcium hypochlorite dust and deposition of particles in the respiratory tract can lead to irritation of the tissue and cause a variety of effects. These effects are dependent on concentration and include: upper respiratory tract irritation, nasal congestion, coughing, sore throat, laryngitis and shortness of breath. In operations where there are high concentrations of respirable

particulates, pulmonary edema (fluid in the lung) may be produced. If not treated immediately, pulmonary edema can be life threatening. Since this product is in granular or tablet form, particles of respirable size are not generally encountered.

Eye/Skin: Calcium hypochlorite is corrosive to the eyes. Contact of calcium hypochlorite dust with the eyes, even a minute amount for a short duration, can cause severe irritation and even blindness. Contact with the skin may cause severe irritation, burns, or tissue destruction. In studies utilizing rabbits, the skin irritation score was 8/8 and the eye irritation score was 98.5/110.

Ingestion: Calcium hypochlorite, if swallowed, causes severe burns to the digestive tract and can be fatal.

CHRONIC:

Genotoxicity: Calcium hypochlorite produced positive responses in in-vitro assays using bacterial systems (the Ames test) and chromosomal aberrations in Chinese hamster fibroblasts. In a whole animal experiment (mouse micronucleus test), exposures ranging from 20 to 160 mg/kg produced no compound related chromosomal abnormalities.

Carcinogenisis: Although no study has been conducted with calcium hypochlorite, the carcinogenic potential of sodium hypochlorite was studied in F344 rats. After 104 weeks of drinking water containing up to 2000 ppm sodium hypochlorite, there was no evidence that this chemical produced any carcinogenic response. In addition, this exposure did not result in any adverse effects

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:
0.088 mg/l (Bluegill) 96-hour LC50. Extreme toxicity.

ENVIRONMENTAL FATE:
No data at this time.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:
Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being used. If this is not possible, dissolve material in water and carefully neutralize dissolved material by adding hydrogen peroxide (one pint of 35% hydrogen peroxide solution per pound of calcium hypochlorite to be neutralized) then dilute the neutralized material with plenty of water and flush to sewer. Note: Only properly neutralized material should be flushed to sewer. Unneutralized material can cause environmental damage to receiving water or can interfere with treatment plant operation. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. It is your duty to dispose of the chemical materials and/or their containers in accordance with the U.S. Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, as well as any other relevant Federal, State, or local laws/regulations regarding disposal.

14. TRANSPORT INFORMATION

Proper Shipping Name: Calcium Hypochlorite, Hydrated

Hazard Class: 5.1 (Oxidizer)
UN Number: UN2880
Packing Group: II
USA-RQ, Hazardous Substance and Quantity: 10 lbs./4.5 kg. (calcium hypochlorite)
Marine Pollutant: None
Additional Information: USA Shipments Only - Hazardous Substances are regulated in the USA when shipped above their Reportable Quantity (RQ).

15. REGULATORY INFORMATION

USA TSCA: All components of this product are listed on the TSCA Inventory.
EU EINECS: All components in this product are listed on EINECS.
CANADA DOMESTIC SUBSTANCES LIST (DSL): This product and/or all of its components are listed on the Canadian DSL.
AUSTRALIA AICS: All components of this product are listed on AICS.
KOREA ECL: All components in this product are listed on the Korean Existing Chemicals Inventory (KECI).
JAPAN MITI (ENCS): All components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) chemical inventory.
PHILIPPINES PICCS: All of the components in this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).
CHINA IECSC: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or otherwise exempt.

SARA TITLE III:
SARA (311, 312) Hazard Class:
Acute Health Hazard. Reactive Hazard. Fire Hazard.
SARA (313) Chemicals:
Not listed.
SARA Extremely Hazardous Substance:
Not listed.

CERCLA Hazardous Substance:
The following materials are listed as CERCLA Hazardous Substances in Table 302.4 of 40 CFR Part 302: Calcium Hypochlorite (7778-54-3) RQ = 10 lbs./4.54 kg.

CANADA REGULATIONS (WHMIS): Class C - Oxidizing material.

FIFRA:
This product is registered with EPA as a pesticide.

16. OTHER INFORMATION

Other Information:
NSF Drinking Water Treatment Chemicals Listing - PPG calcium hypochlorite is certified for maximum use at 15 mg/L under NSF/ANSI Standard 60.

The following has been revised since the last issue of this MSDS:

Date. Edition. Section 1 has been updated. Section 8 has been updated. Section 12 has been updated. Section 15 has been updated. Section 16 has been updated.

Previous revision date: 01/02/2004
Previous edition number: 010

NA = Not Available

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	1900'S - STABILIZED GRANULAR CHLORINATOR (DICHLOR)
PRODUCT NUMBER(S)	
PRODUCT DESCRIPTION:	(DI-CHLOR)
DATE PREPARED:	3/31/05
MANUFACTURER NAME:	SUNCOAST CHEMICALS COMPANY
MANUFACTURER ADDRESS:	14480 62ND STREET NORTH CLEARWATER, FL 33760
MANUFACTURER PHONE:	(727) 531-8913
SUPPLIER NAME AND ADDRESS:	FLORIDA POOL PRODUCTS, INC. 14480 62ND STREET NORTH CLEARWATER, FL 33760
SUPPLIER PHONE:	(727) 531-8913
EMERGENCY PHONE - 24 HOURS:	CALL CHEM-TEL, INC. (800) 255-3924

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	WT. %	OSHA PEL	ACGIH TLV	CAS REGISTRY#
SODIUM DICHLOROISO-CYANURATE DIHYDRATE	99-100	N/E	N/E	51580-86-0
SODIUM CHLORIDE	0-1	N/E	N/E	7647-14-4

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

POTENTIAL HEALTH EFFECTS

INHALATION: IRRITATING TO NOSE, MOUTH, THROAT AND LUNGS. MAY CAUSE BURNS TO RESPIRATORY TRACT.

EYE CONTACT: SEVERE IRRITATION AND/OR BURNS

SKIN CONTACT: SEVERE IRRITATION AND /OR BURN CHARACTERIZED BY REDNESS, SWELLING AND SCAB FORMATION.

INGESTION: IRRITATION AND BURNS CAN OCCUR TO THE GASTROINTESTINAL TRACT, STOMACH AND INTESTINES.

CHRONIC: REPEATED SKIN EXPOSURE MAY CAUSE TISSUE DESTRUCTION. INHALATION EXPOSURE MAY CAUSE IMPAIRMENT OF LUNG FUNCTION AND PERMANENT LUNG DAMAGE.

HMIS HAZARD CODE:	HEALTH: 3	FLAMMABILITY: 0	REACTIVITY: 1
NFPA CODE:	HEALTH: 2	FLAMMABILITY: 0	REACTIVITY: 1

SECTION 4 FIRST AID MEASURES

INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN, KEEP THE PERSON WARM AND AT REST. CALL A PHYSICIAN.

EYE CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CALL A PHYSICIAN AT ONCE.

SKIN CONTACT: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CALL PHYSICIAN. IF CLOTHING COMES IN CONTACT WITH THE PRODUCT, REMOVE IMMEDIATELY AND LAUNDER BEFORE RE-USE.

INGESTION: DO NOT INDUCE VOMITING. IMMEDIATELY DRINK LARGE QUANTITIES OF WATER. CALL A PHYSICIAN AT ONCE. DO NOT GIVE ANYTHING BY MOUTH IF THE PERSON IS UNCONSCIOUS OR IF HAVING CONVULSIONS.

SECTION 5 FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: N/A

GENERAL HAZARD: USE WATER TO COOL CONTAINERS EXPOSED TO FIRE. ON SMALL FIRES, USE WATER SPRAY OR FOG. ON LARGE FIRES, USE HEAVY DELUGE OR FOG STREAMS. FLOODING AMOUNTS OF WATER MAY BE REQUIRED BEFORE EXTINGUISHMENT CAN BE ACCOMPLISHED. **DO NOT** USE DRY CHEMICAL EXTINGUISHERS CONTAINING AMMONIA COMPOUNDS.

FIRE FIGHTING INSTRUCTIONS: USE SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE AND PROTECTIVE CLOTHING.

FIRE FIGHTING EQUIPMENT: WATER SPRAY OR FOG

HAZARDOUS COMBUSTION PRODUCTS: NONE

SECTION 6 ACCIDENTAL RELEASE MEASURES

DO NOT CONTAMINATE SPILL MATERIAL WITH ANY ORGANIC MATERIALS, AMMONIA, AMMONIUM SALTS OR UREA. CLEAN UP ALL SPILL MATERIAL WITH CLEAN. DRY DEDICATED EQUIPMENT AND PLACE IN A CLEAN, DRY CONTAINER. IF SPILLED MATERIAL IS DRY, DO NOT PUT WATER DIRECTLY ON IT.

SECTION 7 HANDLING AND STORAGE

STORE IN A COOL, DRY, WELL-VENTILATED AREA. DO NOT STORE AT TEMPERATURES ABOVE 60 DEG. C/140 DEG. F. PRODUCT HAS AN INDEFINITE SHELFLIFE IF STORED AT ROOM TEMPERATURE.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS
VENTILATION: LOCAL EXHAUST

PERSONAL PROTECTION
RESPIRATOR: MSHA-NIOSH APPROVED FULL FACEPIECE RESPIRATOR EQUIPPED WITH CHLORINE CARTRIDGES AND A DUST/MIST TYPE PREFILTER.

PROTECTIVE CLOTHING: NEOPRENE GLOVES, CHEMICAL SAFETY GLASSES OR GOGGLES, APRON AND IMPERMEABLE CLOTHING SAFETY SHOWER AND EYEWASH STATION IN WORK AREA.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	N/A	VAPOR DENSITY:	N/A
SPECIFIC GRAVITY:	0.96 @ 20 DEG. C	PHYSICAL STATE:	SOLID
SOLUBILITY IN WATER:	29% @ 130 DEG. C	EVAPORATION RATE:	N/A
pH:	6.0-6.5	BOILING POINT:	N/A
FREEZING POINT:	N/A	VISCOSITY:	N/A
ODOR:	MILD CHLORINE	APPEARANCE:	WHITE GRANULAR

SECTION 10 STABILITY AND REACTIVITY

GENERAL: STABLE UNDER NORMAL CONDITIONS.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: OTHER OXIDIZERS, ORGANIC MATERIALS, REDUCING AGENTS, ACIDS, BASES, NITROGEN CONTAINING COMPOUNDS, DRY FIRE EXTINGUISHERS CONTAINING MONO-AMMONIUM PHOSPHATES.

HAZARDOUS DECOMPOSITION: NITROGEN TRICHLORIDE, CHLORINE, CARBON MONOXIDE

SECTION 11 TOXICOLOGICAL INFORMATION

INHALATION:	LC50 - > 50 MG/L (1 HOUR, RATS - NOMINAL CONCENTRATION)
ORAL:	LD50 - 738 MG/KG (RAT)
DERMAL:	LD50 - > 2G/KG (RABBIT)
IRRITATION:	CAUSES BURNS TO EYES AND SKIN

NOT A KNOWN CARCINOGEN

SECTION 12 ECOLOGICAL INFORMATION

NONE

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSE OFACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14 TRANSPORT INFORMATION

DOT (Department Of Transportation)

PROPER SHIPPING NAME:	NOT REGULATED
UN/NA NUMBER:	N/A
HAZARD CLASS:	N/A
PACKING GROUP:	N/A

EMERGENCY PHONE - 24 HOURS: CALL CHEM-TEL, INC. (800) 255-3924

SECTION 15 REGULATORY INFORMATION

NONE

SECTION 16 OTHER INFORMATION

NONE

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination asto the suitability of the information for their particular purpose(s).

Material Safety Data Sheet

Provided by:

DPC Industries, Inc. **DX Distributors, Inc.**
DPC Enterprises **DX Systems Company**
DXI Industries, Inc. **DX Terminals**

PO Box 24600
Houston, Tx 77229-4600
281-457-4888
888-647-7717
www.dxgroup.com

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name TRICHLOR TABLETS

Synonyms 1,3,5- TRIAZINE, TRICHLOR, CRYSTAL CARE TABLETS, HYDROTECH TABLETS

Chemical Name TRICHLORISOCYANURIC ACID

Emergency phone: ***281-457-4888***
Chemtrec: ***800-424-9300***

Date of Issue: 1/2/01
Revised Date: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	*PERCENT*	*CAS NO.*
TRICHLORISOCYANURIC ACID	99%	87-90-1

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: NOT ESTABLISHED.

Eye Contact CAN CAUSE EYE BURNS AND PERMANENT TISSUE DAMAGE.

Skin Contact CAN CAUSE SKIN BURNS, IRRITATION AND POSSIBLE ALLERGIC REACTION.

Ingestion CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH.

Inhalation CAUSES RESPIRATORY TRACT IRRITATION.

Carcinogenicity: ***NTP*** NO ***IARC*** NO ***OSHA*** NO

SECTION 4 - FIRST AID PROCEDCURES

Eye Contact: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

Skin Contact: IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.

Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

Ingestion: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

SECTION 5 -FIRE FIGHTING MEASURES

Flash Point NONFLAMMABLE.

Extinguishing Media USE MEDIA APPROPRIATE FOR SURROUNDING AREA.

Special Firefighting Procedures/Precautions	WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS.

SECTION 6 -ACCIDENTAL RELEASE MEASURES

For Spill:	SWEEP OR VACUUM MATERIAL AND PLACE IN CONTAINER FOR DISPOSAL. FLUSH REMAINING MATERIAL WITH LARGE AMOUNTS OF WATER. PREVENT IT FROM ENTERING WATERWAYS OR SEWERS.

SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

AVOID MOISTURE CONTAMINATION. KEEP OFF WET FLOORS.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection	USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
Ventilation	LOCAL AND MECHANICAL RECOMMENDED.
Protective Gloves	CHEMICAL IMPERVIOUS GLOVES.
Eye/Face Protection	CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.
Other Protection	CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.
Work Practices	USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F):	DECOMP AT 230	***Vapor Pressure (mmHg):***	NOT APPLICABLE
Freezing Point (°F):	NOT APPLICABLE	***Vapor Density (Air=1):***	NOT APPLICABLE
Solubility (H2O):	SOLUBLE	***Specific Gravity (H2O=1):***	< 1
pH	2.6	***Evaporation Rate:***	NOT DETERMINED

Appearance/Odor: WHITE SOLID WITH CHLORINE-LIKE/BLEACH ODOR.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	YES
Incompatible Materials	OXIDIZING AGENTS, REDUCING AGENTS, INORGANIC NITROGEN AND ORGANIC MATERIALS.
Decomposition Products	MAY EVOLE CHLORINE CONTAINING GAS.
Hazardous Polymerization:	WILL NOT OCCUR.

SECTION 11 - TOXICITY INFORMATION

LD50 SKIN = 7600 mg/kg LD50 ORAL = 600 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

NO DATA AVAILABLE.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

USA DOT Shipping Name: TRICHLOROISOCYANURIC ACID, DRY

Hazard Class: 5.1

UN/NA Number: UN2468

Packing Group: II

Subsidiary Hazard

Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

CERCLA RQ (lbs): NOT APPLICABLE

SARA Title III Section 312:

☑ ***Acute*** ☐ ***Chronic*** ☐ ***Flammable*** ☐ ***Sudden Release of Pressure*** ☐ ***Reactive***

SARA Title III Section 313: No

SARA Extremely Hazardous Substance: No

HMIS HAZARD RATING

Health: 3 ***Fire:*** 1 ***Reactivity:*** 2

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16 - OTHER INFORMATION

EPA Pesticide Registration Number: NOT APPLICABLE

NSF Maximum Use Level for Potable Water (Standard 60): NOT APPLICABLE

TSCA (Toxic Substance Control Act), 40 CFR 710:

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

DISCLAIMER

THE DATA PRESENTED IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF; HOWEVER, NEITHER SELLER NOR PREPARER MAKES ANY WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE INFORMATION PRESENTED. THE USER IS CAUTIONED TO PERFOM HIS OWN HAZARD EVALUATION AND TO RELY UPON HIS OWN DETERMINATIONS.

MATERIAL SAFETY DATA SHEET

Revision #: 03

Section 1 - Product Identification & Use

Product Name:	**Bromine Tablets**
WHMIS Classification:	Class C: Oxidizing Material
TDG Classification:	Oxidizing solid, n.o.s. (bromo-chloro-dimethylhydantoin) Class 5.1, UN 1479, Packing Group II
Supplier:	Advance Chemicals Ltd. 2023 Kingsway Ave Port Coquitlam, BC V3C 1S9 phone (604)945-9666 fax (604)945-9617
Emergency phone:	CANUTEC 24 hrs (613) 996-6666

Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD_{50} & LC_{50}
1-bromo-3-chloro-5, 5-dimethylhydantoin	92.5	126-06-7	no data found

Section 3 - Physical Data

Physical state: solid
Boiling point: N/A
Specific Gravity: N/A
Freezing point:120-148°C%
Volatile(By volume): <0.5
Solubility in water: 0.54g/100g @ 25°C
Vapour pressure: N/A
Evaporation rate: no data found
Odour & Appearance: Pungent, off-white tablets.

Section 4 - Fire or Explosion Hazard

Flammability: The product is considered to be flammable. Contamination with organic chemicals, acids, or ammonia may generate fumes leading to fire or explosion.
Flash Point: Decomposes at 165°C.
Extinguishing media: Use copious quantities of water.
Hazardous Combustion/Decomposition Products: Produces noxious gases: Br_2

Section 5 - Reactivity Data

Stability: Stable.
Incompatible substances: Strong acids and alkalis, high storage temperatures, organic materials, ammonia bearing compounds, strong reducing agents and moisture.
Polymerization: Will not occur.
Hazardous decomposition products: Thermal decomposition releases unidentified noxious gases.

Section 6 - Toxicological Properties

Route of Entry: Skin, eye, ingestion and acute inhalation.
Inhalation: May cause damage to lungs (systemic absorption). Severe to nose and throat.
Skin contact: Acute exposure may cause severe skin damage.
Eye contact: Acute exposure may cause severe eye damage.

Section 7 - Preventative Measures

Personal Protective Equipment: Avoid contact with skin and eyes. Wear chemical protective gloves, goggles and face shield, rubber apron and boots. Eye wash fountains and safety shower facilities should be provided nearby for emergency use.
Respiratory protection: Use an NIOSH/MSHA approved air purifying, dust, mist and particulate respirator.
Action to take for spills & leaks: Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small spills should be swept or vacuumed up and disposed of in government approved waste containers. The spill area may then be flushed with large quantities of water. Larger spills should be contained by diking with sand, soil or other non-combustible material, then transferred into approved waste containers for proper disposal. Do not allow spilled, or waste product to flow into waterways. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste. Incinerate or dissolve in water and neutralize halogen. Wet spills should be collected and neutralized.
Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.
Note: Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.
Storage & Handling Precautions: Warning, harmful or fatal if swallowed. Causes eye, skin and respiratory irritation. Avoid contact with eyes and repeated contact with skin and clothing. Do not ingest. Keep container tightly closed when not in use. Store upright in a cool, dry, well-ventilated place away from incompatible materials. Do not use pressure to empty container. Wash thoroughly after handling. Use with adequate ventilation.
Repair and Maintenance Precautions: Do not cut, grind, weld or drill in, on or near this container.

Section 8 - First Aid Measures

If inhaled: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. Keep patient warm and at rest. Give supplemental oxygen if victim is having trouble breathing.
In case of eye contact: Immediately flush eyes with clean water for at least twenty (20) minutes, lifting the upper and lower eyelids to ensure complete flushing action of the eyeball. Get immediate emergency medical attention. Do not transport victim until the recommended flushing period has been completed, unless eye flushing can be carried out during transport.
In case of skin contact: Wipe away excess material with a dry cloth then immediately flush skin with plenty of clean running water for at least twenty (20) minutes. Remove contaminated clothing and shoes. If irritation persists, get emergency medical attention. Wash and launder clothes before re-use.
In case of ingestion or swallowing: If victim is conscious, dilute stomach contents by giving one or two glasses of water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all-inclusive, and the manner and conditions of use may involve other and additional considerations.
Revised: 5 July 2004; 27 October 2006; 15 December 2006

MATERIAL SAFETY DATA SHEET

GLB Stabilizer

1. Product And Company Identification

Supplier	Manufacturer
GLB **1400 Bluegrass Lakes Parkway** **Alpharetta, GA 30004 United States** **Telephone Number:** (770)521-5999 **FAX Number:** (770)521-5959 **Web Site:** www.poolspacare.com	**Advantis Technologies Inc.** **1400 Bluegrass Lakes Parkway** **Alpharetta, GA 30004 United States** **Telephone Number:** (770) 521-5999 **FAX Number:** (770) 521-5959 **Web Site:** www.poolspacare.com
Supplier Emergency Contacts & Phone Number **CHEMTREC - DAY OR NIGHT: (800) 424-9300**	**Manufacturer Emergency Contacts & Phone Number** **CHEMTREC - DAY OR NIGHT: (800) 424-9300**

Issue Date: 04/18/2001

Product Name: GLB Stabilizer
CAS Number: Not Established
Chemical Family: Cyanurate
Chemical Formula: C3H3N3O3
MSDS Number: 57

Synonyms
CYA

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
CYANURIC ACID	108-80-5		

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

3. Hazards Identification

Primary Routes(s) Of Entry
Skin Contact

Eye Hazards
May cause eye irritation.

Skin Hazards
May cause skin irritation.

Ingestion Hazards
Harmful if swallowed.If ingested, get immediate medical attention

Inhalation Hazards
May cause respiratory tract irritation.

Signs And Symptoms
Low Toxicity irritating only as a dust

3. Hazards Identification - Continued

Conditions Aggravated By Exposure

None Known

First Aid (Pictograms)

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Consult Physician.

Skin

In case of contact, immediately flush skin with plenty of water for at least 15 minutes.

Ingestion

Call a physician or a poison control center immediately.

Inhalation

If inhaled, remove to fresh air.

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: N/A °F
Flammability Class: NOT FLAMMABLE

Extinguishing Media

Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Sweep up and remove immediately. Clean up on dry basis. Avoid release to the environment. Collect and dispose.

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Do not store with acids. Keep containers tightly closed. Store material in a cool and dry place. Away from food.

Handling Precautions

Avoid unnecessary contact with eyes skin and clothing.

Storage Precautions

Store in a cool dry place. Keep away from food

Work/Hygienic Practices

Use safe chemical handling procedures suitable for the hazards presended by this material.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls
Local exhaust acceptable. Special exhaust not required unless dust accumulation is a problem.

Eye/Face Protection
Safety glasses with side shields or goggles recommended.

Skin Protection
Chemical-resistant gloves.

Respiratory Protection
None normally required. If dust accumulation is a problem a dust mask is suggested.
Full Cover clothing should be worn

9. Physical And Chemical Properties

Appearance
White to gray Crystalline powder

Odor
None

Chemical Type: Mixture
Physical State: Solid
Melting Point: DECOMPOSES °F
Boiling Point: DECOMPOSES @ 70C °C
Specific Gravity: 0.83-0.93
Percent Volitales: NOT APPLICABLE
Percent VOCs: NOT APPLICABLE
Vapor Pressure: NIL
Vapor Density: NOT VOLATILE
Solubility: 1% AT 25C IN WATER
Viscosity: NOT APPLICABLE
Evaporation Rate: NOT APPLICABLE

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Incompatible Materials
NONE

Hazardous Decomposition Products
Oxides of Nitrogen and Carbon anc Cyanuric Acid

11. Toxicological Information

Acute Oral Effects
LD50 mg/kg Rat >5g/kg

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name
NOT REGULATED

Hazard Class
NOT REGULATED

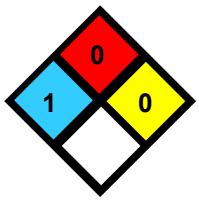
DOT Identification Number
NONE

DOT Shipping Label
NOT ASSIGNED

15. Regulatory Information

No Data Available...

NFPA



HMIS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	E

16. Other Information

Revision/Preparer Information
MSDS Preparer: JHW3
This MSDS Superceeds A Previous MSDS Dated: 07/26/2000

Disclaimer

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GLB

Printed Using MSDS Generator™ 2000

MATERIAL SAFETY DATA SHEET

GLB Alkalinity Up

1. Product And Company Identification

Supplier	Manufacturer
GLB **1400 Bluegrass Lakes Parkway** **Alpharetta, GA 30004 United States** **Telephone Number:** (770)521-5999 **FAX Number:** (770)521-5959 **Web Site:** www.poolspacare.com	**Advantis Technologies Inc.** **1400 Bluegrass Lakes Parkway** **Alpharetta, GA 30004 United States** **Telephone Number:** (770) 521-5999 **FAX Number:** (770) 521-5959 **Web Site:** www.poolspacare.com
Supplier Emergency Contacts & Phone Number **CHEMTREC - DAY OR NIGHT: (800) 424-9300**	**Manufacturer Emergency Contacts & Phone Number** **CHEMTREC - DAY OR NIGHT: (800) 424-9300**

Issue Date: 01/19/05

Product Name: GLB Alkalinity Up
CAS Number: Not Established
Chemical Family: Alkali Salt
Chemical Formula: NaHCO3
MSDS Number: 48

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
SODIUM BICARBONATE	144-55-8		

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% of more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

3. Hazards Identification

Primary Routes(s) Of Entry
Skin Contact

Eye Hazards
Causes eye irritation.

Skin Hazards
Causes skin irritation.

Ingestion Hazards
Harmful if swallowed. If ingested, get immediate medical attention

Inhalation Hazards
May cause respiratory tract irritation.

Signs And Symptoms
none known

First Aid (Pictograms)

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Consult Physician.

Skin

Wash the affected area under tepid running water using a mild soap.

Ingestion

INDUCE VOMITING. Drink large amounts of water. Contact a physician or poison control.

Inhalation

If inhaled, remove to fresh air.

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: N/A °F
Flammability Class: NOT FLAMMABLE

Extinguishing Media

Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.
This material is used as a dry powder extinguishing agent for all classes of fires

6. Accidental Release Measures

Sweep up and remove immediately. Collect and dispose.

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Do not store with acids. Keep containers tightly closed. Store material in a cool and dry place.

Handling Precautions

Avoid contact with eyes.

Storage Precautions

Keep away from acids. Store in a cool dry place.

Work/Hygienic Practices

Use safe chemical handling procedures suitable for the hazards presended by this material.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls
Use with adequate general and local exhaust ventilation.

Eye/Face Protection
Safety glasses with side shields or goggles recommended.

Skin Protection
Chemical-resistant gloves.

Respiratory Protection
None normally required. If dust accumulation is a problem a dust mask is suggested.

9. Physical And Chemical Properties

Appearance
White Granules

Odor
None

Chemical Type: Mixture
Physical State: Solid
Melting Point: DECOMPOSES °F
Boiling Point: DECOMPOSES °F
Percent Volitales: NOT APPLICABLE
Percent VOCs: NOT APPLICABLE
Vapor Pressure: NOT APPLICABLE
Vapor Density: NOT APPLICABLE
pH Factor: 8.5 At a Concentration Of 1% SOLUTION IN WATER
Solubility: 9.6G/100ML AT 20C IN WATER
Viscosity: NOT APPLICABLE
Evaporation Rate: NOT APPLICABLE

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)
High Humidity Causes Caking

Incompatible Materials
All Acids

Hazardous Decomposition Products
CO2

11. Toxicological Information

Acute Oral Effects
LD50 mg/kg Rat >4.22g/kg MAY CAUSE IRRITATION OF EYES AND RESPIATORY PASSAGES.
INGESTATION MAY CAUSE GASTROINTESTINAL IRRITATION

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name
NOT REGULATED

Hazard Class
NOT REGULATED

Secondary Hazard Class
NOT REGULATED

DOT Identification Number
NONE

DOT Shipping Label
NOT ASSIGNED

Freight Class
NOT REGULATED

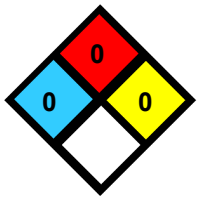
Packaging Requirements
NOT REGULATED

15. Regulatory Information

State Regulations
Sodium Bicarbonate is considered a hazardous waste in California

Canadian Regulatory Information
Class D, Div 2b - Poisonous or Infectious Material: other toxic effects

NFPA



HMIS

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	E

16. Other Information

Revision/Preparer Information
MSDS Preparer: JHW3
This MSDS Superceeds A Previous MSDS Dated: 07/26/2000

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Disclaimer - Continued
GLB

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MATERIAL SAFETY DATA SHEET

GLB Clear Blue

1. Product And Company Identification

Supplier
GLB
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770)521-5999
FAX Number: (770)521-5959
Web Site: www.poolspacare.com

Manufacturer
Advantis Technologies, Inc.
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Supplier Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Manufacturer Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 02/08/2006

Product Name: GLB Clear Blue
Chemical Name: Catonic Polyamide in water
CAS Number: Not Established
Chemical Formula: Proprietery
MSDS Number: 36

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
Polydimethyldiallyammonium Chloride	26062-79-3		

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

3. Hazards Identification

Primary Routes(s) Of Entry
Skin Contact

Eye Hazards
May cause eye irritation.

Skin Hazards
May cause skin irritation. Non-sensitizer for skin.

Ingestion Hazards
Harmful if swallowed.

Inhalation Hazards
Slightly hazardous in case of inhalation.

Signs And Symptoms
Irritant to eyes and skin

4. First Aid Measures

No Data Available...

4. First Aid Measures - Continued

Eye
In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes.

Skin
Remove contaminated clothing and shoes.Rinse the affected area with tepid water for at least 15 minutes.

Ingestion
DO NOT INDUCE VOMITING. Drink large amounts of water or milk. Contact a physician or poison control. In cases where individual is semi-comatose, comatose, or convulsing, DO NOT GIVE FLUIDS BY MOUTH.

Inhalation
If inhaled, remove to fresh air.

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: >100 °C
Flash Point Method: Closed Cup
Flammability Class: NOT FLAMMABLE

Fire And Explosion Hazards
In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride.

Extinguishing Media
Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions
CAUTION Surfaces wet with this product are slippery. Keep containers cool by spraying with water if exposed to fire.

6. Accidental Release Measures

Clean up spill immediately. Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Flush spill area with water. Use appropriate containers to avoid environmental contamination.
CAUTION Surfaces wet with this product are slippery.

7. Handling And Storage

Handling And Storage Precautions
Keep out of reach of children. Store material in a cool and dry place. Wash thoroughly after handling.

Storage Precautions
Avoid contact with skin and clothing.

Work/Hygienic Practices
Wash thoroughly with soap and water after handling.

7. Handling And Storage - Continued

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls
Local exhaust acceptable. Special exhaust not required.

Eye/Face Protection
Safety glasses with side shields or goggles recommended.

Skin Protection
Chemical-resistant gloves.

Respiratory Protection
None normally required.

9. Physical And Chemical Properties

Appearance
Clear Blue

Odor
Mild amine

Chemical Type: Mixture
Physical State: Liquid
Melting Point: NOT APPLICABLE °F
Boiling Point: 212 °F
Specific Gravity: 1.0-1.1
Molecular Weight: Proprietary
Percent Volitales: NEGLIGIBLE
Packing Density: NOT DETERMINED
Vapor Pressure: NOT DETERMINED
Vapor Density: NOT DETERMINED
pH Factor: 2-3
Solubility: Soluble in Water
Viscosity: NOT DETERMINED
Evaporation Rate: <1

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: will not occur

Conditions To Avoid (Stability)
Strong Oxidizers

Incompatible Materials
Avoid contact with strong oxidizers

Hazardous Decomposition Products
When heated toxic fumes such as Oxides of Carbon, Nitrogen and Hydrogen chloride may be present

MATERIAL SAFETY DATA SHEET

GLB Clear Blue

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

Refer to applicable federal, state, and local regulations prior to disposition of container and residual contents.

14. Transport Information

Proper Shipping Name
NOT REGULATED

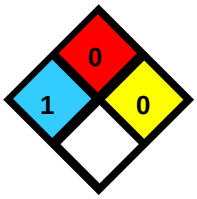
Hazard Class
NONE ASSIGNED

DOT Identification Number
NONE

15. Regulatory Information

No Data Available...

NFPA



HMIS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

16. Other Information

Revision/Preparer Information
MSDS Preparer: JHW
This MSDS Superceeds A Previous MSDS Dated: 07/24/2000

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GLB

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MATERIAL SAFETY DATA SHEET

GLB Filter Cleanse

1. Product And Company Identification

Supplier
GLB
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770)521-5999
FAX Number: (770)521-5959
Web Site: www.poolspacare.com

Manufacturer
Advantis Technologies, Inc.
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Supplier Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Manufacturer Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 05/05/2004

Product Name: GLB Filter Cleanse
Chemical Name: Acid surfactant cleaner
Chemical Family: Acid
Chemical Formula: Proprietary Mixture
MSDS Number: 116

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
CITRICACID	77-92-9		
SODIUMBISULFATE	7681-38-1		

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

EMERGENCY OVERVIEW

Corrosive to eyes skin and respiatory tract.

Hazards Identification (Pictograms)

3. Hazards Identification

Primary Routes(s) Of Entry
Skin Contact

Eye Hazards
Causes eye damage.

Skin Hazards
May cause skin irritation.

Ingestion Hazards
Harmful if swallowed.

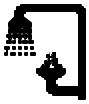
GLB Filter Cleanse

3. Hazards Identification - Continued

Inhalation Hazards
Causes respiratory tract irritation.

Signs And Symptoms
Irritation of Eyes, Skin and Respiratory Passages

First Aid (Pictograms)



4. First Aid Measures

Eye
In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician or a poison control center immediately.

Skin
In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes.

Ingestion
DO NOT INDUCE VOMITING. Call a physician or a poison control center immediately. If victim is fully conscious, give one or two cups of water or milk to drink.

Inhalation
If breathing is difficult, give oxygen. If inhaled, remove to fresh air.

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: N/A °F

Fire And Explosion Hazards
At temperatures in excess of 570 F, hazardous fumes of sulfur dioxide and sulfur trioxide are evolved. Use forced draft ventilation or gas mask.

Extinguishing Media
Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions
Firefighters should wear self-contained breathing apparatus and full protective gear. Water can be used to cool and protect exposed material.

6. Accidental Release Measures

Clean up spill immediately. Neutralize spill area with soda ash or lime. Flush spill area with water. Use appropriate containers to avoid environmental contamination.

GLB Filter Cleanse

Handling & Storage (Pictograms)

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Store material in a cool and dry place. Keep containers tightly closed.

Handling Precautions

Use only with adequate personal protection.

Storage Precautions

Store in a cool dry place.

Work/Hygienic Practices

Use safe chemical handling procedures suitable for the hazards presended by this material.
Avoid contact with eyes. Solutions of this material are acidic and strongly irritating. Will attack most metals.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls

Local exhaust acceptable. Special exhaust not required

Eye/Face Protection

Safety glasses with side shields or goggles recommended.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

None normally required.

9. Physical And Chemical Properties

Appearance

Purple to Red Granular

Odor

Slightly Acidic

Chemical Type: Mixture
Physical State: Solid
Melting Point: n/a °F
Boiling Point: 220 °F
Specific Gravity: 1.30
Molecular Weight: NOT DETERMINED
Percent Volitales: NOT DETERMINED
Vapor Pressure: NOT DETERMINED
pH Factor: <1 At a Concentration Of 1% solution in water
Solubility: <30%

GLB Filter Cleanse

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur.

Incompatible Materials
Oxidizers, Cyanides, Sulfides, Strong Alkaline or caustic material.

Hazardous Decomposition Products
At Temperatures in excess of 570F Hazardous fumes of Sulfur Dioxide and Sulfer Trioxide are evolved.

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name
NOT REGULATED

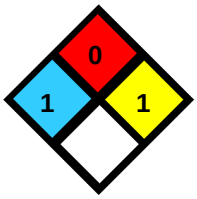
Hazard Class
NOT REGULATED

DOT Identification Number
NONE

15. Regulatory Information

Ingredient(s) - State Regulations
SODIUM BISULFATE
New Jersey - Workplace Hazard
New Jersey - Special Hazard
New York City - Hazardous Substance

NFPA



HMIS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	F

16. Other Information

Revision/Preparer Information
MSDS Preparer: JHW
This MSDS Superceeds A Previous MSDS Dated: 11/03/2000

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GLB Filter Cleanse

Disclaimer - Continued

GLB

MATERIAL SAFETY DATA SHEET

Sodium Carbonate

Section 01 - Chemical And Product And Company Information

Product Identifier …….. Sodium Carbonate (Soda Ash)

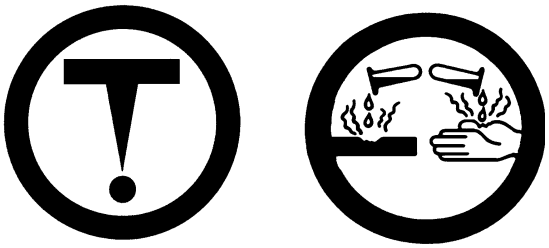
Product Use ……..... Glass manufacture, detergent manufacture, sodium chemical manufacture, carbonate chemicals manufacture, pulp and paper, brine treatment,water hardness removal, pH adjustment in water or waste water, flue gas desulfurization, coal treatment, ion exchange resin regeneration

Supplier Name…….…. ClearTech Industries Inc.
2302 Hanselman Avenue
Saskatoon, SK. Canada
S7L 5Z3

Prepared By.....……..….. ClearTech Industries Inc. Technical Department
Phone: (306)664-2522

Preparation Date.....……..... December 21, 2007

24-Hour Emergency Phone…….... 306-664-2522



Section 02 - Composition / Information on Ingredients

Hazardous Ingredients....…….... Sodium Carbonate 99.8%

CAS Number.....……....Sodium Carbonate 497-19-8

Synonym (s).....……...Disodium carbonate, calcined soda, soda ash, lite soda ash, dense soda ash, carbonic acid, disodium salt, sodium carbonate anhydrous

Section 03 - Hazard Identification

Inhalation..... May cause upper respiratory tract irritation.

Skin Contact / Absorption..... May cause redness, swelling from prolonged contact, especially in hot weather.

Eye Contact..... Causes irritation, may burn eyes.

Ingestion..... Low acute oral toxicity. May cause nausea, vomiting, diarrhea, irritation, and stomach ache.

Exposure Limits..... Treat as a nuisance particulate: TWA(OSHA)= 5mg/m^3; TWA(Ontario Ministry of Labour)= 10mg/m^3

Section 04 - First Aid Measures

Inhalation..... Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact / Absorption..... Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.

Eye Contact..... Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention

Ingestion..... Do not induce vomiting. If vomiting occurs, lean victim forward to prevent breathing in vomitus. Give large amounts of water. Do not give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

Additional Information..... While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities, and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

Section 05 - Fire Fighting

Conditions of Flammability..... Non flammable

Means of Extinction..... Product does not burn. Use appropriate extinguishing media for material that is supplying the fuel to the fire.

Flash Point..... Not applicable

Auto-ignition Temperature……. Not applicable

Upper Flammable Limit …….. Not applicable

Lower Flammable Limit..……..... Not applicable

Hazardous Combustible Products... Heating sodium carbonate liberates CO_2 and fumes of sodium oxide.

Special Fire Fighting Procedures..... Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Explosion Hazards……..... Not applicable

Section 06 - Accidental Release Measures

Leak / Spill.....……..... Wear appropriate personal protective equipment. Ventilate area. Stop or reduce leak if safe to do so. Prevent material from entering sewers.

Deactivating Materials..……..... Use an acid to neutralize after the soda ash has been made into a solution.

Section 07 - Handling and Storage

Handling Procedures.....…….... Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Storage Requirements.....……..….. Product is hygroscopic and tends to cake on storage. Store in a cool, dry, well ventilated place. Keep container tightly closed, and away from acids.

Section 08 - Personal Protection and Exposure Controls

Protective Equipment

Eyes.…….…….... Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Respiratory……..... Respiratory protection is not normally required. If use creates dust formations, then a NIOSH approved respirator with a dust cartridge is recommended.

Gloves……..... Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Clothing……..……..... Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Footwear……..... No special footwear is required other than what is mandated at place of work.

Engineering Controls

Ventilation Requirements……..... Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other……..... Emergency shower and eyewash should be in close proximity.

Section 09 - Physical and Chemical Properties

Physical State.....……...……..... Solid

Odor and Appearance…..…….... White granular solid, no odour

Odor Threshold...……..... Not applicable

Specific Gravity (Water=1)…….. ~2.53 @ 20°C

Vapor Pressure (mm Hg, 20C)…..…. Not applicable

Vapor Density (Air=1)..……..... Not applicable

Evaporation Rate.....…….…….. Not applicable

Boiling Point.....……..... Not available

Freeze/Melting Point...……..... 851°C

pH......…….. 11.3 (1% solution)

Water/Oil Distribution Coefficient.... Not available

Bulk Density.....…….. 0.70-1.12g/cm^3

% Volatiles by Volume……..…….. Not applicable

Solubility in Water..... 33.2%(w/w)

Molecular Formula..... Na_2CO_3

Molecular Weight..... 105.99

Section 10 - Stability and Reactivity

Stability..... Stable under normal conditions. Avoid conditions of extreme heat (i.e.:temperatures greater than 400ºC). Heating liberates fumes of sodium oxide.

Incompatibility..... Aluminium, fluorine, humid air, moisture, acids, sulfuric acid, magnesium, phosphorus pentaoxide, molten lithium.

Hazardous Products of Decomposition.. Carbon dioxide and heat form from reaction with acids.

Polymerization..... Will not occur

Section 11 - Toxicological Information

Irritancy..... Mild irritant. Skin and eye irritant.

Sensitization..... Non-sensitizing (humans, 0.25% Sodium carbonate)

Chronic/Acute Effects..... May cause severe irritation of the eyes, including corneal opacities. Dusts and mists may be irritating to the skin, mucous membranes and upper respiratory tract. No significant acute toxicological effects expected.

Synergistic Materials..... Not available

Animal Toxicity Data..... LD_{50}(Rat, Oral)= 4090mg/kg
LC_{50}(Rat, Inhalation, 2hr)= 2.3mg/L

Carcinogenicity..... Not considered to be carcinogenic by IARC, NTP, ACGIH, and OSHA

Reproductive Toxicity..... Not available

Teratogenicity..... Not available

Mutagenicity..... Not available

Section 12 - Ecological Information

Fish Toxicity..... TL_m(48hr, Mosquito Fish)= 840mg/L
TL_m(96hr, Mosquito Fish)= 1200mg/L
LC_{50}(Daphina magna, 96hr)= 265-565mg/L
LC_{50}(Bluegill sunfish, 96hr)= 300-320mg/L

Biodegradability..... Not applicable

Environmental Effects..... Not available

Section 13 - Disposal Consideration

Waste Disposal.....Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 - Transportation Information

TDG Classification

Class..... Not regulated

Group..... Not regulated

PIN Number..... Not regulated

Other..... Secure containers (full and/or empty) with suitable hold down devises during shipment.

Section 15 - Regulatory Information

WHMIS Classification.....D2, E

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

NSF Certification.....Product is certified under ANSI/NSF Standard 60 for corrosion control, scale control and pH adjustment at a maximum dosage of 150mg/L.

Section 16 - Other Information

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages

incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / MSDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Material Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service or technical service department.

ClearTech Industries Inc. - Locations

Corporate Head Office: 2302 Hanselman Avenue, Saskatoon, SK, S7L 5Z3
Phone: 306-664-2522
Fax: 306-665-6216

www.ClearTech.ca

Location	Address	Postal Code	Phone Number	Fax Number
Richmond, B.C.	12431 Horseshoe Way	V7A 4X6	604-272-4000	604-272-4596
Calgary, AB.	5516E - 40th St. S.E.	T2C 2A1	403-279-1096	403-236-0989
Edmonton, AB.	11750 - 180th Street	T5S 1N7	780-452-6000	780-452-4600
Saskatoon, SK.	2302 Hanselman Avenue	S7L 5Z3	306-933-0177	306-933-3282
Regina, SK.	555 Henderson Drive	S42 5X2	306-721-7737	306-721-8611
Winnipeg, MB.	340 Saulteaux Crescent	R3J 3T2	204-987-9777	204-987-9770
Mississauga, ON.	7480 Bath Road	L4T 1L2	905-612-0566	905-612-0575

24 Hour Emergency Number - All Locations - 306-664-2522

MATERIAL SAFETY DATA SHEET

GLB Sequa Sol

1. Product And Company Identification

Supplier
GLB
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770)521-5999
FAX Number: (770)521-5959
Web Site: www.poolspacare.com

Manufacturer
Advantis Technologies, Inc.
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Supplier Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Manufacturer Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 03/28/2007

Product Name: GLB Sequa Sol
Chemical Name: Sequestering Agent
CAS Number: Not Established
Chemical Formula: Proprietary Mixture
MSDS Number: 5

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
SODIUM CITRATE	68-04-2		

Exemption from disclosure of concentration and chemical identity has been granted on 26 July, 1994 and #1206 was assigned.

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

3. Hazards Identification

Primary Routes(s) Of Entry
Ingestion, Eye Contact, Skin Contact

Eye Hazards
May cause eye irritation.

Skin Hazards
May cause skin irritation.

Ingestion Hazards
Ingestion of this product may cause irritation of the gastrointestinal tract, nausea, vomiting, and diarrhea.

Inhalation Hazards
May be harmful if inhaled.

First Aid (Pictograms)

4. First Aid Measures

Eye
Remove the victim from the source of contamination or exposure to nearest eyewash or other source of clean water.

Skin
Rinse the affected area with tepid water for at least 15 minutes.

Ingestion
Get medical attention immediately.

Inhalation
If inhaled, remove to fresh air. Consult a physician.

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: n/a °F

Fire And Explosion Hazards
May produce Toxic fumes of Na2O, POx

Extinguishing Media
Use the appropriate extinguishing media for the surrounding fire.

6. Accidental Release Measures

Flush spill area with water.

7. Handling And Storage

Handling And Storage Precautions
Keep out of reach of children.

Handling Precautions
Avoid contact with eyes. Do not get on skin.

Storage Precautions
Store in a cool dry place.

Work/Hygienic Practices
Use safe chemical handling procedures suitable for the hazards presended by this material.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls
Local exhaust acceptable. Special exhaust not required

Eye/Face Protection
Safety glasses with side shields or goggles recommended.

Skin Protection
Lab coat or other work clothing. Launder before reuse. Chemical-resistant gloves.

Respiratory Protection
None normally required.

9. Physical And Chemical Properties

Appearance
Clear liquid

Odor
None

Chemical Type: Mixture
Physical State: Liquid
Melting Point: n/a °F
Boiling Point: >1500 °C
Specific Gravity: 1 g/ml
Percent Volitales: Not established
Vapor Pressure: Not established
Solubility: soluble
Evaporation Rate: Not established

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Incompatible Materials
None known

Hazardous Decomposition Products
Toxic fumes of Na2O, POx

11. Toxicological Information

Acute Oral Effects

	LD50 mg/kg (rat)
Sodium Citrate	1546 mg/kg

12. Ecological Information

No Data Available...

13. Disposal Considerations

May be generally flushed into sanitary sewer.Refer to applicable federal, state, and local regulations prior to disposition of container and residual contents.

14. Transport Information

Proper Shipping Name
NOT REGULATED

Hazard Class
NOT REGULATED

Secondary Hazard Class
NOT REGULATED

DOT Identification Number
NONE

DOT Shipping Label
NOT ASSIGNED

Freight Class
NOT REGULATED

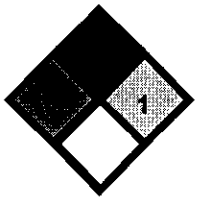
Packaging Exceptions
NOT REGULATED

15. Regulatory Information

Canadian Regulatory Information
Class D, Div 2b - Poisonous or Infectious Material: other toxic effects

WHMIS - Canada (Pictograms)

NFPA



HMIS

HEALTH	1
	0
REACTIVITY	0
PERSONAL PROTECTION	E

16. Other Information

No Data Available...

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitablility of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

GLB

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Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Personal Protective Equipment
	Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). **Class E: Corrosive liquid.**	

Section 1. Product and Company Identification

Product Name / Trade name	**Muriatic Acid**	**Associated Product's Item Code**	**12-284EXP**
Synonym	Hydrochloric acid	**CAS #**	7647-01-0
Chemical Family	Inorganic acid.	**Validation Date**	**July 08 2004**
Chemical Formula	$HCl_{(aq)}$	**Print Date**	July 08 2004
Manufacturer	Recochem Inc. 850 Montee de Liesse Montreal, Quebec 514-341-3550	**In Case of Emergency**	Recochem Inc. Communications and Regulatory Affairs Department (905) 791-1788
Material Uses	Consumer products: Cleaning solution.		

Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	Exposure Limits	
			Canadian Values (ACGIH)	U.S. Values (OSHA)
Hydrochloric acid	7647-01-0	31-32% / 20º Baume		Muriatic Acid Not available.

Section 3. Hazard Identification

Emergency Overview

DANGER!

CAUSES SEVERE EYE AND SKIN BURNS. MAY BE FATAL IF SWALLOWED.

Do not get in eyes, on skin or on clothing. Do not ingest. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential Acute Health Effects

See Section #11: "Toxicological Information" for further human health effects.

Very dangerous in case of skin contact (corrosive, irritant, permeator), of eye contact (irritant), of inhalation.
Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract.
Skin contact may produce burns.
Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
Inflammation of the eye is characterized by redness, watering, and itching.
Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Note to Physician

Not available.

Continued on Next Page

Section 4. First Aid Measures

Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. SEEK IMMEDIATE MEDICAL ATTENTION.
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible. Place the victim under a deluge shower. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Seek medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well ventilated area. Seek medical attention.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek medical attention.

Section 5. Fire Fighting Measures

Products of Combustion	Not applicable.
Fire Fighting Media and Instructions	Use DRY chemicals, CO2, water spray or foam.
Fire Hazards	Flammable hydrogen gas may be produced on prolonged contact with metals.
Explosion Hazards	Flammable hydrogen gas may be produced on prolonged contact with metals.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. If necessary: **Neutralize the residue with a dilute solution of sodium carbonate.**
Large Spill and Leak	Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Place in appropriate container and dispose of in accordance with regional regulations. **Neutralize the residue with a dilute solution of sodium carbonate**.

Section 7. Handling and Storage

Handling	Not available.
Storage	**See Section #10 for applicable incompatible materials.** May corrode metallic surfaces. Store in a polyethylene container. Keep away from incompatibles. Keep container tighltly closed in a cool, well-ventilated place.

Section 8. Exposure Controls, Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
Eyes	Face shield.
Body	Synthetic apron.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Impervious gloves.

Continued on Next Page

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	**Odour**	Irritant.
Molecular Weight	Not applicable.	**Taste**	Not available.
pH (1% Soln/Water)	1 [Acidic.]	**Colour**	Clear colorless to light yellow.
Boiling/Condensation Point	>81°C (177.8°F)	**Volatility**	Not available.
Melting/Freezing Point	Not available.	**Evaporation Rate**	Not available.
Specific Gravity	1.16 (Water = 1)	**Odour Threshold**	Not available.
Vapour Pressure	25 mm of Hg (@ 20°C)	**Viscosity**	Not available.
Vapour Density	Not available.	**Solubility**	Soluble in water, methanol.
VOC Content	Not available.	**Other Properties**	Not available.

The Product is:	Non-flammable.
Auto-ignition Temperature	Not applicable.
Flash Point	Not applicable.
Flammable Limits	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.

Section 10. Stability and Reactivity

Stability	The product is stable.
Conditions of Instability	No additional remark.
Incompatibility with Various Substances	Reactive with oxidizing agents, metals, alkalis.

Section 11. Toxicological Information

Routes of Entry	Skin contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 900 mg/kg [Rabbit.]. (Hydrochloric acid).

Acute Effects on Humans

Eyes	Very hazardous in case of eye contact (irritant). Corrosive to eyes. Inflammation of the eye is characterized by redness, watering, and itching.
Skin	Very hazardous in case of skin contact (corrosive, irritant). Skin contact may produce burns. Severe over-exposure can result in death. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Inhalation	Very hazardous in case of inhalation. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation. May be fatal if inhaled.

Continued on Next Page

Ingestion	May be fatal if swallowed. May cause burns to mouth, throat and stomach.
Chronic Effects on Humans	**CARCINOGENIC EFFECTS**: Classified NONE. **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available. **DEVELOPMENTAL TOXICITY**: Not available. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 12. Ecological Information

Ecotoxicity	**For accidential discharges into environment, see Section #6: "Accidential Release Measures" for suggested instructions.** Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

Canada Transportation of Dangerous Goods (TDG) Information

Primary Class	Class 8: Corrosive material
Subsidiary Class (if applicable)	-
Proper shipping name	hydrochloric acid
Hazard Identification Number	1789
Packing Group	II
Special Provisions	In containers of 1 L (1Kg) capacity or less this product is classified as a "Limited Quantities""Consumer Commodity" under TDG regulations.

International Maritime Dangerous Goods (IMDG) Transportation Information

Primary Class	Class 8: Corrosive material
Subsidiary Class (if applicable)	-
Proper shipping name	Hydrochloric acid
Hazard Identification Number	1789
Packing Group	II
Marine Pollutant	Not pollutant.
Special Provisions	-

No placard (handling and hazard label) required.

United States Department of Transportation (DOT) Information

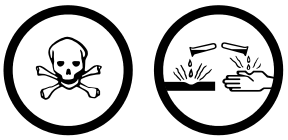
Continued on Next Page

Primary Class	Class 8: Corrosive material
Subsidiary class (if applicable)	-
Proper shipping name	hydrochloric acid
Hazard Identification Number	1789
Packing Group	II
Special Provisions	In containers of 1 L (1Kg) this product is qualified as a "consumer commodity" ORM-D under DOT

International Air Transport Association (IATA)	For air shipment classification and associated regulations, please refer to the latest edition of IATA Dangerous Goods Regulations.

Section 15. Other Regulatory Information and Pictograms

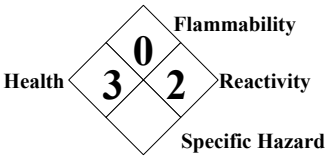
WHMIS Classification (Canada)	Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). Class E: Corrosive liquid.
Canada Domestic Substances List (DSL) Status	This product and/ or all of its components are on the DSL.
HCS Classification (U.S.A.)	Corrosive Material
U.S.A. Regulatory Lists	This product and/ or all of its components are on the TSCA inventory list.



Hazardous Material Information System (U.S.A.)

Health	3
Flammability	0
Reactivity	2
Personal Protection	D

National Fire Protection Association (U.S.A.)



Section 16. Other Information

Validated and verified by Compliance and Technical Information Manager on July 08 2004

Printed July 08 2004

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MSDS are available at www.recochem.com

MATERIAL SAFETY DATA SHEET

GLB Stain Magnet

1. Product And Company Identification

Supplier
GLB
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770)521-5999
FAX Number: (770)521-5959
Web Site: www.poolspacare.com

Manufacturer
Advantis Technologies, Inc.
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Supplier Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Manufacturer Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 03/05/2004

Product Name: GLB Stain Magnet
Chemical Family: Formulated Stain Remover
Chemical Formula: Proprietary Mixture
MSDS Number: 32

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
SODIUMERYTHROBATE	6381-77-7		
SODIUMSULFITE	7757-83-7		

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

3. Hazards Identification

Primary Routes(s) Of Entry
Skin Contact

Eye Hazards
Causes eye irritation.

Skin Hazards
Causes skin irritation.

Ingestion Hazards
Harmful if swallowed. May cause colic and diarrhea, circulatory disturbances, CNS depression and Death. If ingested, get immediate medical attention

Inhalation Hazards
May cause respiratory tract irritation. May cause Central Nervous System effects. May cause delayed lung injury.

Signs And Symptoms
Irritation of Eyes, Skin and Respiratory Passages

GLB Stain Magnet

First Aid (Pictograms)

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician or a poison control center immediately.

Skin

Wash the affected area under tepid running water using a mild soap. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion

If swallowed, induce vomiting immediately. Call a physician or a poison control center immediately.

Inhalation

If inhaled, remove to fresh air.If breathing is difficult, give oxygen. Consult Physician

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: N/A °F
Flammability Class: NOT FLAMMABLE

Extinguishing Media

Use CO2 (Carbon Dioxide), dry chemical, or foam.

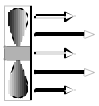
Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear. Water can be used to cool, protect exposed material and knock down fumes.

6. Accidental Release Measures

Sweep up and remove immediately.Flood with water in accordance with applicable regulations.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children.
Wear necessary protective equipment. If substantial dust in in the air take measures to remove sources of ignition to prevent possible dust combustion or explosion. Promptly ventilate area. Keep containers tightly closed. Keep away from Acids and Oxiders

Handling Precautions

Avoid creating dust. Avoid contact with eyes. Use NIOSH/MSHA approved mist respirator.

GLB Stain Magnet

7. Handling And Storage - Continued

Work/Hygienic Practices

Use safe chemical handling procedures suitable for the hazards presented by this material.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls

Use with adequate ventilation if dusty conditions prevail or sulfur dioxide gas is released.

Eye/Face Protection

Safety glasses with side shields or goggles recommended.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

Use NIOSH/MSHA approved dust and mist respirator

Ingredient(s) - Exposure Limits

SODIUM SULFITE

PEL	TLV
5ppm	2ppm

Full Work Clothing, including long sleeved shirt and trousers required.

9. Physical And Chemical Properties

Appearance

White Granules

Odor

None

Chemical Type: Mixture
Physical State: Solid
Melting Point: NOT DETERMINED °F
Specific Gravity: 1.2-2.7
Molecular Weight: NOT DETERMINED
Percent Volitales: NOT DETERMINED
Vapor Pressure: NOT APPLICABLE
Vapor Density: NOT APPLICABLE
pH Factor: 8-10 At a Concentration Of 1% SOLUTION IN WATER
Solubility: SOLUBLE IN WATER
Evaporation Rate: NOT APPLICABLE

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

High temperatures. Before melting may yield sulfur dioxide with a hazardous residue

Incompatible Materials

Avoid contact with strong acids and oxidizers

GLB Stain Magnet

10. Stability And Reactivity - Continued

Hazardous Decomposition Products
Sulfur dioxide gas and sodium sulfide residue

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dissolve in water, using caution as solution may increase in temperature. Neutralize with acid and flush to sewer if in accordance with applicable federal, state and local government regulations. Good ventilation is required during neutralization due to the release of SO2 gas. Oxidation to sodium sulfate solution may be required, as for example by adding a slight excess hydrogen peroxide carefully and stirring. Neutralized waste may have to be disposed of by a contractor.

14. Transport Information

Proper Shipping Name
NOT REGULATED

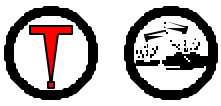
Hazard Class
NOT REGULATED

DOT Identification Number
NONE

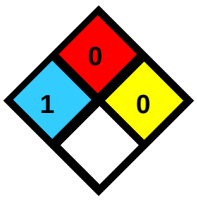
15. Regulatory Information

Canadian Regulatory Information
Class D, Div 2b - Poisonous or Infectious Material: other toxic effects
Class C - Oxidizing Material

WHMIS - Canada (Pictograms)



NFPA



HMIS

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

16. Other Information

Revision/Preparer Information
MSDS Preparer: JHW3
This MSDS Superceeds A Previous MSDS Dated: 07/21/2000

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitablility of this information for the user's intended purposes

GLB Stain Magnet

Disclaimer - Continued

or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

GLB

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MATERIAL SAFETY DATA SHEET

GLB Natural Clear

1. Product And Company Identification

Supplier
GLB
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770)521-5999
FAX Number: (770)521-5959
Web Site: www.poolspacare.com

Manufacturer
Advantis Technologies, Inc.
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Supplier Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Manufacturer Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 04/16/2007

Product Name: GLB Natural Clear
Chemical Name: Enzymatic Cleaner
CAS Number: Not Established
Chemical Family: Enzyme
Chemical Formula: Proprietary
MSDS Number: 21

2. Composition/Information On Ingredients

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

3. Hazards Identification

Primary Routes(s) Of Entry
Eye Contact, Skin Contact

Eye Hazards
May cause eye irritation.

Skin Hazards
May cause skin irritation.

Ingestion Hazards
If ingested, get immediate medical attention

Inhalation Hazards
None known

First Aid (Pictograms)

4. First Aid Measures

No Data Available...

MATERIAL SAFETY DATA SHEET

GLB Natural Clear

4. First Aid Measures - Continued

Eye
In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes.

Skin
Remove contaminated clothing and shoes. Wash affected areas with soap and water.

Ingestion
DO NOT INDUCE VOMITING. Drink large amounts of water. Contact a physician or poison control.

Inhalation
No known hazard

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: n/a °F

Extinguishing Media
Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions
Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Clean up spill immediately. Contain and/or absorb spill with inert material (e.g. sand, vermiculite).

7. Handling And Storage

Handling And Storage Precautions
Keep out of reach of children. Store material in a cool and dry place.

Storage Precautions
Keep out of reach of children. Store in a cool dry place.

Work/Hygienic Practices
Use safe chemical handling procedures suitable for the hazards presented by this material.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls
Local exhaust acceptable. Special exhaust not required

Eye/Face Protection
Safety glasses with side shields or goggles.

Skin Protection
Chemical-resistant gloves.

MATERIAL SAFETY DATA SHEET

GLB Natural Clear

8. Exposure Controls/Personal Protection - Continued

Respiratory Protection
None normally required.

9. Physical And Chemical Properties

Appearance
Clear yellow liquid

Odor
Floral

Chemical Type: Mixture
Physical State: Liquid
Melting Point: NOT DETERMINED °F
Boiling Point: 212 °F
Specific Gravity: 0.99-1.1
Percent Volitales: Nil
Packing Density: NOT DETERMINED
Vapor Pressure: NOT DETERMINED
Vapor Density: >AIR
pH Factor: 6-8
Solubility: SOLUBLE IN WATER

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)
None Known

Incompatible Materials
None known

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name
NON REGULATED

Hazard Class
NON REGULATED

DOT Identification Number
NONE

DOT Shipping Label
NOT ASSIGNED

MATERIAL SAFETY DATA SHEET

GLB Natural Clear

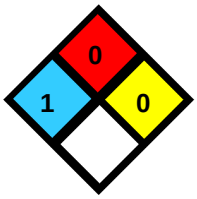
15. Regulatory Information

Canadian Regulatory Information

Class D, Div 2b - Poisonous or Infectious Material: other toxic effects

WHMIS - Canada (Pictograms)

NFPA



HMIS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

Disclaimer

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GLB

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MATERIAL SAFETY DATA SHEET

Leisure Time Foam Down

1. Product And Company Identification

Supplier
Leisure Time
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Manufacturer
Advantis Technologies, Inc.
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Supplier Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Manufacturer Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 09/01/2004

Product Name: Leisure Time Foam Down
Chemical Family: Silicone Emulsion
Chemical Formula: Proprietary
MSDS Number: 25

2. Composition/Information On Ingredients

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

3. Hazards Identification

Primary Routes(s) Of Entry
Skin Contact

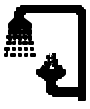
Eye Hazards
Causes eye irritation.

Skin Hazards
May cause skin irritation.

Ingestion Hazards
May be harmful if swallowed.

Inhalation Hazards
None normally associated with this product

First Aid (Pictograms)



4. First Aid Measures

Eye
In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes.

Skin
In case of contact, immediately flush skin with soap and plenty of water.

Leisure Time Foam Down

4. First Aid Measures - Continued

Ingestion
If swallowed, induce vomiting immediately. Call a physician or a poison control center immediately.

Inhalation
If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: n/a °F

Fire And Explosion Hazards
Burning causes oxides of carbon and silicone

Extinguishing Media
Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions
Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose. Flush spill area with water.

7. Handling And Storage

Handling And Storage Precautions
Keep out of reach of children. Store material in a cool and dry place.

Work/Hygienic Practices
Use safe chemical handling procedures suitable for the hazards presended by this material.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls
Local exhaust acceptable. Special exhaust not required

Eye/Face Protection
Safety glasses with side shields or goggles.

Skin Protection
Chemical-resistant gloves.

Respiratory Protection
None normally required.

9. Physical And Chemical Properties

Appearance
Creamy white liquid

Leisure Time Foam Down

9. Physical And Chemical Properties - Continued

Odor
Mild

Chemical Type: Mixture
Physical State: Liquid
Melting Point: n/a °F
Boiling Point: 212 °F
Specific Gravity: 1.0
Percent Volitales: NOT ESTABLISHED
Vapor Pressure: NOT ESTABLISHED
Vapor Density: NOT ESTABLISHED
pH Factor: 6-7
Solubility: SOLUBLE IN WATER
Viscosity: NOT ESTABLISHED
Evaporation Rate: NOT ESTABLISHED

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Incompatible Materials
Strong Oxidants

Hazardous Decomposition Products
Burning causes oxides of carbon and silicone

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name
NOT REGULATED

Hazard Class
NOT REGULATED

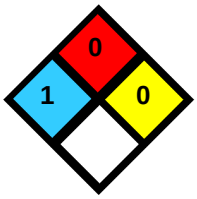
DOT Identification Number
NONE

15. Regulatory Information

No Data Available...

Leisure Time Foam Down

NFPA



HMIS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

16. Other Information

Revision/Preparer Information
MSDS Preparer: JHW3

Disclaimer

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Leisure Time

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Vanson HaloSource, Inc
Material Safety Data Sheet

Material Name: **SeaKlear® Natural Clarifier for Pools** **VHI-MSDS-02.13 Rev 03**
Telephone No**: 425-881-6464** Date Prepared: 04-28-05

24-HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300

SECTION I – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer's Name:	**Vanson HaloSource, Inc**.
Corporate Address:	**14716 NE 87th Street, Redmond, WA 98052**
Emergency Phone:	**800-424-9300 Chemtrec**
Manufacturer's Phone:	**(425) 881-6464**
Material Name:	**SeaKlear Natural Clarifier**
Chemical Name:	**Chitosan acetate**

SECTION II – COMPOSITION, INFORMATION ON INGREDIENTS

CAS NO.	INGREDIENT	EXPOSURE LIMITS
9012-76-4	Chitosan	NA
64-19-7	Acetic Acid	
	Water	

SECTION III – HAZARDS IDENTIFICATION

PRINCIPAL HEALTH HAZARDS, INCLUDING SIGNIFICANT ROUTES, EFFECTS, AND SYMPTOMS OF OVEREXPOSURE AND MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE MAY BE:

EYE: May be mildly irritating to eyes.

SKIN: Not hazardous to skin.

INHALATION: See first aid section below.

INGESTION: Not likely to be hazardous by ingestion.

CARCINOGENICITY: Not listed by National Toxicology Program (NTP) OSHA, or International Agency for Research on Cancer (IARC)

SECTION IV - FIRST AID

EYES: Remove contact lenses (if applicable), flush with water for 15 minutes. Call a physician.

SKIN: Cleansing the skin after exposure is advisable.

INHALATION: If large amounts of fumes are inhaled, remove to fresh air and consult a physician.

INGESTION: Consult a physician if necessary.

SECTION V - FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS: NA

EXTINGUISHING MEDIA: Does not burn. Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

FIREFIGHTING INSTRUCTIONS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

FLASH POINT: NA

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Wear suitable protective clothing. Dilute with water and hose down.

DISPOSAL INFORMATION: Material is 100% biodegradable, is nontoxic and can be disposed of in any approved manner. Treatment, storage, transportation and disposal must be in accordance with applicable Federal State/Provincial and local regulations.

DISPOSAL METHODS: Dilute with water and hose down.

SECTION VII - HANDLING & STORAGE

HANDLING & STORAGE PRECAUTIONS: 10-50°C recommended (will freeze @ ~3°C). Shelf life is indefinite but viscosity will decrease over time. The container should be kept covered to prevent contamination.

SECTION VIII - EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE): Good hygiene practices should be strictly followed. Before eating, drinking or smoking, wash face and hands thoroughly. Emergency showers and eyewash facilities should be accessible.

EYE PROTECTION: Safety glasses recommended.

SKIN PROTECTION: Rubber gloves recommended.

PROTECTIVE CLOTHING: NA

PROTECTIVE FOOTWEAR: NA

RESPIRATORY PROTECTION: NA

.

VENTILATION REQUIREMENTS: Generally adequate

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL FORM: Clear to pale yellow viscous liquid with a pungent vinegar odor.

BOILING POINT: 211°F

MELTING POINT: NA

pH: 3.0-4.5

SOLUBILITY IN WATER: Soluble.

SPECIFIC GRAVITY: 1.0-1.1 g/mL

SECTION X - STABILITY & REACTIVITY DATA

CHEMICAL STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLES: Strong oxidizing material and strong bases.

DECOMPOSITION PRODUCTS: Decomposition will not occur.

Material is bio-degradable.

SECTION XI - TOXICOLOGICAL INFORMATION

ORAL Rat $LD_{50\ (MG/KG)}$: NA
Ipr Rat, $LD_{50(MG/KG)}$: NA
SCU Mouse, $LD_{50(MG/KG)}$: NA
IV-Mouse, $LD_{50(MG/KG)}$: NA
DERMAL LD_{50} (rabbit): NA
EYE IRRITATION (rabbit): NA
SKIN IRRITATION (rabbit): NA

SECTION XII - ECOLOGICAL INFORMATION

Fish 96-hour LC_{50}	=	NA
Daphnia 48-hour LC_{50}	=	NA
Green algae 96-hour EC_{50}	=	NA
Fish Chronic Value (ChV)	=	NA
Daphnia ChV	=	NA
Algae ChV	=	NA

SECTION XIII - DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable federal, local and State environmental regulations. Material is 100% biodegradable, is nontoxic and can be disposed of in any approved manner.

SECTION XIV - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:	Chemicals, N.O.S. (non-regulated) (Domestic & International)
DOT Hazard Class:	Not regulated as a hazardous material
Packing Group:	NA
UN Number:	NA
Product RQ (lbs.):	NA
DOT Label:	NA
DOT Placard:	NA

SECTION XV - REGULATORY INFORMATION

MATERIAL IS REPORTED IN EPA TSCA INVENTORY LIST?: No

MATERIAL IS LISTED AS A CARCINOGEN/POTENTIAL CARCINOGEN IN FOLLOWING?: No

NTP ANNUAL REPORT: No **IARC GROUP I OR II:** No **OSHA 29CFR PART 1910 SUBPART Z:** No

DOES PRODUCT CONTAIN A TOXIC CHEMICAL SUBJECT TO SARA TITLE III SECTION 313 REPORTING: No

SARA TITLE III SECTION 311/312 CLASSIFICATIONS: None

SECTION XVI – OTHER INFORMATION

The above information is based upon information Vanson-HaloSource, Inc. believes to be reliable and is supplied for informational purposes only. Vanson-HaloSource, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to Vanson-HaloSource, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.

MATERIAL SAFETY DATA SHEET

GLB TLC

1. Product And Company Identification

Supplier
GLB
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770)521-5999
FAX Number: (770)521-5959
Web Site: www.poolspacare.com

Manufacturer
Advantis Technologies Inc.
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Supplier Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Manufacturer Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 04/01/2005

Product Name: GLB TLC
CAS Number: Not Established
Chemical Family: Acid Mixture
Chemical Formula: Proprietary
MSDS Number: 19
Product Code: Proprietary

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
Bis(2-hydroxyethyl)tallowammonium ethanoate	70750-46-8		
HYDROCHLORIC ACID	7647-01-0		
PHOSPHORICACID	7664-38-2		
SULFURIC ACID	7664-93-9		

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

Hazards Identification (Pictograms)

3. Hazards Identification

Primary Routes(s) Of Entry
Eye Contact, Skin Contact

Eye Hazards
Causes severe eye burns.

Skin Hazards
Causes severe skin burns.

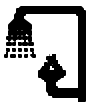
3. Hazards Identification - Continued

Ingestion Hazards
Corrosive to living tissue.

Inhalation Hazards
May cause severe allergic respiratory reaction.

Signs And Symptoms
Irritation of Eyes, Skin and Respiratory Passages

First Aid (Pictograms)



4. First Aid Measures

Eye
In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes.Call a physician or a poison control center immediately.

Skin
Rinse the affected area with tepid water for at least 15 minutes.Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion
DO NOT INDUCE VOMITING. Drink large amounts of water. Contact a physician or poison control.

Inhalation
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Call a physician or a poison control center immediately.

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: N/A °F

Extinguishing Media
Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions
Water can be used to cool and protect exposed material. Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Neutralize spill area with soda ash or lime. Flood with water. Use appropriate containers to avoid environmental contamination. Use appropriate personal protective equipment (PPE).

7. Handling And Storage

Handling And Storage Precautions
Keep out of reach of children. Do not store with alkalis.

7. Handling And Storage - Continued

Handling Precautions
Avoid contact with eyes. Avoid contact with skin and clothing. Wash thoroughly after handling.

Storage Precautions
Avoid contact with Alkalis, Amines, and Metals. Keep out of reach of children.

Work/Hygienic Practices
Use safe chemical handling procedures suitable for the hazards presended by this material.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls
Local exhaust acceptable. Special exhaust not required

Eye/Face Protection
Safety glasses with side shields or goggles recommended.

Skin Protection
Chemical-resistant gloves.

Respiratory Protection
None normally required.

Ingredient(s) - Exposure Limits

Bis(2-hydroxyethyl)tallowammonium ethanoate
- NOT ESTABLISHED

HYDROCHLORIC ACID
- ACGIH TLV-CEILING 5 ppm
- OSHA PEL-CEILING 5 ppm

PHOSPHORIC ACID
- ACGIH TLV-STEL 3 mg/m3
- ACGIH TLV-TWA 1 mg/m3
- OSHA PEL-TWA 1 mg/m3

SULFURIC ACID
- ACGIH TLV-STEL 3 mg/m3
- ACGIH TLV-TWA 1 mg/m3
- OSHA PEL-TWA 1 mg/m3

9. Physical And Chemical Properties

Appearance
Pale amber liquid

Odor
Mild

Chemical Type: Mixture
Physical State: Liquid
Melting Point: n/a °F
Boiling Point: 212 °F
Specific Gravity: 1.1-1.2
Percent Volitales: NOT DETERMINED

9. Physical And Chemical Properties - Continued

Odor - Continued
Packing Density: NOT DETERMINED
Vapor Pressure: NOT DETERMINED
Vapor Density: >1
pH Factor: 0-2
Solubility: Soluble in Water
Viscosity: NOT DETERMINED
Evaporation Rate: <1

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)
Avoid contact with strong Amines, Alkalis, and Metals. Heat can cause hydrogen chloride.

Incompatible Materials
Alkalis, Amines and Metals

Hazardous Decomposition Products
Hydrogen Chloride

11. Toxicological Information

Ingredient(s) - Carginogenicity
SULFURIC ACID
NTP - Listed On The National Toxicology Program
Listed In The IARC Monographs

12. Ecological Information

No Data Available...

13. Disposal Considerations

Refer to applicable federal, state, and local regulations prior to disposition of container and residual contents.

14. Transport Information

Proper Shipping Name
Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrochloric and Sulfuric Acids)

Hazard Class
8, PGII (<1L Consumer Commodity ORM-D)

DOT Identification Number
UN3264

DOT (Pictograms)

15. Regulatory Information

Ingredient(s) - U.S. Regulatory Information
HYDROCHLORIC ACID
SARA Title III - Section 313 Form "R"/TRI Reportable Chemical
SARA - Acute Health Hazard

15. Regulatory Information - Continued

Ingredient(s) - U.S. Regulatory Information - Continued

SULFURIC ACID
- SARA Title III - EPA Part 355 Extremely Hazardous Substance
- SARA Title III - Section 313 Form "R"/TRI Reportable Chemical
- SARA - Acute Health Hazard
- SARA - Chronic Health Hazard
- SARA - Fire Hazard
- SARA - Reactivity Hazard

Ingredient(s) - State Regulations

HYDROCHLORIC ACID
- New Jersey - Workplace Hazard
- New Jersey - Environmental Hazard
- New Jersey - Special Hazard
- New Jersey - TCPA Extraordinarily Hazardous Substance
- Pennsylvania - Workplace Hazard
- Pennsylvania - Environmental Hazard
- Massachusetts - Hazardous Substance
- New York City - Hazardous Substance

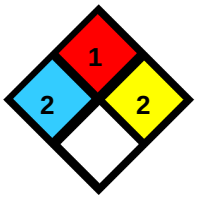
SULFURIC ACID
- New Jersey - Workplace Hazard
- New Jersey - Environmental Hazard
- New Jersey - Special Hazard
- Pennsylvania - Workplace Hazard
- Pennsylvania - Environmental Hazard
- California - CalARP Table 3 Regulated Substance
- Massachusetts - Hazardous Substance
- New York City - Hazardous Substance

Canadian Regulatory Information

Class D, Div 1a - Poisonous or Infectious Material: immediate and serious toxic effects
Class D, Div 2a - Poisonous or Infectious Material: other toxic effects
Class D, Div 2b - Poisonous or Infectious Material: other toxic effects
Class E - Corrosive Material

WHMIS - Canada (Pictograms)

NFPA



HMIS

HEALTH	3
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	C

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

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MATERIAL SAFETY DATA SHEET

Diatomaceous Earth

Section 01 - Chemical And Product And Company Information

Product Identifier ..... Diatomaceous earth; Celatom FP-4, FW-10, FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-60, FW-70, FW-80, or SP

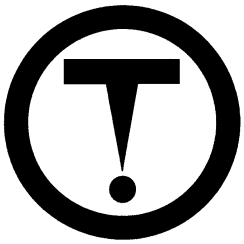
Product Use ..... Filter aid

Supplier Name..... ClearTech Industries Inc.
2303 Hanselman Avenue
Saskatoon, SK. Canada
S7L 5Z3

Prepared By..... ClearTech Industries Inc. Technical Department
Phone: (306)664-2522

Preparation Date..... August 18, 2005

24-Hour Emergency Phone..... 306-664-2522



Section 02 - Composition / Information on Ingredients

Hazardous Ingredients.....	Diatomaceous Earth, Flux-Calcined(Diatomite)	100%
	Crystalline silica(Cristobalite)	35-50%
CAS Number.....	Diatomaceous Earth, Flux-Calcined(Diatomite)	68855-54-9
	Crystalline silica(Cristobalite)	14464-46-1
Synonym (s).....	Aqua-cel; flux calcined diatomaceous earth	

Section 03 - Hazard Identification

Inhalation..... Upper respiratory irritant. May cause coughing or throat irritation. Breathing dust containing crystalline silica over a long period may cause lung damage.

Skin Contact / Absorption..... May cause slight irritation.

Eye Contact..... May cause slight irritation.

Ingestion..... May cause slight irritation. Not hazardous when digested.

Exposure Limits..... ACGIH/TLV: 0.05 mg/m^3 (cristobalite)
ACGIH/TLV: 0.10 mg/m^3 (silica, crystalline quartz), local regulated limits may vary.

Section 04 - First Aid Measures

Inhalation..... Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact / Absorption..... Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.

Eye Contact..... Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention

Ingestion..... No known health effects with short-term exposure. Drink water to reduce bulk and drying effects. Seek immediate medical attention if there is irritation.

Additional Information..... Not available

Section 05 - Fire Fighting

Conditions of Flammability..... Non-flammable

Means of Extinction..... Product does not burn. Use appropriate extinguishing media for material that is supplying the fuel to the fire.

Flash Point..... Not applicable

Auto-ignition Temperature..... Not applicable

Upper Flammable Limit ..... Not applicable

Lower Flammable Limit..…….. Not applicable

Hazardous Combustible Products... Not applicable

Special Fire Fighting Procedures..... Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Explosion Hazards……..... Not applicable

Section 06 - Accidental Release Measures

Leak / Spill.....…….. Diatomaceous earth is a non-toxic, non-biodegradable mineral. Waste generated from this product would only be considered hazardous when mixed with a substance that would be considered hazardous. Flush area with water to remove any residue.

Deactivating Materials..…….... None

Section 07 - Handling and Storage

Handling Procedures.....…….. Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Storage Requirements.....……..….. Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from incompatible materials.

Section 08 - Personal Protection and Exposure Controls

Protective Equipment

Eyes.…….…….... Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Respiratory……..... NIOSH approved respirators (standard 42CFR84, series N95) for protection against pneumoconiosis producing dusts recommended when dust is present.

Gloves…….…….... Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing with soap and water, dry thoroughly before reuse.

Clothing…….…….... Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing with soap and water, dry thoroughly before reuse.

Footwear……..... Impervious boots of chemically resistant material should be worn at all times

Engineering Controls

Ventilation Requirements……..... Mechanical ventilation (dilution or local exhaust), process or personnel enclosure, and control of process conditions. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other……..... Emergency shower and eyewash should be in close proximity.

Section 09 - Physical and Chemical Properties

Physical State.....……...……..... Solid

Odor and Appearance…..…….... Fine odourless white, buff, or pink powder

Odor Threshold...……..... Not available

Specific Gravity (Water=1)…….. 2.33

Vapor Pressure (mm Hg, 20C)…..….. Not available

Vapor Density (Air=1)..……..... Not available

Evaporation Rate.....……..…….. Not available

Boiling Point.....……..... Not available

Freeze/Melting Point...……..... Not available

pH.....…….. 9-10 (10% slurry)

Water/Oil Distribution Coefficient.... Not available

Bulk Density.....…….. Varies with grade

% Volatiles by Volume…….……..... 0%

Solubility in Water...……..... <2%

Molecular Formula.....…….... Not applicable

Molecular Weight..... Not applicable

Section 10 - Stability and Reactivity

Stability..... Stable under normal conditions.

Incompatibility..... Incompatible with hydrofluoric acid. Reaction with hydrofluoric acid will evolve silicon tetrafluoride.

Hazardous Products of Decomposition.. Not available

Polymerization..... Will not occur

Section 11 - Toxicological Information

Irritancy..... May cause dryness to mucous membranes.

Sensitization..... Not available

Chronic/Acute Effects..... Inhalation of dust in excess of OSHA/PEL over an extended number of years may cause silicosis, a progressive and sometimes fatal lung disease. Although silicosis is a non-cancerous lung disease, crystalline silica has been determined by the International Agency for Research on Cancer to be 'probably carcinogenic to humans.'

Synergistic Materials..... Not available

Animal Toxicity Data..... Not available

Carcinogenicity..... IARC: crystalline silica classed as 2A; probably a human carcinogen.

Reproductive Toxicity..... Not available

Teratogenicity..... Not available

Mutagenicity..... Not available

Section 12 - Ecological Information

Fish Toxicity..... Not available

Biodegradability..... Not available

Environmental Effects..... Insoluble mineral product, will not have an adverse affect on waterways.

Section 13 - Disposal Consideration

Waste Disposal.....Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 - Transportation Information

TDG Classification

Class..... Not regulated

Group..... Not regulated

PIN Number..... Not regulated

Other..... Secure containers (full and/or empty) with suitable hold down devises during shipment.

Section 15 - Regulatory Information

WHMIS Classification.....D2

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS

Section 16 - Other Information

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

ClearTech Industries Inc. - Locations

Corporate Head Office: 2302 Hanselman Avenue, Saskatoon, SK, S7L 5Z3
Phone: 306-664-2522
Fax: 306-665-6216

www.ClearTech.ca

Location	Address	Postal Code	Phone Number	Fax Number
Richmond BC	12431 Horseshoe way	V7A 4X6	604-272-4000	604-272-4596
Calgary AB	5516E - 40th St. S.E.	T2C 2A1	403-279-1096	403-236-0989
Edmonton AB	11750 - 180th Street	T5S 1N7	780-452-6000	780-452-4600
Saskatoon SK	2302 Hanselman Avenue	S7L 5Z3	306-933-0177	306-933-3282

Regina SK	555 Henderson Drive	S42 5X2	306-721-7737	306-721-8611
Winnipeg MB	340 Saulteaux Crescent	R3J 3T2	204-987-9777	204-987-9770
Mississauga ON	7480 Bath Road	L4T 1L2	905-612-0566	905-612-0575

24 Hour Emergency Number - All Locations - 306-664-2522

MATERIAL SAFETY DATA SHEET
PRODUCT : AQUA-PUR

SECTION 1: PRODUCT INFORMATION

PRODUCT:	AQUA-PUR
CODE:	22.02
MANUFACTURER:	DAUBOIS INC. 6155 boul. des Grandes Prairies St-Léonard (Québec) H1P 1A5
USE:	Filtration sand
Supplier:	Refer to manufacturer
WHMIS classification:	D2A

SECTION 2: HAZARDOUS INGREDIENTS

Hazardous Ingredients	# CAS	% (w/w)	Exposition limit (TLV) (mg/m^3)	LD50 (route, species)
Crystalline silica	14808-60-7	60-100	0.1	N / A

SECTION 3: PHYSICAL CHARACTERISTICS

Physical state:	Solid
Appearance and odor:	Beige sand, no odour.
Odor threshold:	Not applicable
Density:	2.65
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Evaporation rate:	Not applicable
Boiling point :	Not applicable
Freezing point:	Not applicable
pH (solution 10% in water) :	Not applicable
Water/oil distribution:	Not applicable

MATERIAL SAFETY DATA SHEET
PRODUCT : AQUA-PUR

SECTION 4: FIRE AND EXPLOSION HAZARDS

Flammability:	No
Under what conditions:	
Extinguishing methods:	Use extinguishing method according to surrounding material.
Flash point (method used):	Not applicable
Maximum flammability limits	
Lower:	Not applicable
Upper:	Not applicable
Auto-ignition temperature:	Not applicable
Dangerous combustion products:	None
Protect from mechanical impact:	No
Protect from static discharge:	No

SECTION 5: REACTIVITY

Chemical stability:	Yes
If not, under what conditions:	
Incompatibility with other material:	No
Dangerous decomposition products:	None
Polymerization risks:	No

SECTION 6: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY / CONTACT

Eyes:	May cause mechanical irritation.
Skin:	May cause skin dryness.
Inhalation:	Dust may cause respiratory system irritation and breathing difficulties. Prolonged exposition may result in silicosis.
Ingestion:	May cause gastro-intestinal problems.

Exposition limit:	Not available
Irritating properties:	May cause irritation if in contact with eyes, skin or respiratory system.
Sensitization:	Not available

MATERIAL SAFETY DATA SHEET
PRODUCT : AQUA-PUR

SECTION 6 (CONTINUED)

Carcinogenicity:	According to IARC, crystalline silica may be a cause for cancer.
Toxic effect on reproduction:	No
Teratogenicity:	No
Mutagenicity:	No
Product with synergistic effect:	None

SECTION 7: PREVENTIVE MEASURES

INDIVIDUAL EQUIPMENT PROTECTION

Gloves:	Use regular gloves.
Eyes:	Security glasses.
Respiratory equipment:	Wear a NIOSH approved dust mask.
Shoes:	Regular.
Clothing:	Clothes covering the skin.
Other:	No
Special technical mechanism:	Good ventilation is required.
Procedure in case of leaks:	Clean with a broom or with a vacuum cleaner avoiding dust formation.
Residue elimination:	Dispose according to municipal, provincial and federal laws on chemical waste.
Handling and equipment methods:	No special requirements.
Storage requirements:	No special requirements.
Special shipping instructions:	No special requirements.

SECTION 8: FIRST AID

Skin:	If irritated, clean with soap and rinse exposed areas. Consult a physician if necessary.
Eyes:	Rinse well with water for a minimum of 15 minutes. Consult a physician.

MATERIAL SAFETY DATA SHEET
PRODUCT : AQUA-PUR

SECTION 8: FIRST AID (CONTINUED)

Inhalation:	In case of overexposure, evacuate to fresh air. Consult a physician if necessary.
Ingestion:	Do not induce vomiting. If victim is conscious, give plenty of water. See a physician.

SECTION 9: PREPARATION INFORMATION

Prepared by:	Technical service
Telephone number:	(514) 328-1253 or 1-800-561-2664
Fax:	(514) 328-7694
Email:	info@daubois.com

* Information on this Safety Data Sheet corresponds to our degree of knowledge at the time of publication. There is no warranty on their accuracy and no responsibility towards their use.

Eli Lilly and Company
Material Safety Data Sheet

MSDS Index

Sodium Bicarbonate

Effective Date: 05-Aug-2004

Section 1 - Chemical Product and Company

Manufacturer:
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, IN 46285

Emergency Phone:
1-317-276-2000
CHEMTREC:
1-800-424-9300 (North America)
1-703-527-3887 (International)

Common Name: Sodium Bicarbonate

CAS Number(s): 144-55-8
EINECS Number: 2056-33-8
Chemical Name: Carbonic acid monosodium salt
Chemical Family: Inorganic salt
Chemical Formula: C H O3 . Na
Molecular Weight: 84.01
Synonym(s): Sodium bicarbonate tablets; Soludal; Meylon; Soda; Monosodium carbonate; Sodium hydrogen carbonate; Sodium acid carbonate; Bicarbonate of soda; Baking soda; Soda mint; NaHCO3; Sodium bicarbonate - cell culture grade; Sodium bicarbonate tablet mix
Lilly Serial Number(s): 237728
Lilly Item Code(s): QA049K; QA116D; QA192M; QA241X; QA281L; QA384W; QA476V; QD400T; QD472B; TA1260; TA1264; TA1265

See attached glossary for abbreviations.

Section 2 - Composition / Information on Ingredients

Ingredient	CAS
Sodium Bicarbonate	144-55-8

Exposure Guidelines:
Sodium bicarbonate - Exposure Guideline 1500 micrograms/m3 TWA for 12 hours, 2300 micrograms/m3 TWA for 8 hours. (Lilly-established guideline)
Dow Chemical Exposure Guideline 10 mg/m3 TWA.

Section 3 - Hazards Identification

Appearance: White crystalline powder or granules or compressed uncoated tablets
Physical State: Solid
Odor: Odorless

Emergency Overview

Emergency Overview Effective Date: 07-Aug-2002

Lilly Laboratory Labeling Codes:
Health 1 **Fire** 0 **Reactivity** 0

Primary Physical and Health Hazards: No Significant Health Hazards.

Caution Statement: No significant health hazards have been reported for Sodium Bicarbonate.

Routes of Entry: Inhalation and skin contact.

Effects of Overexposure: Material has low acute oral or inhalation toxicity. Material may be slightly irritating to the eyes, skin, and respiratory tract. Inhalation of dust may cause coughing.

Medical Conditions Aggravated by Exposure: None known.

Carcinogenicity: No carcinogenicity data found. Not listed by IARC, NTP, ACGIH, or OSHA.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water. Get medical attention.

Skin: Remove contaminated clothing and clean before reuse. Wash all exposed areas of skin with plenty of soap and water. Get medical attention if irritation develops.

Inhalation: Move individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, provide artificial respiration assistance (mouth-to-mouth) and call a physician immediately.

Ingestion: Call a physician or poison control center. No first aid procedures are normally required.

Section 5 - Fire Fighting Measures

Flash Point: Not applicable
UEL: Not applicable
LEL: Not applicable

Extinguishing Media: Use water, carbon dioxide, dry chemical, foam, or Halon.

Unusual Fire and Explosion Hazards: None known.

Hazardous Combustion Products: May emit toxic fumes when exposed to heat or fire.

Section 6 - Accidental Release Measures

Spills: Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions). Vacuum material with appropriate dust collection filter in place. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist material and remove by sweeping or wet wiping.

Section 7 - Handling and Storage

Lilly Warehouse Storage Category: 140X

Storage Conditions: Warehouse: 10 to 40 C (45 to 104 F). For certain items, other storage conditions may be required.

Section 8 - Exposure Controls / Personal Protection

See Section 2 for Exposure Guideline information.

Respiratory Protection: Use an approved respirator.

Eye Protection: Chemical goggles and/or face shield.

Ventilation: Laboratory fume hood or local exhaust ventilation.

Other Protective Equipment: Chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or face shield may not be required. Safety glasses are always required.

Section 9 - Physical and Chemical Properties

Boiling Point: Not applicable
Melting Point: Not applicable
Specific Gravity: 2.159
pH: 8.2 (1% solution)
Evaporation Rate: Not applicable
Water Solubility: 8.6 g/100 ml @ 20 C (68 F)
Vapor Density: Not applicable
Vapor Pressure: Not applicable

Section 10 - Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Incompatibility: May react with strong oxidizing agents (e.g., peroxides, permanganates, nitric acid, etc.) and strong acids.

Hazardous Decomposition: May emit toxic fumes when heated to decomposition.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

Acute Exposure

Oral:
Sodium bicarbonate - Rat, median lethal dose 4220 mg/kg.

Skin: No applicable information found.

Inhalation:
Sodium bicarbonate - Rat, median lethal concentration greater than 4740 mg/m3 (duration unspecified).

Skin Contact: No applicable information found.

Eye Contact:
Sodium bicarbonate - Rabbit, mild irritant

Chronic Exposure

Target Organ Effects: No applicable information found.

Reproduction:
Sodium bicarbonate - No teratogenic effects reported in rats or mice given large doses during pregnancy.

Sensitization: No applicable information found.

Mutagenicity:
Sodium bicarbonate - Negative in Ames assay.

Section 12 - Ecological Information

Ecotoxicity Data:
Sodium bicarbonate
Daphnia magna 48-hour median lethal concentration: 11.7 mmol/L to 26.3 mmol/L
Western mosquitofish 96-hour median lethal concentration: 5.6 g/L
Bluegill 96-hour median lethal concentration: 8.25 g/L

Rainbow trout median lethal concentration (duration unspecified): 7.7 g/L

Environmental Fate: No applicable information found.

Environmental Summary:
Sodium bicarbonate - This material is practically non-toxic to aquatic organisms. Material is soluble in water and may leach from soil into groundwater.

Section 13 - Disposal Considerations

Waste Disposal: Dispose of any cleanup materials and waste residue according to all applicable laws and regulations.

Section 14 - Transport Information

Regulatory Organizations:

DOT: Not Regulated

ICAO/IATA: Not Regulated

IMO: Not Regulated

Section 15 - Regulatory Information

Below is selected regulatory information chosen primarily for possible Eli Lilly and Company usage. This section is not a complete analysis or reference to all applicable regulatory information. Please consider all applicable laws and regulations for your country/state.

U.S. Regulations
Sodium bicarbonate
TSCA - Yes
CERCLA - Not on this list
SARA 302 - Not on this list
SARA 313 - Not on this list
OSHA Substance Specific - No

EU Regulations

EC Classification
Not assigned an overall EC classification.

Section 16 - Other Information

MSDS Sections Revised: Section 7.

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:
Eli Lilly and Company
Hazard Communication
317-433-7171

GLOSSARY:

ACGIH = American Conference of Governmental Industrial Hygienists
AIHA = American Industrial Hygiene Association
BEI = Biological Exposure Index
CAS Number = Chemical Abstract Service Registry Number
CERCLA = Comprehensive Environmental Response Compensation and Liability Act (of 1980)
CHAN = Chemical Hazard Alert Notice
CHEMTREC = Chemical Transportation Emergency Center
DOT = Department of Transportation
EC = European Community
EINECS = European Inventory of Existing Chemical Substances
ELINCS = European List of New Chemical Substances
EPA = Environmental Protection Agency
HEPA = High Efficiency Particulate Air (Filter)
IARC = International Agency for Research on Cancer
ICAO/IATA = International Civil Aviation Organization/International Air Transport Association
IEG = Lilly Interim Exposure Guideline
IMO = International Maritime Organization
Kow = Octanol/Water Partition Coefficient
LEG = Lilly Exposure Guideline
LEL = Lower Explosive Limit
MSDS = Material Safety Data Sheet
MSHA = Mine Safety and Health Administration
NA = Not Applicable, except in Section 14 where NA = North America
NADA = New Animal Drug Application
NAIF = No Applicable Information Found
NCI = National Cancer Institute
NIOSH = National Institute for Occupational Safety and Health
NOS = Not Otherwise Specified
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit (OSHA)
RCRA = Resource Conservation and Recovery Act
RQ = Reportable Quantity
RTECS = Registry of Toxic Effects of Chemical Substances

SARA = Superfund Amendments and Reauthorization Act
STEG = Lilly Short Term Exposure Guideline
STEL = Short Term Exposure Limit
TLV = Threshold Limit Value (ACGIH)
TPQ = Threshold Planning Quantity
TSCA = Toxic Substances Control Act
TWA = Time Weighted Average/8 Hours Unless Otherwise Noted
UEL = Upper Explosive Limit
UN = United Nations
WEEL = Workplace Environmental Exposure Level (AIHA)

BIO-LAB, INC.
PRODUCT SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: ANTHO-PURE Stingy Stick Chlorine Cartridges

Chemical Name: Trichloro-s-triazine trione

Chemical Family: Chlorinated Isocyanurate, Chlorine releasing compound

Formula: $C_3N_3O_3CL_3$ CAS No. 00087901

Listed on TSCA Inventory? Yes No N/A*

*Not applicable for any chemical mixtures or for substances regulated totally by FIFRA or FDA.

2. HAZARDOUS INGREDIENTS

	%	TLV (Units)
Trichloro-s-triazine trione	99	NA

3. EMERGENCY AND FIRST AID-HEALTH HAZARDS

Causes eye and skin damage. May be fatal if swallowed. Avoid breathing dust. For eye contact, flush with large volumes of water for 15 minutes. Contact a physician. For ingestion, feed bread soaked in milk followed by olive oil or cooking oil, contact a physician. If on skin, brush off excess material and flush with water for 15 minutes. If irritation occurs and persists, contact a physician.

4. DESCRIPTION AND PHYSICAL DATA

Physical form: Sticks

Specific gravity ($H_2O=1$)

Appearance (color and odor): White sticks, chlorine odor

Solubility in water: Slight, dissolves slowly in large quantities of water.

This information is given without a warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification. Before using any product, read its label.

5. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)
NA

Extinguishing Media:
Large quantities of water.

Special Fire Fighting Procedures:
Isolate container in open air if possible. Status Quo Chlorine Cartridges will not sustain combustion if outside heat source is removed. Self contained breathing apparatus may be needed.

Unusual Fire and Explosion Hazards: Combustion may cause evolution of hazardous gases that are toxic, and if concentrated can be explosive.

Hazardous Thermal Decomposition Products: Nitrogen Trichloride, carbon monoxide, Phosgene (400°F), other chlorine containing gases.

6. REACTIVITY DATA

Stability	Unstable	X	Conditions to Avoid General contamination of product with moisture, organic matter, etc. High temperatures.
	Stable		
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Incompatibility (Materials to avoid)
Avoid any forms of contamination, especially moisture, organic matter, inorganic reducing agents, solvents, ammonia or nitrogen bearing compounds.

7. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Pick up and place in clean, dry plastic or plastic lined containers for disposal. Isolate containers in open, well ventilated area. Flush small residues into a sewer with large quantities of water.

Waste Disposal Method Flush small amounts into sewer with large quantities of water. Large amounts should be transported to a permitted hazardous waste facility for proper disposal. Follow all state, local, and federal hazardous waste regulations. Contact BioLab for neutralization procedures.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type)
Dust Mask

Ventilation Required	Local exhaust Adequate	Special None
	Mechanical (General) Recommended	Other None
Protective Gloves Required		Eye Protection Required

Other Protective Equipment

9. SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing
Store in a cool, dry, well ventilated area away from other chemicals.

Other Precautions KEEP OUT OF REACH OF CHILDREN. Avoid breathing dust. Always open containers in a well ventilated area. Avoid breathing concentrated chlorine gas. Keep container closed when not in use.

Signature: Allen S. Dumas

Title: Regulatory Manager

MAY 1 9 1994

R B F INTERNATIONAL LTEE / LTD

780, Nobel street,
St-Jérôme, Québec, J7Z 7A3

Tel.: (450) 438-4416, 1-800-433-0590
Fax: (450) 438-0827

Material Safety Data Sheet

Section I - Identification

2009048 – 2009085 – 2009086 - RONA
3" TABLETS STABILIZED CHLORINE

MANUFACTURER / SUPPLIER:
R B F INTERNATIONAL
780, Nobel street
St-Jerome, Quebec, J7Z 7A3
Tel.: (450) 438-4416, 1-800-433-0590

EMERGENCY LINES: (CANUTEC): 613 - 996 - 6666
1 - 800 - 463 - 5060

Chemical Name: Trichloro-s-triazine-trione
Product Use: Destroys bacteria and algae in swimming pool water.

Hazard Rating	Designation	
4 Extreme	Health	2
3 High	Fire	0
2 Moderate	Reactivity	1
1 Slight	Personal Protection	D
0 None		

Section II - Hazardous Ingredients

Material	% By Weight	CAS Nr	Exposure Limits	LD_{50} (Oral-Rat)
Trichloro-s-triazine-trione	99-100	87-90-1	6375 ppm	10.000 mg/Kg

Section III - Physical Data

Appearance	White tablets.
Boiling Point	Decompose at 225^0C
Freezing Point	N/A
Odor	N/A
pH (1%)	2,3
Specific Gravity (Water = 1)	2.09
Vapor Density (Air = 1)	N/A
Vapor Pressure (mm Hg)	N/A
Evaporation Rate	N/A
Water Solubility	Soluble (1g / 100 ml)
% Volatile	N/A
Coefficient water/oil distribution	N/A
Odor Threshold	N/A

Section IV - Fire And Explosion Data

Flash Point (^{o}C , Test Method):	None
Auto-Ignition Temperature:	None
Flammable Limits In Air: (g/l):	LFL: None UFL: None
Extinguishing Media:	Dry Chemical (Sodium Bicarbonate), Foam, CO_2, Water
Special Fire Fighting Procedure:	Fight fires from a safe distance. DO NOT approach container because of danger of rupturing. Use water spray to cool containers exposed to fire.
Personal Protective Equipment:	Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.
Conditions of flammability:	N/A
Hazardous combustion products:	N/A
Explosion Data:	N/A
Sensitivity Impact:	N/A
Sensitivity to static discharge:	N/A
Mechanical Impact:	N/A

Section V - Health Hazard Information Of Product

Routes of Exposure and Acute Effects.

Inhalation:	May cause irritations.
Skin Contact:	May cause irritations.
Skin Absorption:	May cause irritations.
Eye Contact:	May cause stinging or burning.
Ingestion:	Poison. See a physician immediately.

Chronic Exposure.

Irritancy of product:	Irritating
Sensitizing Capacity:	N/A
Mutagenic effect:	N/A
Teratogenic effect:	N/A
Carcinogenic effect:	N/A
Reproductive toxicity:	N/A
Synergistic products:	N/A

Emergency and First Aid Procedure.

Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician immediately.
Skin:	In case of contact, remove contaminated clothing and flush skin thoroughly with soap and water. Wash clothing before reusing.
Inhalation:	If inhaled, remove to area of fresh air. If irritation persists, call a physician.
Ingestion:	If swallowed, call a physician immediately.

Section VI - Reactivity Data

Conditions Contributing to Instability:	This product is stable under normal conditions.
Incompatibility:	Avoid especially contact with oxidizing agents, excessive heat, strong alkaline products.
Decomposition Products:	Carbon Oxides (CO_2, CO), Nitrogene, Trichloroamine
Reactivity:	In contact with oxidizing agents, open flame, sparks or ignition sources, strong alkaline products, sodium and calcium hypochlorite, oil and grease.

Section VII - Spill Or Leak Procedures

Steps To Be Taken If Material Is Released Or Spilled

Cleanup personnel must wear proper protective equipment.
That is rubber gloves, face shield, safety goggles, safety shoes and protective clothing.
Never collect the spilled product in containers to be reused.
Neutralize with sodium thiosulfate and thoroughly wash area with water.

Waste Disposal Method.

Dispose according to Local, Provincial and Federal by-laws.

Section VIII - Special Protection Information.

Ventilation requirements

Local ventilation **absolutely necessary.**

Specific Personal Protective Information.

Skin Protection:	Chemical resistant gloves and other body protection (rubber apron, boots, body covering clothes) to minimize skin contact.
Eye Protection:	Chemical splash goggles and/or face shield.
Respiratory protection:	Use an approved self-contained breathing apparatus (MSHA/NIOSH or equivalent).
Other:	Eye wash station and safety shower in area. Do not wear contact lenses when working with this compound.

Section IX - Special Precaution.

Precaution To Be Taken In Handling.

Avoid inhalation of dust.
Avoid eye or skin contact. Do not take internally. Wash clothing before reuse.
Practice good personal hygiene.

Proper Storage, Handling and Disposal Requirements.

Store in tightly closed containers in a cool, dry, well-ventilated area.
Keep away from incompatible materials (oxidizing agents).
NO SMOKING in areas of storage, handling or use.

Section X - Transport And Regulatory Information.

TDG DESIGNATION:	**Trichloroisocyanuric acid dry**
UN NUMBER:	**2468**
TDG CLASSIFICATION:	**5.1**
WHIMS CLASSIFICATION:	**Schedule under the Pest Control Product Act**
PACKING GROUP	**II**

Material Safety Data Sheet:

Prepared By: **R. Ioanin**
Verified By: **G. Radu**

Date Issued: **April 01, 2005**

The information herein is given in good faith but no warranty, expressed or implied is made. The persons receiving this information are urged to make their own determination as to the information's suitability and completeness for their particular application.

Vanson HaloSource, Inc.
Material Safety Data Sheet

Material Name: **SeaKlear® Phosphate Remover** VHI-MSDS-02.36 REV 05
Telephone No**:** 425-881-6464 Date Prepared: 12-19-05

24-HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name:	Vanson HaloSource, Inc.
Corporate Address:	**14716 NE 87th Street, Redmond, WA 98052**
Manufacturer's Telephone:	**(425) 881-6464** (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone:	**800-424-9300 Chemtrec** (24 Hours)
Material/Trade/Product Name:	**Phosphate Remover**
Synonyms:	None
Chemical Name:	**Lanthanum Chloride, 7 hydrate (99.9%)**
CAS No.:	Not Applicable
Product Use:	Removes phosphates from water

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	HAZARDOUS INGREDIENT (S)	%	OSHA HAZARDOUS ?
20211-76-1	Lanthanum Chloride Hydrate	99.99	YES

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear to slightly yellow liquid.

Can cause irritation to exposed areas of body. Severity of injury depends largely on duration of exposure. Immediate action is necessary to limit severity of injury.

Hydrogen chloride will be produced from decomposition.

POTENTIAL HEALTH EFFECTS

EYE: May cause irritation.

SKIN: Possible skin irritant.

INHALATION: Should not be harmful if inhaled.

INGESTION: Possible irritant if swallowed.

CHRONIC EXPOSURE/CARCINOGENICITY: This substance not listed as a potential carcinogen by IARC.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Eye and/or skin irritation.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: None known.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting eyelids occasionally. Get medical attention at once.

SKIN CONTACT: Remove contaminated clothing and immediately wash exposed area for 15 minutes. Get medical attention if necessary.

INHALATION: Move to fresh air. If breathing has stopped administer artificial respiration. Get medical attention immediately.

INGESTION: Give large amounts of water. Do not induce vomiting. Get medical attention immediately.

NOTE TO PHYSICIANS: None

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not applicable
UPPER FLAMMABLE LIMIT: Not applicable
FLAMMABLITY CLASS (OSHA): Not applicable
AUTOIGNITION TEMPERATURE: Not applicable
LOWER FLAMMABLE LIMIT: Not applicable
FLAME PROPAGATION/BURNING RATE: Not applicable

UNIQUE FIRE PROPERTIES: HCl is produced.

HAZARDOUS COMBUSTION PRODUCTS: HCl is produced.

EXTINGUISHING MEDIA: Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

PROTECTION OF FIREFIGHTERS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See Section 8 (Personal Protective Equipment).

ENVIRONMENTAL PRECAUTIONS: None

METHODS FOR CLEANING UP: Contain large spills and pump to recover. Small spills can be mopped up and recovered.

SECTION 7: HANDLING AND STORAGE

SAFE *HANDLING* RECOMMENDATIONS

VENTILATION: Use general ventilation

FIRE PREVENTION: Not flammable

SPECIAL HANDLING REQUIREMENTS: Use appropriate PPE

SAFE *STORAGE* RECOMMENDATIONS

CONTAINMENT: Secondary containment is recommended.

STORAGE ROOM RECOMMENDATIONS: Store in cool, dry place. Keep container closed when not in use; keep out of the reach of children.

INCOMPATIBLE MATERIALS: None known.

STORAGE CONDITIONS: Store in cool, dry place. Keep container closed when not in use; keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: Safety glasses are recommended under normal conditions.

SKIN PROTECTION: Avoid contact with skin.

HAND PROTECTION: Chemical resistant gloves are recommended to minimize potential irritation from handling.

RESPIRATORY PROTECTION: None required where adequate ventilation conditions exist.

GOOD HYGEIENE/WORK PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

EXPOSURE GUIDELINES

PERMISSIBLE EXPOSURE LIMITS						
INGREDIENT CAS NO.	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Clear to slightly yellow
PHYSICAL FORM: Liquid
pH: Not applicable
VAPOR DENSITY: 4.10
MELTING POINT: Not known
SOLUBILITY IN WATER: Appreciable (more than 10%)
SHAPE: Liquid
ODOR: None
VAPOR PRESSURE: Not known
BOILING POINT: Not known
FREEZING POINT: Not known
SPECIFIC GRAVITY OR DENSITY: Not known

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: None known

MATERIALS TO AVOID (INCOMPATIBILITY): None known

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Chloride

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ORAL LD_{50} (rat): 4200

DERMAL LD_{50} (rat): 106

SCU, $LD_{50(MG/KG)}$ (mouse): 2424

IV $LD_{50\ (MG/KG)}$ (mouse): 18

SKIN IRRITATION (rabbit): Not available

SKIN SENSITIZATION (guinea pig): Not available

EYE IRRITATION (rabbit): Not available

SECTION 12: ECOLOGICAL INFORMATION

Fish 96-hour LC_{50}	=Not available
Daphnia 48-hour LC_{50}	=Not available
Green algae 96-hour EC_{50}	=Not available
Fish Chronic Value (ChV)	=Not available
Daphnia ChV	=Not available
Algae ChV	=Not available

SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

DOT Proper Shipping Name:	Not regulated
DOT Hazard Class:	Not regulated
Packing Group:	Not regulated
UN Number:	Not regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Not listed

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ
None	Not applicable	Not applicable

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
Yes	No	No	No	No

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
None	Not applicable	Not applicable

CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
None	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:
MSDS sections(s) changed since last revision of document: In an attempt to make Vanson-HaloSource's MSDSs more user friendly, as well as to keep current with all applicable regulations, all of the sections in this MSDS have had slight to significant changes since the last revision.

DISCLAIMER:
****
The above information is based upon information Vanson-HaloSource Inc. believes to be reliable and is supplied for informational purposes only. Vanson-HaloSource Inc. disclaims any liability for damage which results from the use of

the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to Vanson-HaloSource Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.

****

MSDS PREPARED BY: Jeremy Heath, EH&S Specialist

9005 <--- PRODUCT CODE #

MATERIAL SAFETY DATA SHEET U.S. DEPT. OF LABOR

COMPLIES WITH USDL SAFETY AND HEALTH REGULATIONS (29 CFR 1910.1200)

****

MANUFACTURER : PURE CORPORATION
PO BOX 501070
INDIANAPOLIS, IN 46250

PRODUCT IDENTIFICATION:
PRODUCT NAME: "2001" MILDEW ALGAE STAIN REMOVER

EMERGENCY NUMBER : 317-578-9221

DATE: 7/19/91

****

SECTION I HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	%(opt'l)	ACGIH TLV
1. SODIUM HYDROXIDE	1310-73-2	1.	1. 2 MG/M3
2. SODIUM HYPOCHLORITE	7681-52-9	2.	2. N/E
3. OXYBISLDODECYLBENZENESULFONATE	70146-13-3	3.	3. N/EG/M3
4. DECYL(SULFOPHENOXY)BENZENE SULFONATE	36445-71-3	4.	4. N/E
5.		5.	5.
6. INERTS		6. CONSTITUENTS CONTAINED IN BASIC RAW MATERIALS WHICH MAY INCLUDE WATER. TLV IS > 1000	

****

SECTION II PHYSICAL DATA

BOILING POINT F : 110 DEGREES F
VAPOR PRESSURE \@25 DEGREES C : NOT ESTABLISHED
VAPOR DENSITY (AIR=1) : NOT ESTABLISHED
SOLUBILITY IN WATER : COMPLETE
SPECIFIC GRAVITY : 1.10
EVAPORATION RATE (ETHER=1) : >1
APPEARANCE AND ODOR : CLEAR YELLOW LIQUID WITH CHARACTERISTIC AROMA

****

SECTION III FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED) : NOT FLAMMABLE
FLAMMABLE LIMITS : N/A
EXTINGUISHING MEDIA : N/A
SPECIAL FIREFIGHTING PROCEDURES : AVOID FUMES. WEAR A SCBA.
UNUSUAL FIRE AND EXPLOSION HAZARDS : HEAT MAY CAUSE SWELLING AND RUPTURING. POSSIBLE VIGOROUS REACTION WITH ORGANICS OR OXIDIZERS.

****

SECTION IV REACTIVITY DATA

STABILITY DATA: STABLE
INCOMPATIBILITY: HEAVY METALS. REDUCING AGENTS,ORGANICS,ETHER,AMMONIA,ACIDS. (MAY NOT BE COMPATIBLE WITH OTHER CLEANERS).
HAZARDS DECOMPOSITION PRODUCTS: CHLORINE GAS,HYPOCHLOROUS CLOUD,HYDROGEN CHLORIDE UPON CONTACT WITH ACIDS, OXIDIZERS, OR AMMONIA.
HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

****

SECTION V HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE : IRRITATION OF THE EYES, SKIN, AND MUCOUS MEMBRANES. SEVERE LUNG BURNS AND POSSIBLE DEATH IF MIXED WITH INCOMPATIBLE MATERIALS.

EMERGENCY FIRST AID PROCEDURES:
SKIN: FLUSH WITH WATER. REMOVE CONTAMINATED CLOTHING
EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CALL DOCTOR.
INGESTION: DRINK LARGE VOLUMES OF WATER OR MILK. CONTACT A PHYSICIAN IMMEDIATELY.
INHALATION: REMOVE VICTIM FROM AREA. SEEK IMMEDIATE MEDICAL ATTENTION. VENTILATE AREA.

****

SECTION VI SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : NIOSH APPORED RESPIRATOR IN ENCLOSED AREAS
VENTILATION : LOCAL EXHUAST RECOMMENDED.
PROTECTIVE GLOVES : RUBBER OR PLASTIC
EYE PROTECTION : NONE REQUIRED BUT RECOMMENDED
OTHER PROTECTIVE EQUIPMENT: NONE

****

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

SMALL SPILLS: DYKE PRODUCT.WIPE UP PRODUCT. RINSE AREA WITH WATER DOWN DRAIN. WEAR BOOTS AND RESPIRATOR. REDUCE WITH BISULFITES OR FERROUS SALTS.
LARGE SPILLS: STOP LEAK AT SOURCE AND COLLECT INTO A SUITABLE CONTAINER. THEN TREAT AS A SMALL SPILL.

FOLLOW STATE AND LOCAL REGULATIONS FOR DISPOSAL OF LARGE NON-RECLAIMABLE SPILLS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: ALWAYS STORE UNUSED PORTION IN ORIGINAL CONTAINER WITH CAP SECURE. AVOID TEMPERATURE EXTREMES.

OTHER PRECAUTIONS: AS WITH ALL CHEMICALS, USE WITH DUE CARE ACCORDING TO LABEL INSTRUCTIONS AND PRECAUTIONS

MATERIAL SAFETY DATA SHEET

GLB Oxy-Brite

1. Product And Company Identification

Supplier
GLB
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770)521-5999
FAX Number: (770)521-5959
Web Site: www.poolspacare.com

Manufacturer
Advantis Technologies, Inc.
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Supplier Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Manufacturer Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 04/16/2007

Product Name: GLB Oxy-Brite
Chemical Name: Potassium Monopersulfate
CAS Number: Not Established
Chemical Family: Peroxygen Salt
Chemical Formula: Proprietary
MSDS Number: 314

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
MAGNESIUM CARBONATE	546-93-0		
POTASSIUM BISULFATE	7646-93-7		
POTASSIUM PEROXYDISULFATE	7727-21-1		
POTASSIUM PEROXYMONOSULFATE	10058-23-8		
POTASSIUM SULFATE	7778-80-5		
SODIUM TETRABORATE PENTAHYDRATE	12179-04-3		

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

EMERGENCY OVERVIEW

This product is a skin and eye corrosive, and a nose and throat irritant.

Hazards Identification (Pictograms)

3. Hazards Identification

Primary Routes(s) Of Entry
Skin Contact

3. Hazards Identification - Continued

Eye Hazards

Corrosive to eyes. Eye contact may cause corrosion or ulceration. Severe eye damage may result if not immediately treated.

Skin Hazards

Corrosive to skin. Skin contact with aqueous solutions or the dry powder upon contact with moisture or perspiration may cause skin burns or ulceration; temporary body hair loss may occur in contacted areas. Skin contact with the product may cause allergic skin reactions in sensitive individuals.

Ingestion Hazards

May cause irritation of the throat. Ingestion may cause inflammation and damage to the lining of the stomach, resulting in bleeding. Ingestion may cause gastritis possibly progressing to necrosis or hemorrhage.

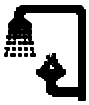
Inhalation Hazards

Inhalation may cause nose bleeds and irritation of the upper respiratory passages with coughing and discomfort.

Signs And Symptoms

Irritant to eyes and skin due to oxidizing properties

First Aid (Pictograms)



4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician or a poison control center immediately.

Skin

Wash affected areas with soap and water. Call a physician. Wash clothing before reuse.

Ingestion

DO NOT INDUCE VOMITING. Drink large amounts of water. Call a physician or a poison control center immediately.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult Physician

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: N/A °F

Fire And Explosion Hazards

Improper storage of large masses of this product can trap heat and lead to ignition of combustibles. Grinding or intensive mixing may cause decomposition with liberation of heat and oxygen; ignition of oxidizable material if present may occur.

Extinguishing Media

In case of fire, soak (flood) with water.

5. Fire Fighting Measures - Continued

Fire Fighting Instructions

Will release oxygen when heated, intensifying a fire. Firefighters should wear self-contained breathing apparatus and full protective gear.

GRINDING OR INTENSIVE MIXING MAY GENERATE SUFFICIENT HEAT TO FUSE PRODUCT AND CAUSE IGNITION OF OXIDIZABLE MATERIAL PRESENT.

6. Accidental Release Measures

Clean up spill immediately. Flush spill area with water in compliance with State and Federal Regulations.

Handling & Storage (Pictograms)

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Store material in a cool and dry place.

Handling Precautions

Avoid breathing dust or vapor. Avoid contact with skin and clothing. Avoid contact with eyes. Wash thoroughly after handling. Wash clothing after use.

Storage Precautions

Store in a cool dry place. Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Work/Hygienic Practices

Use safe chemical handling procedures suitable for the hazards presended by this material.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls

Local exhaust acceptable. Special exhaust not required

Eye/Face Protection

Safety glasses with side shields or goggles recommended.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

The level of respiratory protection needed should be based on the required protection factor after evaluating chemical exposures using appropriate industrial hygiene monitoring and/or OSHA guidance.

9. Physical And Chemical Properties

Appearance

Blue granules or powder

9. Physical And Chemical Properties - Continued

Odor
None

Chemical Type: Mixture
Physical State: Solid
Melting Point: DECOMPOSES °F
Boiling Point: DECOMPOSES °F
Specific Gravity: 1.2
Molecular Weight: PROPRIETARY
Percent Volitales: NIL
Vapor Pressure: NIL
Vapor Density: NOT VOLATILE
Solubility: >25% AT 20C (68F)
Evaporation Rate: NOT VOLATILE
Corrosive, Oxidizer

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)
The mixture of this product with compounds containing halides or active halogens (bromine, chlorine, iodine) can cause the release of the respective halogen gas, if moisture is present. Avoid these gases (bromine and chlorine) because they are very irritating to eyes and lungs even at low concentrations. Never mix concentrated product with dry or concentrated bromine containing chemicals, such as bromates, bromides, or any concentrated bromine pool chemicals. Mixing this prodcut with dry or concentrated chlorine containing chemicals, such as hypochlorites, sodium dichloroisocyanurate, sodium triisocyanurate or with sodium chloride, may cause the release of chlorine gas.

Mixing with cyanides can cause release of hydrogen cyanide gas. Mixing with heavy metal salts such as those of cobalt, nickel, copper, or manganese can cause decomposition with release of oxygen and heat.

Incompatible Materials
Alkalis, Heavy Metals cause evolution of Oxygen gas. Halogens and cyanides can cause release of gases of these compounds.

Hazardous Decomposition Products
Oxygen

11. Toxicological Information

Acute Studies
This product is a severe skin and eye irritant, but is not a skin sensitizer in animals.

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name
CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Monopersulfate Compound)

MATERIAL SAFETY DATA SHEET

GLB Oxy-Brite

14. Transport Information - Continued

Proper Shipping Name - Continued
Hazard Class
8, PGII (<=1kg Consumer Commodity ORM-D)

DOT Identification Number
UN3260

DOT (Pictograms)

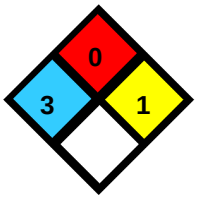
15. Regulatory Information

SARA Hazard Classes
Acute Health Hazard

Canadian Regulatory Information
Class D, Div 2b - Toxic Material. Skin or Eye Irritant
Class E - Corrosive Material
Class C - Oxidizing Material

WHMIS - Canada (Pictograms)

NFPA



HMIS

HEALTH	3
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	E

16. Other Information

Revision/Preparer Information
MSDS Preparer: JHW
This MSDS Superceeds A Previous MSDS Dated: 10/13/2003

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitablility of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

GLB

Printed Using MSDS Generator™ 2000

MATERIAL SAFETY DATA SHEET

GLB Algimycin 2000

1. Product And Company Identification

Supplier
GLB
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770)521-5999
FAX Number: (770)521-5959
Web Site: www.poolspacare.com

Manufacturer
Advantis Technologies, Inc.
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004 United States

Telephone Number: (770) 521-5999
FAX Number: (770) 521-5959
Web Site: www.poolspacare.com

Supplier Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Manufacturer Emergency Contacts & Phone Number
CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 09/13/2004

Product Name: GLB Algimycin 2000
Chemical Name: Poly(oxyethylene(Dimethyliminio)Ethylene(Dimethyliminio)Ethylene Dichloride)
CAS Number: 31075-24-8
Chemical Family: Polymeric Quaternary Ammonium Compound
Chemical Formula: Proprietary Mixture
MSDS Number: 53

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
Poly(oxyethylene(Dimethyliminio)Ethylene(Dimethyliminio)Ethylene Dichloride)	31075-24-8		
Polydimethyldiallyammonium Chloride	26062-79-3		

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).

3. Hazards Identification

Primary Routes(s) Of Entry
Skin Contact, Eye Contact, Inhalation

Eye Hazards
Causes eye irritation.

Skin Hazards
Causes skin irritation.

Ingestion Hazards
Harmful if swallowed.

Inhalation Hazards
Causes respiratory tract irritation.

Signs And Symptoms
Irritation of Eyes and Respiratory Passages

GLB Algimycin 2000

3. Hazards Identification - Continued

Conditions Aggravated By Exposure
None Known

First Aid (Pictograms)

4. First Aid Measures

Eye
Remove the victim from the source of contamination or exposure to nearest eyewash or other source of clean water.

Skin
Rinse the affected area with tepid water for at least 15 minutes.

Ingestion
Call a physician or a poison control center immediately. If victim is fully conscious, give one or two cups of water or milk to drink.If swallowed, do not induce vomiting unless directed to do so by medical personnel.

Inhalation
If inhaled, remove to fresh air.If breathing is difficult, give oxygen.

Note To Physician
No Specific Antidote is known. Treat Symptoms.
Evaluate Principal Route of Entry

Fire Fighting (Pictograms)

5. Fire Fighting Measures

Flash Point: N/A °F

Extinguishing Media
Use the appropriate extinguishing media for the surrounding fire.

6. Accidental Release Measures

Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Avoid release to the environment. Do not flush to sewer.

Handling & Storage (Pictograms)

7. Handling And Storage

Handling And Storage Precautions
Keep out of reach of children. Wash thoroughly after handling.

Handling Precautions
Avoid contact with eyes. Wash hands before eating, drinking, or smoking.

Storage Precautions
Store in a cool dry place. Keep out of reach of children.

GLB Algimycin 2000

7. Handling And Storage - Continued

Work/Hygienic Practices

Use safe chemical handling procedures suitable for the hazards presented by this material.
Do not contaminate Water Food or Feed by storage or cleaning of equipment.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Engineering Controls

Local exhaust acceptable. Special exhaust not required

Eye/Face Protection

Safety glasses with side shields or goggles recommended.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

General room ventilation is normally adequate.

9. Physical And Chemical Properties

Appearance

Tan colored liquid

Odor

Moderate

Chemical Type: Mixture
Physical State: Liquid
Boiling Point: 212 °F
Specific Gravity: 1.0-1.2
Percent Volitales: Not established
Vapor Pressure: Not established
pH Factor: 6-8
Solubility: soluble
Viscosity: Not established
Evaporation Rate: Not established

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

11. Toxicological Information

Acute Oral Effects

Oral LD50 (rat): 2.5 g/kg

12. Ecological Information

Acute Toxicity - Fish And Invertebrates

This product is Toxic to fish. Do not discharge into lakes streams or ponds.

GLB Algimycin 2000

13. Disposal Considerations

Refer to applicable local, state and federal regulations as well as industry standards.

14. Transport Information

Proper Shipping Name

Environmentally Hazardous Substance, Liquid, n.o.s.
(Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]), Marine Pollutant

Hazard Class

9, PGIII

DOT Identification Number

UN3082

Additional Shipping Paper Description

North American Emergency Response Guide No. 171
Not regulated by DOT for ground or air shipments [see exception for marine pollutants 49CFR171.4(c)].

15. Regulatory Information

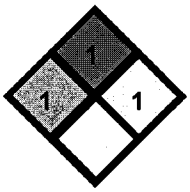
State Regulations

California Proposition 65: This product had been reviewed for Prop 65 components and the following applies: Warning: This product may contain substance(s) which are known to the State of California to cause cancer or reproductive harm. (Contents may contain trace levels of (<10 ppm) of Dichloroetheyl ether, 1,4-Dioxane and (<20 ppb) N-nitrosodimethylamine). (Trace contaminants from Poly[oxyethelene(diamethlyimino)ethelene(diethylimino) ethylene dichloride]

Canadian Regulatory Information

Class D, Div 2b- Poisonous or Infectious Material: other toxic effects

NFPA



HMIS

HEALTH	1
FLAMMABILITY	1
REACTIVITY	1
PERSONAL PROTECTION	B

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW3
This MSDS Superceeds A Previous MSDS Dated: 07/26/2000

Disclaimer

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GLB

Vanson HaloSource, Inc
Material Safety Data Sheet

Material Name: **SEA-KLEAR 3-Month Algaecide** **VHI-MSDS-02-16-REV-2**
Telephone No**: 425-881-6464** Date Prepared: 12-23-02

24-HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300

SECTION I – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer's Name:	**Vanson HaloSource, Inc**.
Corporate Address:	**14716 NE 87th Street, Redmond, WA 98052**
Emergency Phone:	**800-424-9300 Chemtrec**
Manufacturer's Phone:	**(425) 881-6464**
Material Name:	**SEA-KLEAR 3-Month Algaecide**
Chemical Name:	**Copper (11) Triethanolamine**

SECTION II – COMPOSITION, INFORMATION ON INGREDIENTS

CAS NO.	INGREDIENT	EXPOSURE LIMITS
	Copper (11) Triethanolamine	OSHA PEL: N/A OSHA STEL: N/A ACGIH TLV: N/A

SECTION III – HAZARDS IDENTIFICATION

PRINCIPAL HEALTH HAZARDS, INCLUDING SIGNIFICANT ROUTES, EFFECTS, AND SYMPTOMS OF OVEREXPOSURE AND MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE MAY BE:

EYE: Possible eye irritant.
SKIN: Not known to be a skin irritant.
INHALATION: NA
INGESTION: Low degree of toxicity by ingestion.
CARCINOGENICITY: Not listed by National Toxicology Program (NTP) OSHA, or International Agency for Research on Cancer (IARC)

SECTION IV - FIRST AID

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Contact a physician.

SKIN: If skin contact occurs, wash thoroughly with soap and water.

INHALATION: Use approved respirator for mists.

INGESTION: Contact a physician.

SECTION V - FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS: NA

EXTINGUISHING MEDIA: Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

FIREFIGHTING INSTRUCTIONS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

FLASH POINT: Not applicable.

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Vacuum collect in containers for disposal. Flush area with water.

DISPOSAL INFORMATION: Contaminated material or waste should be placed in suitable receptacles and removed to chemical waste storage area for disposal in accordance with relevant federal, state, and local regulations.

DISPOSAL METHODS: In accordance with local, State and federal regulations. Flush residue with water.

SECTION VII - HANDLING & STORAGE

HANDLING & STORAGE PRECAUTIONS: Store below 40 °C/104° F in cool dry area in well closed containers. Exercise normal handling precautions for liquids. Protect from freezing. Keep away from metals.

SECTION VIII - EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE): Good hygiene practices should be strictly followed. Before eating, drinking or smoking, wash face and hands thoroughly. For operations where eye or face contact may occur, wear chemical goggles or face shield. Showers and eyewash facilities should be accessible.

EYE PROTECTION: eye protection recommended.

SKIN PROTECTION: gloves.

PROTECTIVE CLOTHING: NA

PROTECTIVE FOOTWEAR: NA

RESPIRATORY PROTECTION: NA

.

VENTILATION REQUIREMENTS: Generally adequate

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL FORM: Odorless Blue liquid.

BOILING POINT: Same as water.

MELTING POINT: NA

pH: unknown

SOLUBILITY IN WATER: Miscible in water

SPECIFIC GRAVITY: 1.18-1.21
.

SECTION X - STABILITY & REACTIVITY DATA

CHEMICAL STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLES: NA

DECOMPOSITION PRODUCTS: NA

SECTION XI - TOXICOLOGICAL INFORMATION

ORAL Rat $LD_{50\ (MG/KG)}$: 4,500 mg/kg
IV-Mouse, $LD_{50(MG/KG)}$: NA
DERMAL LD_{50} (rabbit): 8,000 mg/kg
EYE IRRITATION (rabbit): NA
SKIN IRRITATION (rabbit): NA

SECTION XII - ECOLOGICAL INFORMATION

Fish 96-hour LC_{50}	=	5.4 ppm @ 96 hours
Daphnia 48-hour LC_{50}	=	NA
Green algae 96-hour EC_{50}	=	NA

Fish Chronic Value (ChV)	=	NA
Daphnia ChV	=	NA
Algae ChV	=	NA

GENERAL:

SECTION XIII - DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable federal, local and State environmental regulations.

SECTION XIV - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:	None
DOT Hazard Class:	Not regulated as a hazardous material
Packing Group:	Not determined
UN Number:	Not determined
Product RQ (lbs.):	No limit
DOT Label:	Miscellaneous
DOT Placard:	Not required
Freight Class (package):	Not determined

SECTION XV - REGULATORY INFORMATION

MATERIAL IS REPORTED IN EPA TSCA INVENTORY LIST?: No

MATERIAL IS LISTED AS A CARCINOGEN/POTENTIAL CARCINOGEN IN FOLLOWING?: No

NTP ANNUAL REPORT: No **IARC GROUP I OR II:** No **OSHA 29CFR PART 1910 SUBPART Z:** No

DOES PRODUCT CONTAIN A TOXIC CHEMICAL SUBJECT TO SARA TITLE III SECTION 313 REPORTING: No

SARA TITLE III SECTION 311/312 CLASSIFICATIONS: None

SECTION XVI – OTHER INFORMATION

The above information is based upon information Vanson-HaloSource, Inc. believes to be reliable and is supplied for informational purposes only. Vanson-HaloSource, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use

for any specific purpose even if that purpose is known to Vanson-HaloSource, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.

Vanson HaloSource, Inc.
Material Safety Data Sheet

Material Name: **SeaKlear® Phosphate Remover** VHI-MSDS-02.36 REV 05
Telephone No**:** 425-881-6464 Date Prepared: 12-19-05

24-HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name:	Vanson HaloSource, Inc.
Corporate Address:	**14716 NE 87th Street, Redmond, WA 98052**
Manufacturer's Telephone:	**(425) 881-6464** (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone:	**800-424-9300 Chemtrec** (24 Hours)
Material/Trade/Product Name:	**Phosphate Remover**
Synonyms:	None
Chemical Name:	**Lanthanum Chloride, 7 hydrate (99.9%)**
CAS No.:	Not Applicable
Product Use:	Removes phosphates from water

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	HAZARDOUS INGREDIENT (S)	%	OSHA HAZARDOUS ?
20211-76-1	Lanthanum Chloride Hydrate	99.99	YES

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear to slightly yellow liquid.

Can cause irritation to exposed areas of body. Severity of injury depends largely on duration of exposure. Immediate action is necessary to limit severity of injury.

Hydrogen chloride will be produced from decomposition.

POTENTIAL HEALTH EFFECTS

EYE: May cause irritation.

SKIN: Possible skin irritant.

INHALATION: Should not be harmful if inhaled.

INGESTION: Possible irritant if swallowed.

CHRONIC EXPOSURE/CARCINOGENICITY: This substance not listed as a potential carcinogen by IARC.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Eye and/or skin irritation.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: None known.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting eyelids occasionally. Get medical attention at once.

SKIN CONTACT: Remove contaminated clothing and immediately wash exposed area for 15 minutes. Get medical attention if necessary.

INHALATION: Move to fresh air. If breathing has stopped administer artificial respiration. Get medical attention immediately.

INGESTION: Give large amounts of water. Do not induce vomiting. Get medical attention immediately.

NOTE TO PHYSICIANS: None

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not applicable
UPPER FLAMMABLE LIMIT: Not applicable
FLAMMABLITY CLASS (OSHA): Not applicable
AUTOIGNITION TEMPERATURE: Not applicable
LOWER FLAMMABLE LIMIT: Not applicable
FLAME PROPAGATION/BURNING RATE: Not applicable

UNIQUE FIRE PROPERTIES: HCl is produced.

HAZARDOUS COMBUSTION PRODUCTS: HCl is produced.

EXTINGUISHING MEDIA: Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

PROTECTION OF FIREFIGHTERS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See Section 8 (Personal Protective Equipment).

ENVIRONMENTAL PRECAUTIONS: None

METHODS FOR CLEANING UP: Contain large spills and pump to recover. Small spills can be mopped up and recovered.

SECTION 7: HANDLING AND STORAGE

SAFE *HANDLING* RECOMMENDATIONS

VENTILATION: Use general ventilation

FIRE PREVENTION: Not flammable

SPECIAL HANDLING REQUIREMENTS: Use appropriate PPE

SAFE *STORAGE* RECOMMENDATIONS

CONTAINMENT: Secondary containment is recommended.

STORAGE ROOM RECOMMENDATIONS: Store in cool, dry place. Keep container closed when not in use; keep out of the reach of children.

INCOMPATIBLE MATERIALS: None known.

STORAGE CONDITIONS: Store in cool, dry place. Keep container closed when not in use; keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: Safety glasses are recommended under normal conditions.

SKIN PROTECTION: Avoid contact with skin.

HAND PROTECTION: Chemical resistant gloves are recommended to minimize potential irritation from handling.

RESPIRATORY PROTECTION: None required where adequate ventilation conditions exist.

GOOD HYGEIENE/WORK PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

EXPOSURE GUIDELINES

PERMISSIBLE EXPOSURE LIMITS						
INGREDIENT CAS NO.	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Clear to slightly yellow
PHYSICAL FORM: Liquid
pH: Not applicable
VAPOR DENSITY: 4.10
MELTING POINT: Not known
SOLUBILITY IN WATER: Appreciable (more than 10%)
SHAPE: Liquid
ODOR: None
VAPOR PRESSURE: Not known
BOILING POINT: Not known
FREEZING POINT: Not known
SPECIFIC GRAVITY OR DENSITY: Not known

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: None known

MATERIALS TO AVOID (INCOMPATIBILITY): None known

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Chloride

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ORAL LD_{50} (rat): 4200

DERMAL LD_{50} (rat): 106

SCU, $LD_{50(MG/KG)}$ (mouse): 2424

IV $LD_{50\ (MG/KG)}$ (mouse): 18

SKIN IRRITATION (rabbit): Not available

SKIN SENSITIZATION (guinea pig): Not available

EYE IRRITATION (rabbit): Not available

SECTION 12: ECOLOGICAL INFORMATION

Fish 96-hour LC_{50}	=Not available
Daphnia 48-hour LC_{50}	=Not available
Green algae 96-hour EC_{50}	=Not available
Fish Chronic Value (ChV)	=Not available
Daphnia ChV	=Not available
Algae ChV	=Not available

SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

DOT Proper Shipping Name:	Not regulated
DOT Hazard Class:	Not regulated
Packing Group:	Not regulated
UN Number:	Not regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Not listed

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ
None	Not applicable	Not applicable

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
Yes	No	No	No	No

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
None	Not applicable	Not applicable

CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
None	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:
MSDS sections(s) changed since last revision of document: In an attempt to make Vanson-HaloSource's MSDSs more user friendly, as well as to keep current with all applicable regulations, all of the sections in this MSDS have had slight to significant changes since the last revision.

DISCLAIMER:
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The above information is based upon information Vanson-HaloSource Inc. believes to be reliable and is supplied for informational purposes only. Vanson-HaloSource Inc. disclaims any liability for damage which results from the use of

the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to Vanson-HaloSource Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.

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MSDS PREPARED BY: Jeremy Heath, EH&S Specialist

Vanson HaloSource, Inc
Material Safety Data Sheet

Material Name: **SeaKlear® Natural Clarifier for Pools** **VHI-MSDS-02.13 Rev 03**
Telephone No**: 425-881-6464** Date Prepared: 04-28-05

24-HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300

SECTION I – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer's Name:	**Vanson HaloSource, Inc**.
Corporate Address:	**14716 NE 87th Street, Redmond, WA 98052**
Emergency Phone:	**800-424-9300 Chemtrec**
Manufacturer's Phone:	**(425) 881-6464**
Material Name:	**SeaKlear Natural Clarifier**
Chemical Name:	**Chitosan acetate**

SECTION II – COMPOSITION, INFORMATION ON INGREDIENTS

CAS NO.	INGREDIENT	EXPOSURE LIMITS
9012-76-4	Chitosan	NA
64-19-7	Acetic Acid	
	Water	

SECTION III – HAZARDS IDENTIFICATION

PRINCIPAL HEALTH HAZARDS, INCLUDING SIGNIFICANT ROUTES, EFFECTS, AND SYMPTOMS OF OVEREXPOSURE AND MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE MAY BE:

EYE: May be mildly irritating to eyes.

SKIN: Not hazardous to skin.

INHALATION: See first aid section below.

INGESTION: Not likely to be hazardous by ingestion.

CARCINOGENICITY: Not listed by National Toxicology Program (NTP) OSHA, or International Agency for Research on Cancer (IARC)

SECTION IV - FIRST AID

EYES: Remove contact lenses (if applicable), flush with water for 15 minutes. Call a physician.

SKIN: Cleansing the skin after exposure is advisable.

INHALATION: If large amounts of fumes are inhaled, remove to fresh air and consult a physician.

INGESTION: Consult a physician if necessary.

SECTION V - FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS: NA

EXTINGUISHING MEDIA: Does not burn. Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

FIREFIGHTING INSTRUCTIONS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

FLASH POINT: NA

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Wear suitable protective clothing. Dilute with water and hose down.

DISPOSAL INFORMATION: Material is 100% biodegradable, is nontoxic and can be disposed of in any approved manner. Treatment, storage, transportation and disposal must be in accordance with applicable Federal State/Provincial and local regulations.

DISPOSAL METHODS: Dilute with water and hose down.

SECTION VII - HANDLING & STORAGE

HANDLING & STORAGE PRECAUTIONS: 10-50°C recommended (will freeze @ ~3°C). Shelf life is indefinite but viscosity will decrease over time. The container should be kept covered to prevent contamination.

SECTION VIII - EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE): Good hygiene practices should be strictly followed. Before eating, drinking or smoking, wash face and hands thoroughly. Emergency showers and eyewash facilities should be accessible.

EYE PROTECTION: Safety glasses recommended.

SKIN PROTECTION: Rubber gloves recommended.

PROTECTIVE CLOTHING: NA

PROTECTIVE FOOTWEAR: NA

RESPIRATORY PROTECTION: NA

.

VENTILATION REQUIREMENTS: Generally adequate

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL FORM: Clear to pale yellow viscous liquid with a pungent vinegar odor.

BOILING POINT: 211°F

MELTING POINT: NA

pH: 3.0-4.5

SOLUBILITY IN WATER: Soluble.

SPECIFIC GRAVITY: 1.0-1.1 g/mL

SECTION X - STABILITY & REACTIVITY DATA

CHEMICAL STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLES: Strong oxidizing material and strong bases.

DECOMPOSITION PRODUCTS: Decomposition will not occur.

Material is bio-degradable.

SECTION XI - TOXICOLOGICAL INFORMATION

ORAL Rat $LD_{50\ (MG/KG)}$: NA
Ipr Rat, $LD_{50(MG/KG)}$: NA
SCU Mouse, $LD_{50(MG/KG)}$: NA
IV-Mouse, $LD_{50(MG/KG)}$: NA
DERMAL LD_{50} (rabbit): NA
EYE IRRITATION (rabbit): NA
SKIN IRRITATION (rabbit): NA

SECTION XII - ECOLOGICAL INFORMATION

Fish 96-hour LC_{50}	=	NA
Daphnia 48-hour LC_{50}	=	NA
Green algae 96-hour EC_{50}	=	NA
Fish Chronic Value (ChV)	=	NA
Daphnia ChV	=	NA
Algae ChV	=	NA

SECTION XIII - DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable federal, local and State environmental regulations. Material is 100% biodegradable, is nontoxic and can be disposed of in any approved manner.

SECTION XIV - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:	Chemicals, N.O.S. (non-regulated) (Domestic & International)
DOT Hazard Class:	Not regulated as a hazardous material
Packing Group:	NA
UN Number:	NA
Product RQ (lbs.):	NA
DOT Label:	NA
DOT Placard:	NA

SECTION XV - REGULATORY INFORMATION

MATERIAL IS REPORTED IN EPA TSCA INVENTORY LIST?: No

MATERIAL IS LISTED AS A CARCINOGEN/POTENTIAL CARCINOGEN IN FOLLOWING?: No

NTP ANNUAL REPORT: No **IARC GROUP I OR II:** No **OSHA 29CFR PART 1910 SUBPART Z:** No

DOES PRODUCT CONTAIN A TOXIC CHEMICAL SUBJECT TO SARA TITLE III SECTION 313 REPORTING: No

SARA TITLE III SECTION 311/312 CLASSIFICATIONS: None

SECTION XVI – OTHER INFORMATION

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The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont(tm) Pool Care Metal Remover
6503CR Revised 8-DEC-2005

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont Chemical Solutions Enterprise
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS
Product Information : 1-800-441-7515 (outside the U.S. 302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S. 703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S. 302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Sodium Citrate	68-04-2	

HAZARDS IDENTIFICATION

Potential Health Effects

Eye Contact:

May cause eye irritation.

Skin Contact:

May cause skin irritation.

Ingestion:

May cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Inhalation:

May be harmful if inhaled.

(HAZARDS IDENTIFICATION - Continued)

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

FIRE FIGHTING MEASURES

Flammable Properties

Not a fire or explosion hazard.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

Evacuate personnel to a safe area. Wear self-contained breathing apparatus (SCBA) and full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Wear self-contained breathing apparatus (SCBA) and full protective gear.

Spill Clean Up

Flush to sewer.

HANDLING AND STORAGE

Handling (Personnel)

Avoid inhalation. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects)

Keep container tightly closed.

Storage

Store in a cool, dry place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear coverall chemical splash goggles. Additionally, wear a face shield where the possibility exists for face contact due to splashing or spraying of material.

RESPIRATORS Wear NIOSH approved respiratory protection as appropriate.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, jacket, hood and boots.

(EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

Exposure Guidelines

Exposure Limits
DuPont(tm) Pool Care Metal Remover
PEL (OSHA) : None Established
TLV (ACGIH) : None Established

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	: >1500 C (>2732 F)
Solubility in Water	: Soluble
Odor	: None.
Color	: Clear.
Specific Gravity	: 1 g/mL
Form	: Liquid.

STABILITY AND REACTIVITY

Chemical Stability

Stable.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Hazardous decomposition products: toxic fumes of Na2O and POx.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Sodium Citrate:

Oral LD50 mg/kg (rat): 1546 mg/kg

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

TRANSPORTATION INFORMATION

Shipping Information

Not Regulated as a hazardous material by DOT, IMO, or IATA.

REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute	: Yes
Chronic	: No
Fire	: No
Reactivity	: No
Pressure	: No

OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating

Health	: 1
Flammability	: 0
Reactivity	: 0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsible for MSDS	: MSDS Coordinator
>	: DuPont Chemical Solutions Enterprise
Address	: Wilmington, DE 19898
Telephone	: (800) 441-7515

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS

Material Safety Data Sheet

POLY-BRITE

Section 1. Chemical product and company identification

Trade name : POLY-BRITE
Product use : Bottle wash additive
Supplier : Ecolab Food and Beverage
5105 Tomken Road
Mississauga ON L4W 2X5
1-800-352-5326
Code : 990283-01
Date of issue : **25-January-2006**

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

Name	CAS number	% by weight
polyphosphoric acids, sodium salts	68915-31-1	5- 10
triphosphoric acid, pentasodium salt	7758-29-4	3 - 7
disodium metasilicate	6834-92-0	3 - 7
sodium phosphate, tribasic	7601-54-9	1 - 5

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : DANGER!
CAUSES EYE AND SKIN BURNS.
CAUSES SEVERE RESPIRATORY TRACT IRRITATION.
HARMFUL IF SWALLOWED.
Do not ingest. Do not get in eyes, on skin or clothing. Avoid breathing vapour or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Severely irritating to the respiratory system.
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.

See toxicological information (section 11)

Section 4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

Section 5. Fire-fighting measures

Auto-ignition temperature : Not available.

Flash point : > 100°C

Flammable limits

Upper: Not available.

Lower: Not available.

Products of combustion : Not available.

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dyke liquid for later disposal.

No specific hazard.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Risk of explosion of the product in the presence of mechanical impact: Not available.

Risk of explosion of the product in the presence of static discharge: Not available.

Section 6. Accidental release measures

Personal Precautions : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains or watercourses.

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain material to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapour or mist. Wash thoroughly after handling.

Storage : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Store between 40 and 0°C

Section 8. Exposure controls, personal protection

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Provide eyewash and safety shower in area if contact or splash hazard exists.

Personal protection

Eyes : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hands : Use chemical-resistant, impervious gloves.

Skin : Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Respiratory : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)
Colour : Clear.
Odour : Faint odour.
pH : 12.98 (100%)
Boiling/condensation point : Not available.
Melting/freezing point : Not available.
Specific gravity : 1.18 (Water = 1)
Vapour pressure : Not applicable.
Vapour density : Not available.
Odour threshold : Not available.
Evaporation rate : Not available.
LogK_{ow} : Not available.

Section 10. Stability and reactivity

Stability : The product is stable.
Conditions of instability : Not available.
Reactivity : Highly reactive with acids.
Slightly reactive to reactive with metals.
Incompatibility with various substances : Not available.
Hazardous Decomposition Products : Not available.

Section 11. Toxicological information

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Severely irritating to the respiratory system.
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.
Irritancy of Product : Hazardous by WHMIS criteria.

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards.
Mutagenic effects : No known significant effects or critical hazards.
Teratogenic effects : No known significant effects or critical hazards.
Reproductive effects : No known significant effects or critical hazards.
Sensitization to Product : No known significant effects or critical hazards.
Synergistic products (toxicologically) : Not available.

Toxicity data

Ingredient name	Test	Result	Route	Species
polyphosphoric acids, sodium salts	LD50	3053 mg/kg	Oral	Rat
	LD50	7572 mg/kg	Oral	Mouse
triphosphoric acid, pentasodium salt	LD50	3120 mg/kg	Oral	Rat
	LD50	3100 mg/kg	Oral	Mouse
	LD50	>4640 mg/kg	Dermal	Rabbit
disodium metasilicate	LD50	1153 mg/kg	Oral	Rat
	LD50	770 mg/kg	Oral	Mouse
	LDLo	250 mg/kg	Oral	Dog
	LDLo	250 mg/kg	Oral	pig

Target organs : Not available.

Section 12. Ecological information

Products of degradation : These products are phosphates. Some metallic oxides.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
TDG Classification	UN3253	DISODIUM TRIOXOSILICATE	8	III	**Explosive Limit and Limited Quantity Index** 5 **Passenger Carrying Road or Rail Index** 25

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

WHMIS : Class E: Corrosive material.

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

Section 16. Other information

Date of issue : **25-January-2006.**

Responsible name : **Regulatory Affairs**

Date of previous issue : **25-January-2006.**

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

SAFETY DATA SHEET

Date of issue: 18/08/94

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 16612 ID No.: 1661200

Product name: **Aquamerck® Simple pH of swimming pool water test kit- Reagent 1**

Manufacturer/supplier identification

Company: VWR International Ltd., Merck House, Poole, Dorset, BH15 1TD, England
Telephone : + 44 (0) 1202 669700 Telefax : + 44 (0) 1202 665599

Emergency telephone No.: + 44 (0) 1202 669700

2. Composition/information on ingredients

Chemical characterization

Solution in water

Product name: Aquamerck® simple pH of swimming pool water test - Reagent 1

3. Hazards identification

4. First aid measures

- Eye contact: Irrigate thoroughly with water. If discomfort persists obtain medical attention.
- Inhalation: Remove from exposure.
- Skin contact: Wash off thoroughly with soap and water.
- Ingestion: Wash out mouth thoroughly with water. In severe cases obtain medical attention.

5. Fire-fighting measures

Special risks:

Not applicable.

Suitable extinguishing media:

Not applicable

6. Accidental release measures

Wear appropriate protective clothing.
If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with detergent and water.
For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers.

Any residues should be treated as for small spillages.

7. Handling and storage

Handling:

Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

8. Exposure controls/personal protection

UK Exposure Limits:

None assigned

Personal protective equipment:

As appropriate to the situation and the quantity handled.
- Respirator: Not applicable
- Ventilation: Not applicable
- Gloves: Rubber or plastic
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

9. Physical and chemical properties

General information:

Product description	Red solution

Health, safety and environmental information:

Melting temperature		n/a
Boiling temperature		n/a
Density(g/ml)		n/a
Vapour pressure		n/a
Relative vapour density:		n/a
Solubility in water		Miscible in all proportions
Flash point		n/a
Explosion limits:	lower:	n/a
Auto-ignition temperature		n/a

10. Stability and reactivity

Stable.

No data

11. Toxicological information

May be harmful if ingested in quantity. May irritate eyes. Stains.

Further data

No data

We have no evidence of carcinogenic effects. We have no evidence of mutagenic or teratogenic effects.

12. Ecological information

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

13. Disposal considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC directives

Local Regulations

16. Other information

Date of issue:	18/08/94
Date of print:	13/07/05

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

28262-53 APA 6000 Alkalinity Standard 2

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

28262-53 APA 6000 Alkalinity Standard 2

Use of the substance/preparation

Water analysis

Company/undertaking identification

Company name :	HACH LANGE GmbH
Street :	Willstätterstr. 11
Place :	D-40549 Düsseldorf
Telephone :	+49 (0)211 5288-383
e-mail :	marion.ives@hach-lange.de
Internet :	www.hach-lange.com
Inquiry office :	HACH LANGE Ltd. Pacific Way Salford Manchester M50 1DL - United Kingdom Tel. +44 (0) 161 872 1487 e-Mail: martin.butterfield@hach-lange.co.uk HACH LANGE Ltd. Unit 1, Chestnut Road Western Industrial Estate Dublin 12 - Ireland Tel. +353 (0)1 4602522 e-Mail: joseph.diver@hach-lange.ie

2. Hazards identification

Classification

The product does not need to be labelled in accordance with EC directives or respective national laws.

3. Composition/information on ingredients

Chemical characterization (preparation)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
213-791-2	7732-18-5	Water	> 99 %	
207-838-8	497-19-8	Sodium carbonate	0,1 - 1,0 %	Xi R36

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

After inhalation

Move to fresh air.

After contact with skin

Wash off immediately with plenty of water.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Clean mouth with water and drink afterwards plenty of water.

Advice to doctor

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Fire may liberate hazardous vapours.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal precautions

Use personal protective equipment.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. Handling and storage

Handling

Advice on safe handling

Use only in well-ventilated areas.

Storage

Requirements for storage rooms and vessels

Keep in a dry, cool place.

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection

Use barrier skin cream.
Wash hands before breaks and after work.
Chemical resistant protective gloves
The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

Eye protection

Safety glasses with side-shields

Skin protection

Remove and wash contaminated clothing before re-use.

9. Physical and chemical properties

General information

Physical state :	liquid
Colour :	colourless
Odour :	odourless

Important health, safety and environmental information

		Test method
Changes in the physical state		
Boiling point :	100 °C	
Flash point :	not applicable	
Lower explosion limits :	not applicable	
Upper explosion limits :	not applicable	
Density (at 20 °C) :	1 g/cm³	
Water solubility :	miscible	

10. Stability and reactivity

Conditions to avoid

No dangerous reaction known under conditions of normal use.

Materials to avoid

No dangerous reaction known under conditions of normal use.

Hazardous decomposition products

No decomposition if stored and applied as directed.

11. Toxicological information

Acute toxicity

No data is available on the product itself.

Specific effects in experiment on an animal

No data is available on the product itself.

12. Ecological information

Ecotoxicity

No data is available on the product itself.
Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

14. Transport information

Land transport (ADR/RID)

Remarks (land transport)

Not subject to transport regulations.

Inland waterways transport

Remarks (inland waterways transport)

Not tested

Marine transport

Remarks (marine transport)

Not subject to transport regulations.

Air transport

Remarks (air transport)

Not subject to transport regulations.

15. Regulatory information

Labelling

Additional advice on labelling

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

EU regulatory information

Additional information

The product does not need to be labelled in accordance with EC directives or respective national laws.

National regulatory information

Water contaminating class : - - not water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

36 Irritating to eyes.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

SIGMA-ALDRICH

MATERIAL SAFETY DATA SHEET

Date Printed: 03/10/2007
Date Updated: 02/01/2006
Version 1.3

Section 1 - Product and Company Information

Product Name	1,3,5-TRIS(2-HYDROXYETHYL)CYANURIC ACID, 97%
Product Number	309001
Brand	ALDRICH
Company	Sigma-Aldrich
Address	3050 Spruce Street SAINT LOUIS MO 63103 US
Technical Phone:	800-325-5832
Fax:	800-325-5052
Emergency Phone:	314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
1,3,5-TRIS(2-HYDROXYETHYL)CYANURIC ACID,97%	839-90-7	No

Formula C9H15N3O6

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Irritant.
Irritating to eyes, respiratory system and skin.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

FLASH POINT

N/A

AUTOIGNITION TEMP
N/A

FLAMMABILITY
N/A

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

EXPOSURE HAZARD(S)
Material: Irritant.

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING
User Exposure: Avoid contact and inhalation. Do not get in eyes, on skin, on clothing.

STORAGE
Suitable: Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.
Hand: Rubber gloves.
Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Molecular Weight	261.24 AMU
pH	N/A
BP/BP Range	N/A

MP/MP Range	136.0 - 140.0 °C
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Surface Tension	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

N/A = not available

Section 10 - Stability and Reactivity

STABILITY
Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Section 11 - Toxicological Information

ROUTE OF EXPOSURE
Inhalation: Material is irritating to mucous membranes and upper respiratory tract.
Multiple Routes: Causes eye and skin irritation. May be harmful by inhalation, ingestion, or skin absorption.

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION
Symbol of Danger: Xi
Indication of Danger: Irritant.
R: 36/37/38
Risk Statements: Irritating to eyes, respiratory system and skin.
S: 26-37/39
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Irritant.
Risk Statements: Irritating to eyes, respiratory system and skin.
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

Section 16 - Other Information

DISCLAIMER
For R&D use only. Not for drug, household or other uses.

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.
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SIGMA-ALDRICH

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EMERGENCY OVERVIEW

Irritant.
Irritating to eyes, respiratory system and skin.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

FLASH POINT

N/A

AUTOIGNITION TEMP
N/A

FLAMMABILITY
N/A

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

EXPOSURE HAZARD(S)
Material: Irritant.

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PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING
User Exposure: Avoid contact and inhalation. Do not get in eyes, on skin, on clothing.

STORAGE
Suitable: Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.
Hand: Rubber gloves.
Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Molecular Weight	261.24 AMU
pH	N/A
BP/BP Range	N/A

MP/MP Range	136.0 - 140.0 °C
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Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Surface Tension	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

N/A = not available

Section 10 - Stability and Reactivity

STABILITY
Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

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Inhalation: Material is irritating to mucous membranes and upper respiratory tract.
Multiple Routes: Causes eye and skin irritation. May be harmful by inhalation, ingestion, or skin absorption.

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

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Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

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UNITED STATES REGULATORY INFORMATION
SARA LISTED: No

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

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MATERIAL SAFETY DATA SHEET

MANUFACTURER: TAYLOR TECHNOLOGIES, INC
31 LOVETON CIRCLE
SPARKS, MD 21152
TELEPHONE: 410-472-4340

1.PRODUCT IDENTIFICATION

CATALOG NO.: R-0001
PRODUCT NAME: DPD Reagent #1
CHEMICAL FAMILY: Inorganic salt solution

2.INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Potassium phosphate	7778-77-0	<10	Irritant
Sodium phosphate	7558-79-4	<10	Irritant
Nonhazardous ingredients	NA	<1	None
Deionized water	7732-18-5	to 100	None

3.PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, colorless ODOR: None
BOILING PT (F): 212 pH: 10 SPECIFIC GRAVITY: 1.24
VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .64
PERCENT VOLATILE BY VOLUME: 68 SOLUBILITY IN WATER: Soluble

4.FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA
FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and full-protective clothing
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of phosphorus oxides
NFPA CODE: Health: 0 Flammability: 0 Reactivity: 0 Specific: NA
CONDITIONS TO AVOID: Extreme heat, temperatures.

5.HEALTH HAZARD DATA

INGREDIENT: NA
TOXICITY: NA
PEL: NA TLV: NA
STEL: NA

ROUTE(S) OF ENTRY: Inhalation Ingestion X Skin X
TARGET ORGAN(S): Eyes, skin
CARCINOGENICITY: NTP No IARC No OSHA No
HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:
EYES: Irritant.
SKIN: Contact may cause irritation.
INGESTION: Irritant. Large quantities may cause gastrointestinal irritation, nausea, and diarrhea.
INHALATION: NA
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

6.PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat
HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.
STORAGE: Cool, dry area. Avoid direct sunlight.

7.EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.
INGESTION: Give large amounts of water. Call physician. Treat symptoms as needed. DO NOT give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.
INHALATION: NA

8.SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Absorb with vermiculite or other inert material. Containerize for later disposal.
DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

NA = Not applicable
ND = Not determined
NE = Not established

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DATE PREPARED: March 2006

MATERIAL SAFETY DATA SHEET

MANUFACTURER: TAYLOR TECHNOLOGIES, INC
31 LOVETON CIRCLE
SPARKS, MD 21152
TELEPHONE: 410-472-4340

1.PRODUCT IDENTIFICATION

CATALOG NO.: R-0002
PRODUCT NAME: DPD Reagent #2
CHEMICAL FAMILY: Acidic organic amine solution

2.INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
N,N-Diethyl-p-phenylene-diamine sulfate	6283-63-2	<1	Irritant, toxic
Organic acid (trade secret)	Confidential	<10	Irritant acid
Nonhazardous ingredients	NA	<1	None
Deionized water	7732-18-5	to 100	None

3.PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, colorless ODOR: None
BOILING PT (F): 212 pH: 1.3 SPECIFIC GRAVITY: 1.01
VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .65
PERCENT VOLATILE BY VOLUME: 99 SOLUBILITY IN WATER: Soluble

4.FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA
FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: NA
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and special protective clothing
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of carbon dioxide, carbon monoxide, nitrogen oxides, phosphine, phosphorus oxides, sulfur oxides. Contact with metals may produce hydrogen gas.
NFPA CODE: Health: 1 Flammability: 0 Reactivity: 0 Specific: NA
CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with metals, oxidizers, strong caustic.

5.HEALTH HAZARD DATA

INGREDIENT: Organic acid
TOXICITY: LD50(orl-rat): 2400 mg/kg LD50(skn-rbt): >7940 mg/kg
PEL: NE TLV: NE
STEL: NE

INGREDIENT: N,N-Diethyl-p-phenylenediamine sulfate
TOXICITY: LD50(unr-rat): 450 mg/kg
PEL: NE TLV: NE
STEL: NE

5.HEALTH HAZARD DATA - continued

ROUTE(S) OF ENTRY: Inhalation Ingestion X Skin X
TARGET ORGAN(S): Eyes, skin, gastrointestinal tract
CARCINOGENICITY: NTP No IARC No OSHA No
HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:
EYES: Irritant
SKIN: Irritant. Contact may cause dermatitis.
INGESTION: Irritant, toxic. May cause gastrointestinal irritation, nausea, cramps, diarrhea.
INHALATION: NA
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

6.PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat
HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.
STORAGE: Cool, dry area. Avoid direct sunlight.

7.EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.
INGESTION: Give large amounts of water or large amounts of water with milk of magnesia. Call physician. DO NOT INDUCE VOMITING. DO NOT give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.
INHALATION: NA

8.SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Neutralize with soda ash. Absorb with vermiculite or other inert material. Containerize for later disposal.
DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

NA = Not applicable
ND = Not determined
NE = Not established

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DATE PREPARED: July 2005

MATERIAL SAFETY DATA SHEET

MANUFACTURER: TAYLOR TECHNOLOGIES, INC
31 LOVETON CIRCLE
SPARKS, MD 21152
TELEPHONE: 410-472-4340

1.PRODUCT IDENTIFICATION

CATALOG NO.: R-0003
PRODUCT NAME: DPD Reagent #3
CHEMICAL FAMILY: Inorganic salt solution

2.INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Potassium iodide	7681-11-0	<20	Irritant
Nonhazardous ingredients	NA	<1	None
Deionized water	7732-18-5	to 100	None

3.PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, colorless ODOR: None
BOILING PT (F): 212 pH: 7.6 SPECIFIC GRAVITY: 1.07
VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .6
PERCENT VOLATILE BY VOLUME: 80 SOLUBILITY IN WATER: Soluble

4.FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA
FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: NA
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and full-protective clothing
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of iodine.
NFPA CODE: Health: 0 Flammability: 0 Reactivity: 0 Specific: NA
CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with oxidizers, acids.

5.HEALTH HAZARD DATA

INGREDIENT: Potassium iodide
TOXICITY: LD50(orl-mus): 1862 mg/kg
PEL: NE TLV: NE
STEL: NE

ROUTE(S) OF ENTRY: Inhalation Ingestion X Skin X
TARGET ORGAN(S): Eyes, skin
CARCINOGENICITY: NTP No IARC No OSHA No
HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:
EYES: Contact may cause irritation.
SKIN: Contact may cause irritation.
INGESTION: Irritant. May cause gastrointestinal irritation.
INHALATION: NA
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

6.PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat
HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.
STORAGE: Cool, dry area. Avoid direct sunlight.

7.EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.
INGESTION: Give large amounts of water. Call physician. Treat symptoms as needed. DO NOT give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.
INHALATION: NA

8.SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Absorb with vermiculite or other inert material. Containerize for later disposal.
DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

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ND = Not determined
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DATE PREPARED: February 2007

MATERIAL SAFETY DATA SHEET

MANUFACTURER: TAYLOR TECHNOLOGIES, INC
31 LOVETON CIRCLE
SPARKS, MD 21152
TELEPHONE: 410-472-4340

1.PRODUCT IDENTIFICATION

CATALOG NO.: R-0004
PRODUCT NAME: pH Indicator Solution (Phenol Red)
CHEMICAL FAMILY: Sulfonphthalein dye solution

2.INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Nonhazardous ingredients, each	NA	<1	None
Deionized water	7732-18-5	to 100	None

3.PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, red ODOR: Phenolic
BOILING PT (F): 212 pH: 7.7 SPECIFIC GRAVITY: 1
VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .6
PERCENT VOLATILE BY VOLUME: 98 SOLUBILITY IN WATER: Soluble

4.FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA
FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: NA
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and full-protective clothing
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of carbon oxides, nitrogen oxides, ammonia.
NFPA CODE: Health: 0 Flammability: 0 Reactivity: 0 Specific: NA
CONDITIONS TO AVOID: Extreme heat, temperatures.

5.HEALTH HAZARD DATA

INGREDIENT: NA
TOXICITY: NA
PEL: NA TLV: NA
STEL: NA

ROUTE(S) OF ENTRY: Inhalation Ingestion X Skin X
TARGET ORGAN(S): Eyes, skin
CARCINOGENICITY: NTP No IARC No OSHA No
HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:
EYES: Contact may cause irritation.
SKIN: Contact may cause staining.
INGESTION: Large quantities may cause gastrointestinal irritation.
INHALATION: NA
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

6.PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat
HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.
STORAGE: Cool, dry area. Avoid direct sunlight.

7.EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.
INGESTION: Give large amounts of water. Call physician. Treat symptoms as needed. DO NOT give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.
INHALATION: NA

8.SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Absorb with vermiculite or other inert material. Containerize for later disposal.
DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

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DATE PREPARED: February 2007

MATERIAL SAFETY DATA SHEET

MANUFACTURER: TAYLOR TECHNOLOGIES, INC
31 LOVETON CIRCLE
SPARKS, MD 21152
TELEPHONE: 410-472-4340

1.PRODUCT IDENTIFICATION

CATALOG NO.: R-0005
PRODUCT NAME: Acid Demand Reagent (ADR)
CHEMICAL FAMILY: Inorganic acid solution

2.INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Sulfuric acid	7664-93-9	<1	Irritant acid
Deionized water	7732-18-5	to 100	None

3.PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, colorless ODOR: None
BOILING PT (F): 212 pH: 1.3 SPECIFIC GRAVITY: 1
VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .6
PERCENT VOLATILE BY VOLUME: 100 SOLUBILITY IN WATER: Soluble

4.FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA
FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and special protective clothing
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May react violently with water. May react with metals to produce hydrogen gas. May ignite combustible materials. May emit toxic fumes of sulfur oxides.
NFPA CODE: Health: 1 Flammability: 0 Reactivity: 0 Specific: NA
CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with strong alkali, metals.

5.HEALTH HAZARD DATA

INGREDIENT: Sulfuric acid
TOXICITY: LD50(orl-rat): 2140 mg/kg
PEL: 1 mg/m3 TLV: 1 mg/m3
STEL: 3 mg/m3

ROUTE(S) OF ENTRY: Inhalation Ingestion X Skin X
TARGET ORGAN(S): Eyes, skin
CARCINOGENICITY: NTP No IARC No OSHA No
HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:
EYES: Irritant. Contact may cause burns.
SKIN: Irritant. Contact may cause burns.
INGESTION: Irritant. May cause gastrointestinal irritation.
INHALATION: NA
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

6.PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat
HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.
STORAGE: Cool, dry area. Avoid direct sunlight.

7.EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.
INGESTION: Give large amounts of water or large amounts of water with milk of magnesia. Call physician. DO NOT INDUCE VOMITING. DO NOT give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.
INHALATION: NA

8.SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Neutralize with soda ash. Absorb with vermiculite or other inert material. Containerize for later disposal.
DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

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DATE PREPARED: October 2005

MATERIAL SAFETY DATA SHEET

MANUFACTURER: TAYLOR TECHNOLOGIES, INC
31 LOVETON CIRCLE
SPARKS, MD 21152
TELEPHONE: 410-472-4340

1.PRODUCT IDENTIFICATION

CATALOG NO.: R-0006
PRODUCT NAME: Base Demand Reagent (BDR)
CHEMICAL FAMILY: Inorganic alkali solution

2.INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Sodium carbonate	497-19-8	<1	Irritant alkali
Deionized water	7732-18-5	to 100	None

3.PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, colorless ODOR: None
BOILING PT (F): 212 pH: 11.2 SPECIFIC GRAVITY: 1
VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .6
PERCENT VOLATILE BY VOLUME: 99 SOLUBILITY IN WATER: Soluble

4.FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA
FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: NA
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and full-protective clothing
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May react violently with strong acids, fluorine, aluminum and lithium metals, and phosphorus pentoxide. May emit toxic fumes of sodium oxide and carbon dioxide.
NFPA CODE: Health: 1 Flammability: 0 Reactivity: 0 Specific: NA
CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with strong acids, fluorine, metals, phosphorus pentoxide.

5.HEALTH HAZARD DATA

INGREDIENT: Sodium carbonate
TOXICITY: LD50(orl-rat): 4090 mg/kg
PEL: NE TLV: NE
STEL: NE

ROUTE(S) OF ENTRY: Inhalation Ingestion X Skin X
TARGET ORGAN(S): Eyes, skin
CARCINOGENICITY: NTP No IARC No OSHA No
HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:
EYES: Irritant.
SKIN: Irritant. Contact may cause irritation.
INGESTION: Irritant. May cause gastrointestinal irritation.
INHALATION: NA
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

6.PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat
HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.
STORAGE: Cool, dry area. Avoid direct sunlight.

7.EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.
INGESTION: Give large amounts of water. Call physician. DO NOT INDUCE VOMITING. DO NOT give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.

INHALATION: NA

8.SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Neutralize with dilute acid. Absorb with vermiculite or other inert material. Containerize for later disposal.
DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

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DATE PREPARED: July 2005

MSDS

MATERIAL SAFETY DATA SHEET

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA
TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

1. Product Identification

Product Code: **2976**

Product Description: 3-Way Instatest Pool & Spa Test Strips

Manufactured By: LaMotte Company
802 Washington Avenue
Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
	N/A Dyes	<1		
	N/A Buffers	<1		
	N/A Polymers, binders	<1		
	N/A Surfactant	<1		
	N/A Organic acid	<1		

NO HAZARDOUS INGREDIENTS in amounts >0.l%

All other ingredients are proprietary

Strips measure alkalinity, pH, and free chlorine in water.

3. Hazards Overview

Primary Route Of Entry:

HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1= Slight, 0 = Least

Health: 0 **Flammability:** 0 **Reactivity:** 0

Carcinogenicity: None:

Other Health Related Comments:

Strips are non-toxic.

4. First Aid Measures

Eye Contact: Flush with water.

Skin Contact: Flush with water. Wash with soap and water.

Ingestion: Consult a physician.

Inhalation: N/A

5. Fire Fighting Measures

Flash Point (Method Used): N/A **LEL:** N/A **UEL:** N/A

Extinguishing Media: Water spray

Special Fire Fighting Procedures: N/A

Unusual Fire & Explosion Hazard: N/A

6. Accidental Release Measures

Sweep up and discard to trash.

7. Handling & Storage

Store in cool, dry, storage area.

8. Exposure Controls/Personal Protection

Ventilation

Normal

Protection When Handling

N/A

Work/Hygenic Practices: N/A

9. Physical & Chemical Properties

Appearance:	White Plastic Strip with colored paper pads	**Vapor Density:**	N/A
Solubility In Water:	Insoluble	**Vapor Pressure:**	N/A
Odor:	None	**Boiling Point:**	N/A
pH:	N/A	**Melting Point:**	N/A

10. Stability & Reactivity

Stable:	Yes
Conditions To Avoid:	Heat, Light, Moisture, air.
Incompatibility (Materials To Avoid):	N/A
Hazardous Decomposition Products:	N/A

11. Toxicological Information

non-toxic

Target Organs: N/A

12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

Discard to trash. Dispose according to federal, state and local regulations.

14. Transportation Information

Not Regulated For Transport

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA TSCA	Europe EC	--- Canada --- DSL	NDSL	Australia	Japan

Product Code: 2976 **Product Description:** 3-Way Instatest Pool & Spa Test Strips

Federal, State, & International Regulations

Ingredient	--- SARA 302 --- RQ	TPQ	--------- SARA 313 --------- Listed	Chemical Category	CERCLA	RCRA 261.33	TSCA 8(D)

Ingredient	--- SARA 311/312 --- Hazard Categories Acute	Chronic	Fire	Pressure	Reactivity	-------- Australia ------- Hazchem Code	Poison Schedule	This MSDS Is WHMIS Compliant
product 2976 as a whole	No	No	No	No	No	None Allocated	None Allocated	

16. Other Information

Store in cool, dry place out of direct sunlight.

Prepared By: IP, Regulatory Affairs Department

Revised: 11/2/2005

Atlantic Chemical Equipment Co.
2190 DeFoor Hills Rd NW
Atlanta, GA 30318
404-355-5522

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: DETERGENT TABLETS BLISTER PACK (DPT)

EMERGENCY PHONE: 1-800-424-9300

May be used to comply with OSHA'S Hazard Communications Standard (HSC) 29 CRF 1910, 1200.
Standard must be consulted for specific requirements. This product contains no substances subject to SARA TITLE III and 40 CRF.

HMIS SYMBOLS	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

1 - IDENTIFICATION

PRODUCT NAME: (DPT) DETERGENT TABLETS BLISTER PACK	PACKAGE TYPE: 12 Cards/8 tablets per card
PREPARED DEPARTMENT OF HAZARDOUS COMMUNICATIONS	DATE PREPARED: June 2003

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S) (CHEMICAL NAMES)	CAS NO	ACGIH TLV	OSHA PEL	% or RANGE
N-Alkydimethyl Benzyl Ammonium Chloride	1733-96-6			20

III - PHYSICAL DATA

BOILING POINT (^{0}F) : N.A.	SPECIFIC GRAVITY (H_20= 1) : N.A.
VAPOR PRESSURE (mm Hg) : N.A.	MELTING POINT: 0
VAPOR DENSITY (Air = 1) : N.A.	EVAPORATION RATE (H_20 = 1) : 0.0001
pH :	APPEARANCE AND ODOR : White tablets, no odor
SOLUBILITY IN WATER : 80%	

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: Flash Point NONE

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

V - REACTIVITY DATA

CHEMICAL STABILITY	UNSTABLE		**CONDITIONS TO AVOID:**
	STABLE	X	

INCOMPATIBILITY (Materials to avoid): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	X	

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: **EYES** Yes **SKIN** Yes **INGESTION** Yes **INHALATION** Yes

EFFECTS OF OVER EXPOSURE:

INHALATION: If crushed or powdered, dusts are toxic

SKIN CONTACT/ABSORPTION: Irritating to skin

INGESTION: Toxic by ingestion

EYES: Irritating on eye contact

CARCINOGENICITY: **NTP?** Not listed **IARC MONOGRAPHS?** Not listed **OSHA REGULATED?** Not listed

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: **EYES -** Wash eyes with large quantities of water for 15 minutes. If irritation persists, call physician. **SKIN -** Wash skin with soap and water

INHALATION: Remove to fresh air. If breathing remains difficult GET IMMEDIATE MEDICAL ATTENTION

INGESTION: If swallowed, drink large quantities of milk, egg white, gelatin. Do not induce vomiting. Avoid alcohol. GET IMMEDIATE MEDICAL ATTENTION.

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:
Wash off with soap and water. Do not get in eyes or on mucous membrane

WASTE DISPOSAL METHOD: Incinerate with adequate ventilation

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: Use approved NIOSH respirator in dusty conditions

EYE: Chemical goggles recommended

SKIN: Wear impervious gloves **PROTECTIVE GLOVES:** Impervious rubber or neoprene

OTHER: Do not eat, drink, or smoke in work area. Wash hands before eating

VENTILATION REQUIREMENTS: None needed

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not remove tablets from pouch.

SPECIAL PRECAUTIONARY STATEMENTS: Do not get in eyes. Do not take internally. **Keep this and all chemicals out of reach of children.**

NOTICE: We believe that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, expressed or implied, of merchantability fitness or otherwise is made.

SARA Title III Reporting Requirements

302	(Extremely Hazardous Substances): **Reporting not required.**
304/CERCLA	(Spills Notification): **Not required.**
311	Community Right-To-Know, RTK): **Reporting not required. Acute health hazard, irritating, toxic.**
312	(RTK Inventory Data): **Reporting required for inventory above TPQ.**
313	(Emissions and Releases): **Reporting not required.**
DOT	NOT HAZARDOUS

References

TOXIC SUBSTANCE CONTROL CT LIST (TSCA) - INGREDIENTS LISTED

PERMISSIBLE EXPOSURE REFERENCES:

Registry of Toxic Effects of Chemical Substances.
Title 29 Code of Federal Regulations.
National Toxicology Program (NTP) Report on Carcinogens.
International Agency for Research on Cancer (IARC) Monographs.
Title 40 Code of Federal Regulations

REGULATORY STANDARDS:

DOT Title 49 Code of Federal Regulations 172.101
SARA Title III

Nuclear Regulatory Commission

Pumice Scouring Stick

Item Number:100714

U.S. Department Of Labor
Occupational Safety And Health Administration

MATERIAL SAFETY DATA SHEET

Required Under USDL Safety And Health Regulations
(29 CFP 1910.1200 "Hazards Communication Standard")

Section I

Manufactured For: Gabriel First Corp.
Emergency Telephone: 1-800-424-9300
Address: 233 W Commercial Street East Rochester, NY 14445
Chemical Name & Synonyms: Cleaning, Compound, Liquid
Trade Name & Synonyms: Pumice Scouring Stick
Prepared On: 6/30/2005

Section I - Hazardous Ingredients/Identity Information

Section II - Product & Component Data

Component(s)/ Chemical Names	CAS Registry No	%	TLV	PEL
Pumice (Volcanic Glass) There is No Free Crystalline Silica Present				

Section III - Physical Data

Boiling Point: N/A
Specific Gravity (H_2O=1): N/A
Melting Point: 2390° F
Vapor Pressure: N/A
Percent, Volatile By Volume (%): N/A
Vapor Density (Air=1): N/A
Evaporation Rate: N/A
Solubility In Water: Not Soluble
Appearance And Odor: Odorless Solid

Section IV - Fire And Explosion Hazard Data

Special Fire Fighting Procedures: None.
Unusual Fire and Explosion Hazards: None
Flash Point/Method Used: N/A
Flammable Limits: N/A
LEL: N/A **UEL:** N/A
Extinguishing Media: N/A

Section V - Health Hazard Data

Route(s) of Entry:
Inhalation? Yes
Skin? No
Ingestion: Yes
Health Hazards (Acute and Chronic): Dry sawing or grinding may result in the release of dust particles which, acute, may cause irritation of eyes, nose or throat and chronic, may result in lung disease (Silicosis) if exposed for prolonged time.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure: Irritation of eyes, nose and throat or shortness of breath.
Medical Conditions Generally Aggravated by Exposure: Pre-existing lung disease such as Emphysema or Asthma.

Emergency First Aid Procedures: Irrigate eyes generously with clean water for 15 minutes. If irritation persists call a physician.

Section VI - Reactivity Data

Stability Conditions To Avoid
Stable None
Materials To Avoid: None
Hazardous Decomposition Products: None
Hazardous Polymerization **Conditions To Avoid**
Will Not Occur None

Section VII - Spill Or Leak Procedures

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up and properly dispose.
Waste Disposal Method: Dispose as common waste.
Precautions To Be Taken in Handling and Storing: None
Other Precautions: Wear NIOSH approved respirator and tight fitting goggles. When dry sawing or grinding, or saw and grind when wet.

Section VIII - Special Protection Information

Control Measures (When Sawing or Grinding)
Respiratory Protection (Type): NIOSH Approved Particulate Respirator
Ventilation: Mechanical (General) in Confined Area
Protective Gloves: When Required
Eye Protection: Tight Fitting Goggles
Other Protective Equipment: None
Work/Hygienic Practices: N/A

Section IX - Special Precautions

Precautions To Be Taken In Handling And Storing: None

This information is given in good faith, but no warranty expressed or implied is made. Our company believes that it is accurate to the best of its knowledge and relates only to the specific material designated herein.

MSDS

BUFFER, REFERENCE STANDARD, pH 7.00; BUFFER, PRECISION REFERENCE STANDARD pH 7.000 (Color Coded Yellow)

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number:

1551, 1552, B-285, B017740, R1551300, S1551, SB017740

Product Identity:
BUFFER, REFERENCE STANDARD, pH 7.00; BUFFER, PRECISION REFERENCE STANDARD pH 7.000 (Color Coded Yellow)

Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	**Emergency Contact(24 hr) --** CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 0V553	
Address: 448 West Fork Dr Arlington, TX 76012	**Telephone Number For Information:** 817-461-5601
Date Prepared: 6/16/98	**Revision:** 7 Last Revised: 01/13/2006 Date Printed: 03/07/2006 9:31:07 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Sodium Phosphate, Dibasic	7558-79-4	< 1	Not Available Not Available	Not Available Not Available
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available
Potassium Phosphate, Monobasic	7778-77-0	< 1	Not Available Not Available	Not Available Not Available
Inert Dye	proprietary	< 0.1	Not Available Not Available	Not Available Not Available
Preservative (No Mercury compounds or Formaldehyde)	pROPRIETARY	< 0.1	Not Available Not Available	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards. May cause irritation. Wash areas of contact with water

Target Organs: eyes, skin

Eye Contact: May cause slight irritation.

Inhalation: May cause allergic respiratory reaction to those allergic to phosphates.

Skin Contact: May cause slight irritation to those allergic to phosphates.

Ingestion: Large doses may cause stomach upset.

Chronic Effects/Carcinogenicity: None

IARC - No.

NTP - No.

OSHA - No.

Reproductive Information: Not Applicable.

Teratology (Birth Defect) Information: Not Applicable.

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute with water or milk. Call a physician if necessary.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Absorb with suitable material (vermiculite, clay, etc.) and dispose of in accordance with local regulations.
Check with local agencies for the proper disposal of phosphate containing solutions.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, Yellow Liquid

Odor: Odorless

Solubility in Water: Inifinite

Specific Gravity: Approximately 1

pH: 7

Boiling Point(°C): Approximately 100

Melting Point(°C): Approximately 0

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: None identified.

Hazardous Decomposition Products: Phosphorus oxides may form when heated to decomposition
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: (Sodium Phosphate Dibasic) 17 gm/kg; LD50, Dermal, Rabbit: (Potassium Phosphate Monobasic) >4640 mg/kg; details of toxic effects not reported other than lethal dose value.

Section 12. Ecological Information

Ecotoxicological Information: No information found
Chemical Fate Information: No information found

Section 13. Disposal Considerations

Dilute with water, then flush to sewer if local regulations allow for the flushing of phosphate containing solutions. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.
TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.
Section 311/312 Hazardous Catagories: No
Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.
Pennsylvania: Sodium Phosphate, Dibasic is listed as an Environmental Hazard on the state's Hazardous Substances List.
RCRA Status: Not Applicable.
CERCLA Reportable Quantity: Sodium Phosphate, Dibasic - 5,000 pounds.

WHMIS: Not Applicable.

Section 16. Other Information

NFPA Ratings:

Health: 1	Flammability: 0	Reactivity: 0	Special Notice Key:None

HMIS Ratings:

Health: 1	Flammability: 0	Reactivity: 0	Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 10-19-98: (Section 16) Removed periods from NFPA and HMIS, Added® to HMIS;
Rev 2, 3-8-2000: Reformatted from WordPerfect® to Microsoft Word®, (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300, (Section 3) Added “May cause…water.” in emergency overview, (Section 7) added storage code, (Section 10) added decomposition products, (Section 11) added toxicological data, (Section 15) added Pennsylvania listing.
Rev 3, 8-25-2000: (Section 2) corrected concentration of preservative from 1 - 2 to < 0.1%.
Rev 4, 10-09-2001: Reformatted to electronic data format.
Rev 5, 04-25-2003: (Section 1) added Solutions Plus catalog number B017740.
Rev 6, 04-01-2004: (Section 1) added catalog number S1551.
Rev 7, 01-13-2006: (Section 1) added catalog number R1551300.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

OSBORN INTERNATIONAL
5401 HAMILTON AVE.
CLEVELAND; 44114
USA

PRODUCT: 1515-01-002 76210 DRY GRAPHITE LUBRICANT 290G(10.25OZ)

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER	MANUFACTURED FOR: OSBORN INTERNATIONAL 5401 HAMILTON AVE. CLEVELAND USA 44114 216-361-1900
PRODUCT NAME	1515-01-002 76210 DRY GRAPHITE LUBRICANT 290G(10.25OZ)
CHEMICAL FAMILY	GRAPHITE.
MOLECULAR WEIGHT	NOT APPLICABLE.
CHEMICAL FORMULA	MIXTURE.
TRADE NAMES & SYNONYMS	1515-01-002 76210 DRY GRAPHITE LUBRICANT 290G(10.25OZ)
PRODUCT USES	COATING.
FORMULA/LAB BOOK #	F 01-040.

Section 02: COMPOSITION/INFORMATION INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route,Species	LC/50 Route,Species
ACETONE	30-60	750 ppm	67-64-1	>9750 mg/kg ORAL - RAT	>16,000 ppm (4 hr) INHAL - RAT
HEXANE	10-30	50 ppm	110-54-3	17,300 mg/kg ORAL-RAT	48,000 mg/kg INHAL-MOUSE
ISOPROPANOL	5-10	400 ppm	67-63-0	>4720 mg/kg ORAL - RAT	12000 ppm (8hr) INHAL - RAT
GRAPHITE POWDER	1-5	2.5mg/m3	7782-42-5	NOT AVAILABLE	NOT AVAILABLE
ISOBUTANE	5 -10	1000 ppm	75-28-5	NOT APPLICABLE	142,500 ppm (4h) INHAL - RAT
PROPANE	10-30	1000 ppm	74-98-6	NOT APPLICABLE	NOT AVAILABLE

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:

INGESTION	MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.
INHALATION	INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIANT.
EYE CONTACT	MAY CAUSE IRRITATION.
SKIN ABSORPTION	NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.
SKIN CONTACT	MAY CAUSE IRRITATION.
EFFECTS OF ACUTE EXPOSURE	DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES.
EFFECTS OF CHRONIC EXPOSURE	SOLVENTS MAY CAUSE DEFATTING DERMATITIS .
EXPOSURE LIMIT OF MATERIAL	SEE SECTION 2.

Section 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE	IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

Section 05: FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE (°C)	225-465.
SPECIAL PROCEDURES	WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARTATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.
FLAMMABILITY	EXTREMELY FLAMMABLE.
IF YES, UNDER WHICH CONDITIONS?	EXCESSIVE HEAT, SPARKS AND OPEN FLAME.
EXTINGUISHING MEDIA	WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.
UPPER FLAMMABLE LIMIT (% BY VOLUME)	12.8.
LOWER FLAMMABLE LIMIT (% BY VOLUME)	1.2.
FLASH POINT (C), TAG CLOSED CUP	LOWEST KNOWN VALUE IS ACETONE @ -18C.
EXPLOSION DATA	
SENSITIVITY TO STATIC DISCHARGE	NOT APPLICABLE.
SENSITIVITY TO IMPACT	NOT APPLICABLE.

PRODUCT: 1515-01-002 76210 DRY GRAPHITE LUBRICANT 290G(10.25OZ)

Section 05: FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS	HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
AEROSOL FLAME PROJECTION CLASSIFIED AS:	>15cm BUT <100cm.
FLASHBACK	NONE.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL	REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.

Section 07: HANDLING AND STORAGE

STORAGE NEEDS	KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
ENGINEERING CONTROLS	VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).
HANDLING PROCEDURES AND EQUIPMENT	STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.
SYNERGISTIC MATERIALS	NONE KNOWN.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE	WEAR CHEMICAL RESISTANT GLOVES.
RESPIRATORY/TYPE	IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED.
EYE/TYPE	SAFETY GLASSES.
FOOTWEAR/TYPE	NOT NORMALLY REQUIRED.
OTHER/TYPE	NOT REQUIRED.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	AEROSOL.
APPEARANCE	BLACK/GREY.
ODOR	KETONE.
ODOR THRESHOLD	NOT AVAILABLE.
VAPOUR PRESSURE(PSIG)-AEROSOL @ 20 C	50-60.
BOILING POINT (°C)(CONC)	57-69.
EVAPORATION RATE n-BUTYL ACETATE = 1	GREATER THAN 1.
VAPOUR DENSITY (AIR=1) (BY WEIGHT)	GREATER THAN 1.
SOLUBILITY IN WATER g/L (20°C)	NOT AVAILABLE.
pH	NOT APPLICABLE.
SPECIFIC GRAVITY (LIQUID)	0.75-0.82.
COEFFICIENT OF WATER\OIL DIST	NOT AVAILABLE.
FREEZING POINT: (°C)	NOT AVAILABLE.
AEROSOL PERCENT VOLATILE (BY WEIGHT).	97-98.
SPECIFIC GRAVITY (AEROSOL)	0.66-0.70.

Section 10: STABILITY AND REACTIVITY

HAZARDOUS PRODUCTS OF DECOMPOSITION	HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
CHEMICAL STABILITY:	
YES	UNDER NORMAL CONDITIONS.
NO, WHICH CONDITIONS?	NOT APPLICABLE.
COMPATIBILITY WITH OTHER SUBSTANCES:	
NO, WHICH ONES?	STRONG OXIDIZING AGENTS.
REACTIVITY CONDITIONS?	NOT APPLICABLE.
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR.

Section 11: TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS	NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.
IRRITANCY OF MATERIAL	SKIN/EYE IRRITANT. N-HEXANE MAY DAMAGE PERIPHERAL NERVE TISSUE.
SENSITIZING CAPABILITY OF MATERIAL	UNKNOWN.
CARCINOGENICITY OF MATERIAL	THE INGREDIENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, (NATIONAL TOXICOLOGY PROGRAM), NOT REGULATED AS CARCINOGENS BY OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND HAVE NOT BEEN EVALUATED BY IARC,(INTERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOR BY ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS).
TERATOGENICITY	NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.
MUTAGENICITY	NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.

PRODUCT: 1515-01-002 76210 DRY GRAPHITE LUBRICANT 290G(10.25OZ)

Section 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL..... NOT AVAILABLE.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

Section 14: TRANSPORTATION INFORMATION

T.D.G. CLASSIFICATION..... CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1) .
D.O.T. CLASSIFICATION..... CONSUMER COMMODITY, ORM-D.

Section 15: REGULATORY INFORMATION

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION..... A,B5,D2B.
CNFC SECTION 3.3.5..... LEVEL 3.
CEPA (Canadian Enviromental Protection Act) ALL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL) OR ARE NOT REQUIRED TO BE LISTED.

U.S. REGULATIONS:

HMIS RATING HEALTH..... 2 MODERATE HAZARD.
HMIS RATING FLAMMABILITY..... 4 SEVERE HAZARD.
HMIS RATING REACTIVITY..... 0 MINIMAL HAZARD.
HMIS RATING PERSONAL PROTECTION..... B.
NFPA CODE 30B..... LEVEL 3.
SARA 313 INFORMATION:..... THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372: .
CAS #: CHEMICAL NAME: .
*110-54-3 N-HEXANE.
CALIFORNIA PROPOSITION 65:..... THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986: .
WARNING: THIS PRODUCT DOES NOT INTENTIONALLY CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
. CAS #: CHEMICAL NAME:
. N/A.
TSCA (Toxic Substances Control Act)..... ALL COMPONENT OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.
VOC (w/w%)..... 58-59.

Section 16: OTHER INFORMATION

NOTICE FROM KG PACKAGING INC ..... THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET IS PROVIDED BY K-G PACKAGING INC. FREE OF CHARGE. WHILE BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK. K-G PACKAGING INC. ASSUMES NO RESPONSIBILITY FOR EVENTS RESULTING OR DAMAGES INCURRED FROM ITS USE. THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS.
PREPARED BY..... TECHNICAL SERVICES
PREPARATION DATE Jun11/07

MATERIAL SAFETY DATA

PRODUCT NAME: 4" & 10" Glue Sticks **HMIS CODES: H F R P**
PRODUCT CODE: 10-701 & 10-801 **0 0 0 B**

SECTION 1 - MANUFACTURER IDENTIFICATION
MANUFACTURER'S NAME: **ROBERTS CONSOLIDATED INDUSTRIES, INC.**
ADDRESS: 2501 Lakeview Drive, Mexico, MO 65265
EMERGENCY PHONE: (800)424-9300 (Chemtrec) **INFORMATION PHONE:** (905) 791-4444
DATE REVISED: 09/01/01 **NAME OF PREPARER:** Peter Sharko

SECTION 11 - **HAZARDOUS INGREDIENTS/SARA 111 INFORMATION**

No reportable quantities of hazardous ingredients are present per OSHA regulation: 29 CFR 1910-1200.
No toxic chemical(s) subject to the reporting requirements of Section 313 of Title 111 and of 40 CFR 372 are present.

SECTION 111 - PHYSICAL/CHEMICAL CHARACTERISTICS
BOILING POINT: N/A **SPECIFIC GRAVITY** (H20=1): .9
VAPOR DENSITY: N/A **EVAPORATION RATE:** Slower than ether
COATING V.O.C.: N/A **pH:** Neutral
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: Transparent Solid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA
FLASH POINT: N/A **METHOD USED:** N/A
FLAMMABLE LIMITS IN AIR BY VOLUME - **LOWER:** N/A **UPPER:** N/A
EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical
SPECIFIC FIREFIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V - REACTIVITY DATA
STABILITY: Stable **CONDITIONS TO AVOID:** Excessive Heat
INCOMPATIBILITY: (Materials to avoid): Strong oxidizers.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Combustion products.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI - HEALTH HAZARD DATA
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: None
SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Molten material will cause skin burns.
SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: None
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Not likely to occur. Should it occur potential G.I. Blockage.
HEALTH HAZARDS (Acute and Chronic): **ACUTE:** None **CHRONIC:** None
CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No **OSHA REGULATED?** No
This product contains **no carcinogens** as listed by NTP, IARC and OSHA
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.
EMERGENCY AND FIRST AID PROCEDURES:
EYES: N/A
SKIN: N/A
INGESTION: N/A

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain for salvage or disposal.
WASTE DISPOSAL METHOD: Discarded material may be incinerated. Dispose according to Federal, State and local regulations.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep package from excessive heat. Keep out of reach of children.
OTHER PRECAUTIONS: None

SECTION VIII - CONTROL MEASURES
RESPIRATORY PROTECTION: None should be required. **PROTECTIVE GLOVES:** General purpose gloves to protect against burns.
VENTILATION: None should be required. **EYE PROTECTION:** None
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None
WORK/HYGIENE PRACTICES: Standard hygiene and safe handling procedures are believed to be generally applicable.

SECTION IX - DISCLAIMER
DISCLAIMER: The information accumulated herein is believed to be accurate, but is not warranted to be whether originating with the company or not. Each user should review and determine for themselves, the applicability of the information in the specific context of the intended use.

KEEP OUT OF REACH OF CHILDREN

Manufactured by: **ROBERTS CONSOLIDATED INDUSTRIES INC.**

American Lubricating Co
5OO SOUTH FRONT STREET * PO BOX 258
MEMPHIS, TN 38101 USA
www.americanlubricating.com
phone: 901 527 4707 fax: 901 525 7670

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME:
American Lubricating Company
ADDRESS:
PO Box 258, Memphis, TN 38101

PRODUCT NAME: No Smoke Two Stroke
2 Cycle Engine Oil
/Fuel Stabilizer
HAZARD MATERIAL ID SYSTEM: H-1 F-1 R-0 PP-B

SECTION 1 - DESCRIPTION

PRODUCT NAME: No Smoke Two Stroke Two Cycle Engine Oil w/Fuel Stabilizer
DOT SHIPPING NAME: N/A
DOT HAZARD CLASS: Non-Hazardous
CAS REGISTRY NUMBER: 64742-54-7 or 64742-65-0
CHEMICAL NAME: Petroleum lubricating oil and fuel additive containing a polyamine condensation product based dispersant and other component judged not to affect the potential health or environmental impact of the product, and <1% proprietary fuel stabilizer.
PREPARER: Chip Armstrong, October 2005

SECTION 2 - HAZARDOUS INGREDIENTS

COMPONENTS: Blend of mineral oil, light distillate solvent, and proprietary additives.

SECTION 3 - PHYSICAL DATA

BOILING POINT, DEG F: N/A
MELTING POINT, DEG F: N/A
SPECIFIC GRAVITY: 0.88
APPEARANCE: Dyed blue

VAPOR PRESSURE: negligible
VAPOR DENSITY: above 1
SOLUBILITY IN WATER: negligible
ODOR: mineral oil

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT, DEG F: 178
EXTINGUISHING MEDIUM: water fog, foam, dry chemical, carbon dioxide
SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool exposed containers
Fire fighting personnel should use respiratory protection.
UNUSUAL FIRE EXPLOSION HAZARDS: product of combustion includes fumes & CO2

SECTION 5 - REACTIVITY HAZARDS

STABILITY: stable
HAZARDOUS POLYMERIZATION: will not
HAZARDOUS DECOMPOSITION PRODUCTS: carbon monoxide upon combustion, fumes, smoke

MATERIAL TO AVOID: strong oxidizers
CONDITION TO AVOID: flame, extreme heat

SECTION 6 - HEALTH HAZARD INFORMATION

ROUTE OF ENTRY: X INHALATION X SKIN X INGESTION
ACUTE OVEREXPOSURE: may cause reversible eye and skin irritation; prolonged skin exposure may cause dermatitis; ingestion may cause cramps & diarrhea; breathing mists may cause dizziness
CHRONIC OVEREXPOSURE: defined by IARC as Class I mineral oil
CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM	IARC MONOGRAPHS	OSHA
__YES X NO	__ YES X NO	__ YES X NO

THRESHOLD LIMIT VALUE: 5-mg/cubic meter as mist
EMERGENCY AND FIRST AID: in all cases remove source of exposure

1. INHALATION: unlikely to occur except as mist
2. EYES: flush with water for at least 15 minutes or until irritation subsides
3. SKIN: wash well with soap and water; remove oil soaked clothing; wash clothes before reuse; if irritation develops, consult physician
4. INGESTION: DO NOT induce vomiting; consult physician; contains solvent

SECTION 7 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: normally not required with adequate ventilation; if exposure exceeds limits, use NIOSH/MSHA approved air respirator
VENTILATION: if mists are present, provide adequate ventilation to control level below the Permissible Exposure Limit
PROTECTIVE GLOVES: impermeable gloves EYE PROTECTION: goggles
OTHER: none usually required

SECTION 8 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

HANDLING & STORAGE PRECAUTIONS: Keep away from fire, flame & sparks
OTHER PRECAUTIONS: never wear oil soaked clothing; discard oil soaked shoes; affix proper warning labels on containers according to 29 CFR 1010.1200
IN CASE OF SPILLS: no unusual hazard; use pump and/or oil absorbent; keep from entering waterways and sewers
WASTE DISPOSAL METHODS: dispose according to current local, state and federal regulations; consider recycling; NOTE: material may become a hazardous waste through use

NOTE: The above information is based on data of which we are aware and is believed to be correct. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. American Lubricating Company, Inc. assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, we assume no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Section 1: Product And Company Identification

COMPANY: J/B INDUSTRIES INC.
LOCATION: 601 N. Farnsworth Ave.
Aurora, IL 60507

Emergency Telephone Number:
630/851-9444

PRODUCT NAME:
Vacuum Pump Oil

PRODUCT GRADES:

PRODUCT CODE:

DATE ISSUED:
December 28, 1992

DATE REVISED:
September 18, 2006

Section 2: Composition/ Information On Ingredients

CAS NAME:
Distillates, hydrotreated heavy paraffinic

CAS NUMBER:
64742-54-7

AMOUNT:
100% weight

This product is not approved for direct food use [CFR 178.3620 (a) & (b)]

Section 3: Hazards Identification

EMERGENCY OVERVIEW
Clear colorless to pale yellow liquid.

IMMEDIATE HEALTH EFFECTS
EYE:
Not expected to cause prolonged or significant eye irritation.

SKIN:
Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. Contact with the skin is not expected to cause an allergic skin response.

INGESTION:
Not expected to be harmful if swallowed.

INHALATION:
Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recomm ended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

Section 4: First Aid Measures

EYE:
No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution, remove contact lenses, if worn, and flush eyes with water.

SKIN:
No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

INGESTION:
No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

INHALATION:
No specific first aid measures are required because this material is not expected to be harmful if inhaled. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Section 5: Fire Fighting Measures

FIRE CLASSIFICATION;
OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS:

HEALTH	FLAMMABILITY	REACTIVITY
0	1	0

FLAMMABLE PROPERTIES:
FLASH POINT:
Cleveland Open Cup 378°F (190°C) (Min)

AUTOIGNITION:
No data available

FLAMMABLE (EXPLOSIVE) LIMITS (% by volume in air):
Lower N/A Upper N/A

EXTINGUISHING MEDIA:
Use water fog, foam, dry chemical or carbon dioxide (CO_2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions:
This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products:
Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

Section 6. Accidental Release Measures

PROTECTIVE MEASURES:
Eliminate all sources of ignition in vicinity of spilled material.

SPILL MANAGEMENT:
Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/ Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

REPORTING:
Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

Section 7. Handling and Storage

GENERAL HANDLING INFORMATION:
Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

STATIC HAZARD:
Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/ or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA

Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity; and /or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning and Stray Currents'.

CONTAINER WARNING:

Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

Section 8. Exposure Controls/ Personal Protection

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION:

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: Nitrile Rubber, Silver Shield, Viton.

RESPIRATORY PROTECTION:

No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Exposure Limit (PEL) of 5 mg/m^3 for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Section 9: Physical And Chemical Properties

APPEARANCE AND ODOR:

Clear colorless to pale yellow liquid.

PH:

Not Available

VAPOR PRESSURE:

<0.01 mmHg @ 100°F

VAPOR DENSITY (Air =1):

>1

BOILING POINT:

>600°F (>315° C)

SOLUBILITY:

Soluble in hydrocarbons, insoluble in water

FREEZING POINT

NA

MELTING POINT

NA

SPECIFIC GRAVITY:

0.85-0.87 @ 15.6 °C/15.6°C

VOLATILE ORGANIC COMPOUNDS (VOC):

2.9% weight (Approximate)

VISCOSITY:

18.7 cST - 105 cST @40°C

Section 10. Stability And Reactivity

CHEMICAL STABILITY:

This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS DECOMPOSITION PRODUCTS:

None known (None expected)

HAZARDOUS POLYMERIZATION:

Hazardous polymerization will not occur.

Section 11. Toxicological Information

IMMEDIATE HEALTH EFFECTS

EYE IRRITATION:

The mean 24-hour Draize eye irritation score in rabbits is 4.0/110.

SKIN IRRITATION:

For a 24-hour exposure, the Primary Irritation Score (PIS) in rabbits is: 0.2/8.0.

SKIN SENSITIZATION:

This material did not cause skin sensitization reactions in a Buehler guinea pig test.

ACUTE DERMAL TOXICITY:

The 24 hour(s) LD50 in the rabbit is >5g/kg.

ACUTE ORAL TOXICITY:

The LD50 in the rat is >5 g/kg.

ACUTE INHALATION TOXICITY:

The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

GENETIC TOXICITY:

This product gave negative results in the following mutagenicity assays: Microbial/Microsome Reverse Mutation Assay.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

Section 12. Ecological Information:

EXOTOXICITY

Ten 96 hour(s) LC50 for rainbow trout (Oncorhynchus mykiss) is >1000 mg/l.

ENVIRONMENTAL FATE

READY BIODEGRADABILITY:

This material is not expected to be readily biodegradable.

Section 13. Disposal Considerations

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent

with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recyling methods.

Section 14. Transportation Information

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME:

Not regulated as a hazardous material for transportation under 49 CFR

DOT HAZARD CLASS:

Not Applicable

DOT IDENTIFICATION NUMBER:

Not Applicable

DOT PACKING GROUP:

Not Applicable

Section 15. Regulatory Information

SARA 311/312 CATEGORIES:

1. Immediate (Acute) Health Effects: No
2. Delayed (Chronic) Health Effects: No
3. Fire Hazard: No
4. Sudden Release of Pressure Hazard: No
5. Reactivity Hazard: No

REGULATORY LISTS SEARCHED:

4_I1=IARC Group 1
4_I2A=IARC Group 2A
4_I28B=IARC Group 2B
05=NTP Carcinogen
06-OSHA Carcinogen
09-TSCA 12(b)
10=TSCA Section 4
11=TSCA Section 8(a) CAIR
12=TSCA Section 8(a) PAIR
13=TSCA Section 8(d)
15=SARA Section 313
16=CA Proposition 65
17=MA RTK
18=NJ RTK
19=DOT Marine Pollutant
20=PA RTK
21=TSCA Section 5(a)
25=CAA Section 112 HAPs
26=CWA Section 311
28=CWA Section 307
30=RCRA Waste P-List
31-RCRA Waste U-List
32=RCRA Appendix VIII

No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES:

AUSTRALIA: All the components of this material are listed on the Australian Inventory of Chemical Substances (AICS).

KOREA: All the components of this product are on the Existing Chemicals List (ECL) in Korea.

PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

CANADA: All the components of this material are on the Canadian Domestic Substances List (DSL).

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A.34:5A-1 et. seq., the product is to be indentified as follows: PETROLEUM OIL

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

Section 16. Other Information

NFPA RATINGS:

Health:	Flammability:	Reactivity:
0	1	0

HMIS RATINGS:

Health:	Flammability:	Reactivity
1	1	0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:-Personal Protection Equipment Index recommendation, *-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of it use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

WD-40 Company
Material Safety Data Sheet

1 - Chemical Product and Company Identification

Manufacturer: WD-40 Company	**Chemical Name: Organic Mixture**
Address: 1061 Cudahy Place (92110) P.O. Box 80607 San Diego, California, USA 92138 –0607	**Trade Name: WD-40 Aerosol** **Product Use: Cleaner, Lubricant, Penetrant**
Telephone: 1-800-448-9340 Emergency only: 1-888-324-7596 (PROZAR) Information: 1-888-324-7596	**MSDS Date Of Preparation: 5/16/07**

2 – Hazards Identification

Emergency Overview:
DANGER! Harmful of fatal if swallowed. Flammable aerosol. Contents under pressure. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.

Symptoms of Overexposure:
Inhalation: High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.
Skin Contact: Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.
Eye Contact: Contact may be mildly irritating to eyes. May cause redness and tearing.
Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. The liquid contents are an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis.
Chronic Effects: None expected.
Medical Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

Suspected Cancer Agent:
Yes No X

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent
Aliphatic Hydrocarbon	64742-47-8 64742-48-9 64742-88-7	45-50
Petroleum Base Oil	64742-65-0	15-25
LVP Aliphatic Hydrocarbon	64742-47-8	12-18
Carbon Dioxide	124-38-9	2-3
Non-Hazardous Ingredients	Mixture	<10

4 – First Aid Measures

Ingestion (Swallowed): Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.
Eye Contact: Flush thoroughly with water. Get medical attention if irritation persists.
Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention.

Inhalation (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

5 – Fire Fighting Measures

Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.
Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.
Unusual Fire and Explosion Hazards: Contents under pressure. Aerosol containers may burst under fire conditions. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

6 – Accidental Release Measures

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7 – Handling and Storage

Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Do not puncture or incinerate containers. Keep can away from electrical current or battery terminals. Electrical arcing can cause burn-through (puncture) which may result in flash fire, causing serious injury. Keep out of the reach of children.
Storage: Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol.

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
Aliphatic Hydrocarbon	100 ppm TWA (ACGIH) 1200 mg/m3 TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m3 TWA (OSHA/ACGIH)
LVP Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Carbon Dioxide	5000 ppm TWA (OSHA/ACGIH), 30,000 ppm STEL (ACGIH)
Non-Hazardous Ingredients	None Established

The Following Controls are Recommended for Normal Consumer Use of this Product
Engineering Controls: Use in a well-ventilated area.
Personal Protection:
Eye Protection: Avoid eye contact. Safety glasses or goggles recommended.
Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.
Respiratory Protection: None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended
Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.
Personal Protection:
Eye Protection: Safety goggles recommended where eye contact is possible.
Skin Protection: Wear chemical resistant gloves.
Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be

based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.
Work/Hygiene Practices: Wash with soap and water after handling.

9 – Physical and Chemical Properties

Boiling Point:	323°F (minimum)	Specific Gravity:	0.817 @ 72°F
Solubility in Water:	Insoluble	pH:	Not Applicable
Vapor Pressure:	110 PSI @ 70°F	Vapor Density:	Greater than 1
Percent Volatile:	74%	VOC:	412 grams/liter (49.5%)
Coefficient of Water/Oil Distribution:	Not Determined	Appearance/Odor	Light amber liquid/mild odor
Flash Point:	131°F (concentrate) Tag Closed Cup	Flammable Limits: (Solvent Portion)	LEL: 1.1% UE:: 8.9%

10 – Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.
Incompatibilities: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11 – Toxicological Information

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.
None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

12 – Ecological Information

No data is currently available.

13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

14 – Transportation Information_

DOT Surface Shipping Description: Consumer Commodity, ORM-D
IMDG Shipping Description: Aerosols, 2, UN1950

15 – Regulatory Information

U.S. Federal Regulations:
CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.
SARA TITLE III:
Hazard Category For Section 311/312: Acute Health, Fire Hazard, Sudden Release of Pressure

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None
Section 302 Extremely Hazardous Substances (TPQ): None
EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory
Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification
Canadian WHMIS Classification: Class B-5 (Flammable Aerosol)
This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

16 – Other Information:

HMIS Hazard Rating:
Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Reactivity – 0 (minimal hazard)

SIGNATURE: Peter P. Lyon TITLE: Director of Global Quality Assurance

REVISION DATE: Revision Date: May 2007 SUPERSEDES: December 2004

Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M 16-102 QUICK DRYING CONTACT CLEANER
MANUFACTURER: 3M
DIVISION: Electrical Markets Division

ADDRESS: 3M Center
St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 12/05/2005
Supercedes Date: 08/15/2002

Document Group: 08-0837-8

Product Use:

Intended Use:	ELECTRICAL CONTACT CLEANER, QUICK DRYING AEROSOL
Limitations on Use:	AVOID HEAT,FLAME, SPARKS AND LIVE ELECTRICAL POWER.
Specific Use:	QUICK DRYING CONTACT CLEANER

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
HEPTANE	142-82-5	45 - 55
ETHYL ALCOHOL	64-17-5	3 - 12
ISOPROPYL ALCOHOL	67-63-0	6 - 12
CYCLOHEXANE	110-82-7	2 - 10
PROPANE	74-98-6	20

Minute quantities of the substances listed below may be emitted during Normal Use:

Substance	Condition
Hydrocarbons	Normal Use

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Compressed Gas
Odor, Color, Grade: hydrocarbon odor, clear.

General Physical Form: Liquid
Immediate health, physical, and environmental hazards: Flammable liquefied gas. Aerosol container contains flammable gas under pressure. Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains flammable material under pressure. May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:
Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

May be absorbed through skin and cause target organ effects.

Inhalation:
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Intentional concentration and inhalation may be harmful or fatal.

May be absorbed following inhalation and cause target organ effects.

Ingestion:
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects:
Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:
NOTE: This product contains ethanol. In IARC published Monograph No. 44, entitled, "Alcohol Drinking", the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

Ingredient	C.A.S. No.	Class Description	Regulation
ETHYL ALCOHOL	64-17-5	Group 1	International Agency for Research on Cancer

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

The KOWWIN program estimates Log Pow, the logarithm of the octanol-water partition coefficient, Pow. Log Pow is a physical property used to describe a substance's lipophilic or hydrophobic properties. Syracuse Research Corporation developed the KOWWIN program. The components labeled "Highly volatile" are expected to be rapidly removed from the aquatic and terrestrial compartments by vaporization. The high potential of this substance to move from water to the atmosphere means its toxicity is likely to disappear rapidly from aerobic environments. The components labeled "readily biodegradable" are expected to fully degrade in wastewater treatment and in most aerobic water or soil environments. Tests that strongly promote biodegradation show that the components labeled "inherently biodegradable" underwent >20% biodegradation but may not fully biodegrade. There is insufficient component information to calculate the ecotoxicity of this product. The components labeled "Log Kow <3" have measured or calculated log Kow values <3 indicating they are unlikely to bioconcentrate to high concentrations in aquatic organisms by partitioning into lipid tissues. The components labeled "Log Kow > or = 3" have measured or calculated log Kow values of > or = 3 indicating they have a potential to bioconcentrate to high concentrations in aquatic organisms by partitioning into lipid tissues. Labelled Components: Readily Biodegradable - Heptane (110-54-3), Ethyl Alcohol (64-17-5);
Highly Volatile - Isopropyl Alcohol (67-63-0);
Inherently biodegradable - Cyclohexane (110-82-7)
Log Kow < 3: Isopropyl Alcohol (67-63-0); Ethyl Alcohol (64-17-5); Propane (74-98-6)
Log Kow > 3: Heptane (110-54-3); Cyclohexane (110-82-7)

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	*No Data Available*
Flash Point	<=0 ºF
Flammable Limits - LEL	1.1 % volume
Flammable Limits - UEL	19.0 % volume
OSHA Flammability Classification:	Class IB Flammable Liquid

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide). If water is used, fog nozzles are preferred. Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to

extreme heat.

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Flammable liquefied gas. Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains flammable material under pressure.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Contents may be under pressure, open carefully. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Do not pierce or burn container, even after use. Do not spray near flames or sources of ignition. Aerosol container contains flammable gas under pressure. Avoid breathing of airborne material. Avoid static discharge. Avoid eye contact with vapors, mists, or spray. For industrial or professional use only. Avoid contact with oxidizing agents.

7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area. Keep container tightly closed. Store away from oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.
The following eye protection(s) are recommended: Indirect Vented Goggles.

8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.
Gloves made from the following material(s) are recommended: Fluoroelastomer (Viton).

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.
Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface pressure demand self-contained breathing apparatus. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

Ingredient	Authority	Type	Limit	Additional Information
CYCLOHEXANE	ACGIH	TWA	100 ppm	
CYCLOHEXANE	OSHA	TWA	300 ppm	Table Z-1
ETHYL ALCOHOL	ACGIH	TWA	1000 ppm	Table A4
ETHYL ALCOHOL	OSHA	TWA	1000 ppm	Table Z-1
HEPTANE	ACGIH	TWA	400 ppm	
HEPTANE	ACGIH	STEL	500 ppm	
HEPTANE	OSHA	TWA, Vacated	400 ppm	
HEPTANE	OSHA	TWA	500 ppm	Table Z-1
HEPTANE	OSHA	STEL, Vacated	500 ppm	
ISOPROPYL ALCOHOL	ACGIH	TWA	200 ppm	Table A4
ISOPROPYL ALCOHOL	ACGIH	STEL	400 ppm	Table A4
ISOPROPYL ALCOHOL	OSHA	TWA	400 ppm	Table Z-1A
ISOPROPYL ALCOHOL	OSHA	STEL	500 ppm	Table Z-1A
PROPANE	ACGIH	TWA	1000 ppm	
PROPANE	OSHA	TWA	1000 ppm	Table Z-1

VAC Vacated PEL:Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:
ACGIH: American Conference of Governmental Industrial Hygienists
CMRG: Chemical Manufacturer Recommended Guideline
OSHA: Occupational Safety and Health Administration
AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Compressed Gas
Odor, Color, Grade:	hydrocarbon odor, clear.
General Physical Form:	Liquid
Autoignition temperature	*No Data Available*
Flash Point	<=0 ºF
Flammable Limits - LEL	1.1 % volume
Flammable Limits - UEL	19.0 % volume
Boiling point	0 - 212 ºF
Vapor Density	>=1 [*Ref Std:* AIR=1]
Vapor Pressure	33 - 760 mmHg
Specific Gravity	0.67 [*Ref Std:* WATER=1]
pH	*No Data Available*
Melting point	*Not Applicable*
Solubility In Water	Approximately 20 % weight
Evaporation rate	>=1 [*Ref Std:* ETHER=1]
Volatile Organic Compounds	100 % weight
Percent volatile	100 % volume
VOC Less H2O & Exempt Solvents	670 g/l
Viscosity	*No Data Available*

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Sparks and/or flames; Heat; Strong oxidizing agents; ***Missing Data -Materials/Condition to Avoid***

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance	Condition
Acetic Acid	Oxidative Degradation
Aldehydes	Heat
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

See Section 3.3

CHEMICAL FATE INFORMATION

See Section 3.3

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill.
As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14:TRANSPORT INFORMATION

ID Number(s):
80-6109-2788-3

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:
Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	% by Wt
CYCLOHEXANE	110-82-7	2 - 10

This material contains a chemical which requires export notification under TSCA Section 12[b]:

Ingredient (Category if applicable)	C.A.S. No	Regulation	Status

CYCLOHEXANE	110-82-7	Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals	Applicable
HEPTANE	142-82-5	Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals	Applicable

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

WHMIS: Hazardous

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 2 **Flammability:** 4 **Reactivity:** 0 **Special Hazards:** None
Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 2 **Flammability:** 4 **Reactivity:** 0 **Protection:** A

Hazardous Material Identification System (HMIS(r)) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS(r) ratings are to be used with a fully implemented HMIS(r) program. HMIS(r) is a registered mark of the National Paint and Coatings Association (NPCA).

Reason for Reissue: Update to new format.

Revision Changes:
Section 16: NFPA hazard classification heading was modified.
Section 16: HMIS hazard classification heading was modified.
Section 16: NFPA hazard classification for health was modified.
Section 3: Carcinogenicity heading was modified.
Section 3: Potential environmental effects heading was modified.
Section 3: Other potential health effects heading was modified.
Section 1: Division name was modified.
Section 2: Normal use heading was modified.
Copyright was modified.
Section 8: Exposure guidelines data source legend was modified.
Section 3: Immediate physical hazard(s) was modified.
Section 3: Potential effects from eye contact was modified.
Section 3: Potential effects from skin contact information was modified.
Section 3: Potential effects from inhalation information was modified.
Section 3: Potential effects from ingestion information was modified.
Section 3: Potential environmental effects information was modified.
Section 5: Fire fighting procedures information was modified.
Section 5: Unusual fire and explosion hazard information was modified.
Section 7: Handling information was modified.
Section 7: Storage information was modified.
Section 8: Engineering controls information was modified.
Section 8: Eye/face protection phrase was modified.
Section 8: Respiratory protection - recommended respirators information was modified.
Section 15: 311/312 hazard categories heading was modified.
Section 15: International regulations information was modified.
Section 15: State regulations information was modified.
Section 15: US federal regulations information was modified.
Section 4: First aid for skin contact - decontamination - was modified.
Section 4: First aid for skin contact - medical assistance - was modified.
Section 4: First aid for ingestion (swallowing) - decontamination - was modified.
Section 4: First aid for ingestion (swallowing) - medical assistance - was modified.
Section 10: Hazardous polymerization heading was modified.
Section 3: Carcinogenicity phrase was modified.
Section 3: Immediate other hazard(s) was modified.
Section 2: Ingredient table was modified.
Section 15: TSCA section 12[b] text was modified.
Section 3: Other health effects information was modified.
Section 16: HMIS explanation was modified.
Section 16: NFPA explanation was modified.
Section 15: Inventories information was modified.
Section 15: EPCRA 313 text was modified.
Section 12: Ecotoxicological information heading was modified.
Section 12: Chemical fate information heading was modified.
Section 8: Exposure guidelines ingredient information was modified.
Section 8: Exposure guidelines legend was modified.
Section 9: Property description for optional properties was modified.
Section 16: NFPA hazard classification for special hazards was modified.
Section 16: NFPA hazard classification for aerosol storage was modified.
Section 15: TSCA section 12[b] information was modified.
Section 16: Reason for reissue comment was added.
Section 15: WHMIS regulations heading was added.
Section 15: WHMIS regulations information was added.

Section 4: First aid for skin contact - termination of exposure - was added.
Section 4: First aid for skin contact - handling - was added.
Section 2: Ingredient phrase was added.
Section 3: Other health effects information (reproductive hazards) was added.
Section 16: Reason for reissue heading was added.
Section 12: Ecotoxicological information comment was added.
Section 12: Chemical Fate information comment was added.
Section 12: Ecotoxicological ecotox article information was deleted.
Section 12: Ecotoxicological ecofate information was deleted.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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3M MSDSs are available at www.3M.com

MSDS Material Safety Data Sheet
The Blaster Corporation

PB Penetrating Catalyst

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: PB Penetrating Catalyst
Revision Date: 10/16/07
MSDS Number: PB - Aerosol
Common Name: PB Blaster
Product Code: 16-PB, 8-PB, 8-PBS, PBTS, 20-PB, 26-PB

Manufacturer: The Blaster Chemical Companies, Inc.
8500 Sweet Valley Drive
Valley View, Ohio 44125

(216) 901-5800
(216) 901-5801 fax
www.blasterproducts.com

24 Hour emergency contact: Chemtrec (800) 424-9300

2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	Percent	Exposure Limits
Alkyloxypolyethyleneoxyethanol	68131-40-8	0-3%	OSHA (TWA)- N/E ACGIH (TLV)- N/E
Solvent Naphtha, Heavy Aromatic**	64742-94-5	40-50%	OSHA (TWA)- N/E ACGIH (TWA)- N/E
Heavy Petroleum Distillate	64742-65-0	20-30%	OSHA (TWA)-N/E ACGIH (TLV)- N/E
Hydrotreated Light Distillate	64742-47-8	30-40%	OSHA (TWA)- N/E ACGIH (PEL)- 500 ppm

*Denotes chemical is subject to the reporting requirements of SECTION 313 of Title III of the 1986 Super fund Amendments and Reauthorization Act (SARA) and 40 CFR PART 372.
** Aromatic Naphtha contains 1-7 % Naphthalene (91-20-3) and 0-1% Pseudocumene (95-63-6)

3 HAZARDS IDENTIFICATION

Route of Entry: Eyes, skin, inhalation, ingestion
Target Organs:
Inhalation: Inhalation of spray mist may cause irritation to the respiratory tract.
Skin Contact: Repeated or prolonged contact with skin may cause mild irritation and possibly dermatitis.
Eye Contact: Likely to cause immediate or delayed irritaion. Irritation will show as redness and/or swelling of the eyes.
Ingestion: Ingestion may cause irritation to the mouth, esophagus and stomach.

May aggravate pre-existing skin and respiratory disorders.

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

4 FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Continue to monitor. Get medical attention.

Skin Contact: Remove contaminated clothing immediately! Wash skin with soap and water. If irritation develops, seek medical attention.

Eye Contact: Flush eye(s) with water for 15 minutes. Get medical attention. If eye irritation persists, obtain medical treatment.

Ingestion: Do not induce vomiting! Get medical attention immediately!

5 FIRE FIGHTING MEASURES

Flash point: 155°F ASTM D-56 (TCC)

Extinguishing Media: Dry chemical, carbon dioxide or foam is recommended. Water may be ineffective for extinguishment, but can be useful in minimizing or dispersing vapors, protecting personnel and cooling containers. If containers are not properly cooled they can rupture in the heat of a fire. Avoid spreading burning liquid with water used for cooling purposes.

Unusual Fire & Explosion Hazards: Level 3 Aerosols - Contents Under Pressure!

6 ACCIDENTAL RELEASE MEASURES

Leaking aerosol cans should be put into suitable container until the internal pressure has dissipated. Use suitable absorbents to collect liquid product. Consult regulations for the disposal of the container, liquid and absorbents.

7 HANDLING AND STORAGE

Handling Precautions: Use in accordance with good industrial workplace practices. Avoid unnecessary contact. Wash thoroughly after handling. Use with good ventilation.

Storage Requirements: Store in a dry place away from excessive heat. Store containers with lids on and properly labeled.

Do not store at temperatures above 120 degrees F.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eye wash stations and emergency showers should be immediately available.

Protective Equipment:

Eyes and Face: Standard safety glasses with splash shields typically offer adequate protection. Where excessive splashing or spraying is possible, a face shield should be used.

Skin and clothing: Excessive contact should be avoided. Neoprene gloves, boots and aprons will provide adequate protection when contact cannot be avoided. Remove and wash any contaminated clothing immediately. Wash thoroughly after handling.

Respiratory: Good general ventilation should be sufficient to control airborne levels. Maintain airborne concentrations below OSHA established exposure limits of ingredients in Section 2.

Exposure Guidelines/Other: The Blaster Chemical Companies takes no responsibility for determining what measures are required for personal protection in any specific application. This information should be used with discretion.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Orange viscous oily		
Physical State:	Liquid	**Boiling Point:**	352 F
Odor:	Heavy aromatic	**Freezing/Melting Pt.:**	Not determined
pH:	Not determined	**Solubility:**	nil
Vapor Pressure:	Not determined	**Spec Grav./Density:**	0.87 (water = 1)
Vapor Density:	>1 (air = 1)		

Heat Value:	Not determined
VOC:	Not determined
Evap. Rate:	<1 (NBA = 1)
Bulk Density:	Not determined
Octanol:	Not applicable
Molecular Weight:	Not determined
Particle Size:	Not applicable
Softening Point:	Not applicable
Viscosity:	Not determined
Percent Volatile:	Not determined
Sat. Vap. Concentrat.:	Not determined
Molecular Formula:	Not determined

10 STABILITY AND REACTIVITY

Stability:	This product is stable.
Conditions to avoid:	Avoid excessive heat, sources of ingition and excessive water.
Materials to avoid (incompatability):	Avoid contact with strong oxidizing agents and strong reducing agents (strong acids or bases.) Avoid mixture with water.
Hazardous Decomposition products:	Carbon monoxide, carbon dioxide, and various hydrocarbons.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Toxicological information on this product as a mixture has not been determined. See section 15 for reportable ingredients.

12 ECOLOGICAL INFORMATION

Ecological information on this product as a mixture has not been determined.

13 DISPOSAL CONSIDERATIONS

Used or unused product should be disposed of in accordance with local, state, and federal regulations. Some special regulations may exists for the disposal of empty aerosol containers.

Empty containers may contain residual pressure and contents. They should be handled with the same precautions as the product.

14 TRANSPORT INFORMATION

Dept. of Transportation (DOT):

This product, as it leaves Blaster's facilities, meets the definitions set forth in CFR 49 part 173.150c as a "consumer commodity." Allowing for certain exceptions (173.156) for domestic surface (ground) shipments.

Proper shipping name: Consumer Commodity
Hazard class: ORM-D

International (IMDT-IATA):

Proper shipping name: Aerosols, Limited Quantities
Hazard class: 2 Flammable Compressed Gas
UN Number: 1950

15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742650 40-60%) NJHS

*Carbon dioxide (propellant) (124389 0-3%) MASS, OSHAWAC, PA, TXAIR

REGULATORY KEY: DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TXAIR = TX Air Contaminants with Health Effects Screening Level

16 OTHER INFORMATION

Manufacturer's Disclaimer:
To the best of our knowledge the information contained herein is accurate. However, neither The Blaster Chemical Companies nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists.

HMIS Ratings:		NFPA Ratings:	
Health:	2	Health:	2
Fire:	2	Fire:	2
Reactivity:	0	Reactivity:	0

END OF MSDS DOCUMENT

MATERIAL SAFETY DATA SHEET

1. MANUFACTURER / PRODUCT IDENTIFICATION

Product Identification
Product Name: Faultless® Rust Buster
Product Number: 16800

Company Identification
Faultless Starch / Bon Ami Co.
1025 W 8th Street
Kansas City, MO 64101
1-816-842-1230 (For product information)
1-800-424-9300 or 1-703-527-3887 (For emergencies)

Reason For Issue...: Update emergency contact
Prepared By.....: Bill Wood
Approved By.....: Bill Wood
Title.....: Technical Director
Approval Date.....: June 29, 2007
Supercedes Date....: October 14, 2004
MSDS Number.....: 16800
RTN Number.....: 00016800 (Official Copy)

****************** EMERGENCY OVERVIEW ******************
*****
*** May Cause Chemical Burns. ***
*****
****

NFPA Rating:
Health - 3, Flammability - 0, Reactivity - 0

2. HAZARDOUS INGREDIENTS

Chemical Name	Amount	CAS Number
INGREDIENTS ARE PROPRIETARY	Confidential	

COMPOSITION COMMENT:
The ingredients in this product are considered proprietary. In case of emergency, contact Info Trac. 1-800-535-5053.

EXPOSURE GUIDELINES:
No Information Available.

3. PHYSICAL / CHEMICAL CHARACTERISTICS

FORM	Liquid
COLOR	Clear
ODOR	acid
BOILING POINT	>200 F
VAPOR PRESSURE	<0.01 mm Hg
SOLUBILITY IN WATER	Complete
SPECIFIC GRAVITY	1.038 (Water = 1)
BULK DENSITY	8.659 lb/gl
PH	4.5 (1% solution in water)

4. FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE PROPERTIES
COC Flash Point: N/A
Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR
LEL: N/A
UEL: N/A

FLAMMABLE PROPERTIES:
Active ingredient is not flammable, but packaging material will burn.

EXTINGUISHING MEDIA:
BC/ABC extinguisher may be used in area where material is stored.

SPECIAL FIRE FIGHTING PROCEDURES:
As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
In case of fire, highly corrosive gasses may be emitted.

5. REACTIVITY DATA

STABILITY:
Stable.

INCOMPATIBILITY (MATERIALS TO AVOID):
Glass, silicon compounds; alkali.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Highly corrosive fumes.

HAZARDOUS POLYMERIZATION:
Will not occur.

6. HEALTH HAZARD DATA

INHALATION RISKS AND SYMPTOMS OF EXPOSURE:
May cause respiratory irritation, osteofluorosis, and respiratory impairment.

SKIN / EYE CONTACT RISKS AND SYMPTOMS OF EXPOSURE:
Corrosive to the skin and eyes.

SKIN ABSORPTION RISKS AND SYMPTOMS OF EXPOSURE:
Skin contact can cause a burning sensation and dermatitis.

INGESTION RISKS AND SYMPTOMS OF EXPOSURE:
May be fatal if swallowed.

HEALTH HAZARDS (ACUTE AND CHRONIC):
Material may cause severe chemical burns upon prolonged contact, poisoning if injested.

EYE CONTACT FIRST AID:
Remove any contact lenses and flush with water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT FIRST AID:
Immediately flush skin with plenty of water. Remove contaminated clothing. Thoroughly wash (or discard) clothing and shoes before reuse.

INHALATION FIRST AID:
Remove to fresh air. Seek immediate medical attention.

INGESTION FIRST AID:
Rinse mouth at once, then drink 1 or 2 glasses of water or milk. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person. Get medical attention.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

ACTIONS IF MATERIAL IS RELEASED OR SPILLED:
Stop leak. Contain spill. Absorb with an inert material and place in a suitable container. Flush spill area with large amounts of water.

WASTE DISPOSAL METHOD:
Dispose of in accordance with federal, state and local regulations.

MISCELLANEOUS:
Dispose of wash water and spill byproducts according to State and Federal regulations.

(section 7 continued)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Store in a cool, dry area. Do not allow product to freeze. Do not get in eyes, on skin or clothing. Do not take internally.

8. CONTROL MEASURES

RESPIRATORY PROTECTION:
Not required.

VENTILATION:
Local exhaust to take vapor away from user.

PROTECTIVE GLOVES:
Rubber gloves recommended.

EYE PROTECTION:
Wear approved safety glasses/goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
To prevent skin contact, wear impervious clothing and boots.

WORK / HYGIENIC PRACTICES:
Observe reasonable care, cleanliness, and caution.

9. TRANSPORTATION INFORMATION

PRODUCT LABEL.....: Faultless® Rust Buster
D.O.T. SHIPPING NAME...: Consumer Commodity
D.O.T. HAZARD CLASS....: ORM-D
UN NUMBER.....: N/A
PACKAGE CLASS.....: III

10. REGULATORY INFORMATION

CHEMICAL INVENTORY INFORMATION:
This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

11. DISCLAIMER

****

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.

****

END OF MSDS

****

MSDS - Material Safety Data Sheet
Product Name: LIQUID WRENCH PENETRATING OIL

MSDS No.: L106

I. Basic Information:

Manufacturer: RADIATOR SPECIALTY COMPANY
Address: 600 RADIATOR ROAD
City, ST Zip: INDIAN TRAIL, NC 28079
Country:

Contact: Robert Geer
Information Telephone Number: 704-684-1811
Emergency Contact: Rocky Mountain Poision Control Center
Emergency Telephone Number: 303-623-5716
Emergency Restrictions:

Product Name: LIQUID WRENCH PENETRATING OIL
MSDS No.: L106

Issue Date: 02/19/2008
Supersedes Date: 10/12/2006

II. Hazards Identification:

EMERGENCY OVERVIEW

Danger: Flammable. Harmful or fatal if swallowed. Eye and skin irritant. Contents under pressure.

Level 3 Aerosol

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Route(s) of Entry:

Absorption, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

N/D

Signs and Symptoms:

Eye Contact: Irritant. Prolonged contact may cause conjunctivitis.
Skin Contact: Irritant. Defatting of tissue, dermatitis may occur.
Inhalation: Irritant to mucous membranes. Repeated exposure may cause narcosis, dizziness, respiratory or lung irritation.
Ingestion: HARMFUL OR FATAL IF SWALLOWED. May cause burns to mouth, throat & stomach.

Medical Conditions Generally Aggravated by Exposure:

N/D

Other Health Warnings:

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Carbon dioxide	124-38-9	1.0 - 5.0	
Fragrance	Proprietary	0.1 - 1.0	
Kerosene	8008-20-6	40.0 - 70.0	
Naphthenic Petroleum Distillate	64742-52-5	15.0 - 40.0	
Solvent-Refined Heavy Paraffinic	64741-88-4	0.1 - 1.0	

IV. First Aid Measures:

Emergency and First Aid Procedures:

MSDS - Material Safety Data Sheet
Product Name: LIQUID WRENCH PENETRATING OIL

MSDS No.: L106

Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.
Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.
Inhalation: Remove to fresh air. If breathing becomes difficult give oxygen and get prompt medical attention. If breathing stops, give artificial respiration and get prompt medical attention.
Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately. Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

Note to Physicians:

N/E

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Water Fog, Foam, Carbon Dioxide, Dry Chemical

Unsuitable Extinguishing Media:

Do not use forced water stream as this could cause the fire to spread.

Products of Combustion:

Normal products of combustion, smoke, carbon dioxide, carbon monoxide, and sulfur trioxides.

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes. Use shield to protect from rupturing and venting containers. At elevated temperatures containers may vent, rupture or burst, even violently

VI. Accidental Release Measures:

Personal Precautions:

Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed.

Environmental Precautions:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred. Run off to sewer may create fire or explosion hazard.

Methods for Containment:

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

Methods for Cleanup:

Using a non-metalic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material.

Other Information:

All equipment used with handling the concentrate must be grounded. If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:

Handling Precautions:

Use with adequate ventilation and proper protective equipment.
Do not use or store near fire, sparks, or open flame. Do not puncture or incinerate container. Exposure to sunlight and temperatures above 120° may cause container to vent, rupture, or burst.

Storage Precautions:

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS! Danger: Flammable.

VIII. Exposure Controls/Personal Protection:

MSDS - Material Safety Data Sheet
Product Name: LIQUID WRENCH PENETRATING OIL

MSDS No.: L106

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Kerosene	N/AV	100 ppm	Not Available
Naphthenic Petroleum Distillate	5 mg/m3	5 mg/m3	Not Available
Solvent-Refined Heavy Paraffinic	5 mg/m3	5 mg/m3	Not Available
Fragrance	N/D	N/D	Not Available
Carbon dioxide	N/AV	5000 ppm	Not Available

Engineering Controls:

Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

See Section 2 for applicable exposure limits. For prolonged exposure wear protective safety glasses, gloves, and apron.

IX. Physical and Chemical Properties:

Boiling Point: 320 F
Boiling Range: Not Available
Solubility In Water: Insoluble
Flash Point: 132F
Odor Threshold: Not Available
Vapor Density (AIR = 1): N/A
pH Range: Not Available
Decomposition Temp: Not Available
Lower Explosive Limit: 0.7%
Specific Gravity (H20 = 1): 0.85
Other Information: VOC Content: 36.938

Melting Point: N/A
Freezing Point: Not Available
Evaporation Rate (Butyl Acetate = 1): N/A
Flash Point Method: TCC
Appearance and Odor: Dark Liquid with petroleum odor
Vapor Pressure (mm Hg.): N/A
Partition Coefficient: Not Available
Auto-Ignition Temp: Not Available
Upper Explosive Limit: 5%

X. Stability and Reactivity:

Stability:

Product is stable

Conditions to Avoid:

See Incompatible Materials below

Incompatible Materials:

Avoid contact with strong oxidizers

Hazardous Decomposition Products:

Normal products of combustion, smoke, carbon dioxide, carbon monoxide, and sulfur trioxides.

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

N/D

XII. Ecological Information:

N/D

MSDS - Material Safety Data Sheet
Product Name: LIQUID WRENCH PENETRATING OIL

MSDS No.: L106

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

XIV. Transport Information:

Shipping Name: Not Available

DOT Hazard Class: Not Available

DOT Subsidiary Hazard Class: Not Available

UN/NA#: Not Available

Packing Group: Not Available

Transportation Information:

DOT Hazard Class: ORM-D
Shipping Name: Consumer Commodity

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for international and air shipping purposes.

ICAO/IATA (US)
Shipping Name: Aerosols
Class: 2.1
UN number: UN1950

International:

ICAO/IATA
UN number: UN1950
Shipping Name: Aerosols
Class: 2.1

IMDG
UN number: UN1950
Shipping Name: Aerosols
Class: 2.
EmS: F-D, S-U

XV. Regulatory Information:

See Section 2 for SARA Reportable Chemicals.

USA TSCA: All components of this material are listed on the US TSCA Inventory.

Warning: This product contains a chemical(s) known to the State of California to cause cancer or birth defects or other reproductive harm.

XVI. Other Information:

Chemical State: [X] Liquid [ ] Gas [ ] Solid

Chemical Type: [ ] Pure [X] Mixture

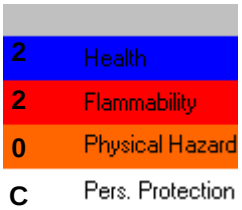
Hazard Category:

[X] Acute [ ] Chronic [X] Fire

[X] Pressure [ ] Reactive

Additional Manufacturer Warnings:

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!



N/E: Not Established
N/D: Not Determined
N/A: Not Applicable
N/AV: Not Available

MSDS - Material Safety Data Sheet

Product Name: LIQUID WRENCH PENETRATING OIL

MSDS No.: L106

Additional Product Information:

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.

OIL-DRI
CORPORATION OF AMERICA
410 North Michigan Avenue
Chicago, IL 60611

Material Safety Data Sheet

)IL-DRI® premium industrial floor absorbent (#1006500)

☎ (312)321-1515, Information (800)424-9300, Emergency

1. PRODUCT IDENTIFICATION

MSDS Number: 1006500

Identity: OIL-DRI® premium industrial floor absorbent

Issued: January 18, 2008

Chemical Name: Gypsum/Clay Mixture

2. COMPOSITION

Component	CAS Number	Amount
	Mixture	
Fullers Earth	8031-18-3	30-40%
Gypsum	10101-41-4	50-60%
Crystalline Silica as Quartz (part of fullers earth clay)	14808-60-7	3-9%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a non-combustible, chemically inert mineral. This mineral sample contains a small amount of naturally-occurring crystalline silica as quartz. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis). IARC, in Monograph 68, has concluded that crystalline silica inhaled in the form of quartz from occupational sources is carcinogenic to humans (Group 1); however, carcinogenicity was not detected in all industrial circumstances studied. Because applications and exposure data indicate that exposure to respirable quartz in this product with normal use is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV); and because the company is not aware of any scientific or medical data available indicating that exposure to dust from this product under conditions of normal use will cause silicosis or cancer; adverse effects would not be expected from normal use of this product.

HEALTH HAZARDS

INGESTION: No adverse effects expected with unused material.

INHALATION: Inhalation of excessive concentrations of dust may cause irritation of mucous membranes and upper respiratory tract.

EYE: Contact may cause mechanical irritation and possible injury.

SKIN: No adverse effects expected.

SENSITIZATION: No adverse effects expected.

CHRONIC/CARCINOGENICITY:

Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury. This product contains crystalline silica. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling and fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function. The International Agency for Research on Cancer (IARC), in Monograph 68 has concluded that crystalline silica inhaled in the form of quartz or cristobalite, from occupational sources is carcinogenic to humans (Group 1).

However, in making the overall evaluation, the Working Group noted that carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. The National Toxicology Program (NTP) classifies crystalline silica as a known carcinogen. Because applications and exposure data indicate that exposure to respirable quartz in this product with normal use is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV); and because the company is not aware of any scientific or medical data available indicating that exposure to dust from this product under conditions of normal use will cause silicosis or cancer; adverse effects would not be expected from normal use of this product.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None currently known.

4. FIRST AID MEASURES

EYE: Immediately flush eyes with cool running water, lifting upper and lower lids. If irritation persists or for foreign body in the eye, get immediate medical attention.

SKIN: None needed for normal use.

INGESTION: If large amount of unused material is swallowed, get medical attention.

INHALATION: Remove to fresh air.

5. FIREFIGHTING MEASURES

FLASH POINT: Not flammable

FLAMMABLE LIMITS Not applicable

EXTINGUISHING MEDIA:

Use media that is appropriate for surrounding fire.

UNUSUAL FIRE OR EXPLOSION HAZARDS:

None

SPECIAL FIREFIGHTING INSTRUCTIONS

None required.

HAZARDOUS COMBUSTION PRODUCTS:

None, extremely high temperatures may generate sulfur dioxide.

6. ACCIDENTAL RELEASE MEASURES

Sweep up and collect for re-use or disposal

7. HANDLING AND STORAGE

HANDLING: Avoid breathing dust. If clothing becomes dusty, launder before re-use.

STORAGE: Store in a dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Component	Exposure Limit
Fullers Earth	30-40%
Gypsum	PEL - 5 mg/m³ TWA (respirable fraction) TLV - 10 mg/m³ TWA (inhalable dust)
Crystalline Silica as Quartz (part of fullers earth clay)	PEL - 10 mg/m³/%Si02+2 TWA TLV - 0.025 mg/m³ TWA

PEL- OSHA Permissable Exposure Limit. TLV- American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value. TWA- 8 hour Weighted Average. STEL-Short Term Exposure Limit.

ENGINEERING CONTROLS:

For normal use, general ventilation should be adequate.

RESPIRATORY PROTECTION:

None required for normal use. For operations where the dust concentration may be excessive, a dust respirator may be used.

SKIN PROTECTION: None required for normal use.

EYE PROTECTION: None required for normal use

OTHER: None required for normal use.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

White to tan granules

PHYSICAL STATE: Solid

BOILING POINT: 163 deg. C (looses water)

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

SOLUBILITY IN WATER:

Slight

SPECIFIC GRAVITY: 2.3-2.37

pH: Not applicable

MELTING POINT: 128 deg. C (looses water)

OCTANOL/WATER COEFFICIENT:

Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Physical contact between this material and turpentine, hydrofluoric acid, vegetable oil or other unsaturated organic compounds (such as fish oil) may generate heat and/or fire. Do not use this material with these compounds.

HAZARDOUS DECOMPOSITION PRODUCTS

Extreme heat may generate sulfur dioxide.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. TOXICOLOGICAL INFORMATION

No data available.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations. Unused material is suitable for disposal in sanitary landfill. Used material may be subject to regulation, depending on the nature of the material absorbed. Check with appropriate regulatory authority for used material containing hazardous waste.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:

Not regulated

UN NUMBER: Not applicable

HAZARD CLASS/PACKING GROUP:

Not applicable

LABELS REQUIRED: None

15. REGULATORY INFORMATION

CERCLA/SUPERFUND None

SARA HAZARD CATEGORY (311/312):

Chronic Health

SARA 313: None

TSCA: All of the components of this product are listed on the EPA TSCA Inventory or exempt from notification requirements.

EINECS: All of the components of this product are listed on the EINECS Inventory or exempt from notification requirements

EEC R&S Phrases: Not Classified as Dangerous under EEC Labeling Regulations

JAPAN MITI: All of the components of this product are existing chemical substances as defined in the Chemical Substances Control Law.

AICS: All of the components of this product are listed on the AICS Inventory or exempt from notification requirements

CANADIAN DSL: All of the components of this product are listed on the Canadian Domestic Substance List or exempt from notification requirements.

CA PROPOSITION 65: This product contains respirable crystalline silica which is known to the State of California to cause cancer.

16. OTHER INFORMATION

NFPA RATING: Health=1 Fire=0 Reactivity=0

HMIS RATING: Health=1* Fire=0 Reactivity=0

The information in this data sheet is believed to be accurate. However, each purchaser should make its own test to determine the suitability of the product for its purposes. OIL-DRI CORPORATION OF AMERICA MAKES NO WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCT and assumes no responsibility for any risk or liability arising from the use of the information or the product. Statements about the product should not be construed as recommendations to use the product in infringement of any patent.

DOW CORNING

DOW CORNING CORPORATION
Fiche Signalétique

Version: 1.4
Date de révision: 2007/06/27

MOLYKOTE(R) 557 SILICONE DRY FILM LUBRICANT

1. IDENTIFICATION DU PRODUIT ET DE LA SOCIETE

No. de la F.S.: 02410885

NOM DU FOURNISSEUR:
Dow Corning Canada Inc.
15-6400 Millcreek Drive, Suite 416
Mississauga, ON, Canada L5N 3E7

Préparé par Product Safety: (800) 248-2481
NEWALTA: (800) 567-7455
Date de révision: 2007/06/27

NOM DU FABRICANT:
Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

Téléphone d'urgence 24 heures: (989) 496-5900

CLASSIFICATION SIMDUT: **Catégorie B, Division 3.**
Catégorie D, Division 2B.

Utilisation du Produit: **Lubrifiant**

2. IDENTIFICATION DES DANGERS

MESURES D'URGENCE GENERALES

Description Générique: **Silicone dans solvant.**
Etat Physique: **Liquide.**
Couleur: **Incolore.**
Odeur: **Solvant.**

++

EFFETS SUR LA SANTE POTENTIELS

Effets aigus

Yeux: Le contact direct peut causer une légère irritation. Les vapeurs peuvent entraîner l'irritation des yeux.

Peau: Aucune irritation significative n'est prévue à la suite d'une seule exposition à court terme.

Inhalation: Les vapeurs peuvent irriter le nez et la gorge. La surexposition par inhalation peut causer la somnolence, des étourdissements, de la confusion ou une perte de coordination.

Ingestion: L'aspiration de liquide au moment de vomir peut causer de graves lésions aux poumons.

Effets suite a une exposition répétée/prolongée

Peau:	Le contact répété ou prolongé peut causer le dégraissage ou l'assèchemenent de la peau, ce qui peut entraîner une irritation cutanée et une dermatite.
Inhalation**:**	Aucun renseignement applicable connu.
Ingestion:	L'ingestion ou la déglutition répétée de grandes quantités peut causer des lésions internes.

Signes et Symptômes d'une surexposition

Aucun renseignement applicable connu.

Certains Malaises et Maladies sont aggravés par suite d'une exposition

Aucun renseignement applicable connu.

Les effets potentiels d'une surexposition énumérés ci-dessus sont fondés sur des données et des résultats d'études menées sur des compositions similaires, des données portant sur les composants et/ou des études d'experts menées sur le produit. Veuillez vous référer à la section 11 pour connaître le détail des renseignements d'ordre toxicologique.

3. COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

Numéro de CAS	Pds (%)	Nom du composant
8052-41-3	> 60.0	Solvant Stoddard
108-11-2	3.0 - 7.0	4-Méthylpentane-2-ol

Les ingrédients énumérés ci-dessus sont des produits contrôlés selon le Règlement sur les produits contrôlés (RPC) modifié. SOR/88-555.

4. PREMIERS SECOURS

Yeux:	Rincer immédiatement à grande eau pendant 15 minutes.
Peau:	Retirer de la peau et bien laver à l'eau et au savon ou à l'aide de détergent à sec. Consulter un médecin si l'irritation ou d'autres malaises se développent ou persistent.
Inhalation:	Amener la personne à l'air frais. Consulter un médecin si les malaises persistent.
Ingestion:	Consulter un médecin immédiatement. Ne provoquer le vomissement que sur instruction d'un médecin. Ne jamais donner quoi que ce soit par voie orale à une personne inconsciente.
Notes au médecin:	Traiter selon l'état de la personne et les conditions d'exposition.

5. MESURES DE LUTTE CONTRE L'INCENDIE

Point d'éclair:	103.1 °F / 39.5 °C (Coupelle fermée)

Auto-Inflammation:	Pas disponible.
Limites D'inflammabilité dans l'air:	Pas disponible.
Moyens d'extinction:	Pour les gros incendies, utiliser de la poudre extinctrice, de la mousse ou de l'eau pulvérisée. Pour les petits incendies, utiliser du dioxyde de carbone (CO2), de la poudre extinctrice ou de l'eau pulvérisée. L'eau peut être utilisée pour refroidir les récipients exposés au feu.
Mesures de lutte contre l'incendie:	Il convient de porter un appareil respiratoire autonome et des vêtements de protection pour combattre de gros incendies de produits chimiques. Pulvériser avec de l'eau les conteneurs exposés au feu afin de les maintenir froids. Déterminer la nécessité d'évacuer ou d'isoler la zone en accord avec le plan d'urgence en vigueur.
Risques d'incendie inhabituels:	L'électricité statique s'accumulera et peut enflammer les vapeurs. Prévenir les risques d'incendie en procédant à la métallisation et à la mise à la terre ou à la purge des gaz inertes.

6. MESURES À PRENDRE EN CAS DE DISPERSION ACCIDENTELLE

Retenue/Nettoyage:	Eliminer toutes les sources possibles d'ignition. Procéder à l'évacuation ou à l'isolation de la zone conformément à la procédure d'urgence locale. Respecter toutes les recommandations liées au matériel de protection personnelle (décrites aux sections 5 et 8). Pour les déversements importants, installer des digues au d'autres méthodes de confinement pour empêcher la propagation du produit. Si le produit confiné par des digues peut être pompé, entreposer le produit récupéré dans un contenant approprié. Nettoyez les substances restantes du déversement à l'aide d'un absorbant approprié. Nettoyer la zone de façon appropriée puisque certains produits de silicone, méme en petites quantités, peuvent présenter un risque de dérapage. Le nettoyage final peut exiger l'utilisation de vapeur, de solvants ou de détergents. Éliminer l'absorbant ou les produits de nettoyage saturés de façon appropriée, puisqu'une combustion spontanée peut se produire. Des lois et des règlements locaux, provinciaux et fédéraux peuvent s'appliquer aux déversements et à l'élimination de ce produit et des produits et des articles utilisés pour le nettoyage des déversements.

Note: Voir la section 8 sur l'équipement de protection personnelle sur les déversements. Appelez au (989) 496-5900, pour de plus amples renseignements.

7. MANIPULATION ET STOCKAGE

Employer en présence d'un système de ventilation adéquate. Éviter le contact avec les yeux. Eviter tout contact avec la peau. Ne pas inhaler les vapeurs, le brouillard, les poussières ou les fumées. Maintenir le contenant fermé. Ne pas ingerer.

L'électricité statique s'accumulera et peut enflammer les vapeurs. Prévenir les risques d'incendie en procédant à la métallisation et à la mise à la terre des contenants ou à la purge des gaz inertes. Maintenir le contenant fermé et le tenir à l'abri de la chaleur, des étincelles et des flammes.

8. CONTROLE DE L'EXPOSITION / PROTECTION INDIVIDUELLE

Limite d'exposition du composant

Consultez les autorités locales afin d'obtenir les normes provinciales acceptables.

Numéro de CAS	Nom du composant	Limites d'exposition
8052-41-3	Solvant Stoddard	OSHA PEL (final rule): TWA 500 ppm and ACGIH TLV: TWA 100 ppm. LD50: > 5,000 mg/kg - Ingestion Rat
108-11-2	4-Méthylpentane-2-ol	OSHA PEL (final rule)-skin: TWA 25 ppm and ACGIH TLV-skin: TWA 25 ppm, STEL 40 ppm. LD50:

Contrôles D'ngénierie

Ventilation du poste de travail:	Recommandé.
Ventilation générale:	Recommandé.

Equipements de Protection Individuelle pour les Manipulations de Routine

Yeux:	Utiliser des lunettes à coques pour travailleur de l'industrie chimique.
Peau:	Se laver au moment des repas et à la fin des quarts de travail. Les vêtements et les souliers contaminés doivent être retirés dès que possible et bien lavés avant d'être réutilisés. Le port de gants de protection contre les produits chimiques est recommandé.
Gants convenables:	Évitez tout contact avec la peau en mettant en vigueur de bonnes procédures et pratiques d'hygiène industrielle. Choisissez et utilisez des gants et/ou des vêtements protecteurs pour réduire encore plus la possibilité de contact avec la peau. Consultez le fabricant de vos gants et/ou de votre équipement de protection personnelle pour le choix de matériaux compatibles appropriés.
Inhalation:	Utilisez une protection respiratoire à moins d'avoir une ventilation d'aspiration locale adéquate ou que l'évaluation de l'exposition indique que les expositions se situent dans les limites des directives d'exposition recommandées. Le personnel IH peut aider à juger la suffisance des contrôles techniques actuels.
Respirateur Convenable:	Une ventilation aspirante générale et locale est conseillée pour garder le niveau d'exposition aux vapeurs en dessous des seuils recommandés. Lorsque l'échantillonnage de l'air révèle des concentrations dépassant les seuils recommandés ou que ces concentrations sont inconnues, il faut porter une protection adéquate des voies respiratoires. Respectez la norme ACNOR Z94.4-93 et utilisez des respirateurs homologués NIOSH / ACNOR.

Equipements de Protection Individuelle en Cas de Déversements

Yeux:	Utiliser un respirateur à masque complet.
Peau:	Se laver au moment des repas et à la fin des quarts de travail. Les vêtements et les souliers contaminés doivent être retirés dès que possible et bien lavés avant d'être réutilisés. Le port de gants de protection contre les produits chimiques est recommandé.
Inhalation/Respirateur Convenable:	Protection des voies respiratoires conseillée. Respectez la norme ACNOR Z94.4-93 et utilisez les respirateurs homologués NIOSH / ACNOR. La protection assurée par les respirateurs à adduction d'air filtré contre l'exposition à tout produit chimique dangereux est limitéeUtilisez un respirateur à adduction d'air à pression positive en cas de possibilité d'émission incontrôlée, si les niveaux d'exposition sont inconnus ou dans toute autre situation où la protection assurée par les respirateurs à adduction d'air filtré peut être insuffisante.
Mesures de Précaution:	Éviter le contact avec les yeux. Eviter tout contact avec la peau. Ne pas inhaler les vapeurs, le brouillard, les poussières ou les fumées. Maintenir le contenant fermé. Ne pas ingerer. Veuillez apporter de soin raisonnable

Note: Ces précautions concernent une manipulation à la température de la pièce. L'utilisation a des températures élevées ou les applications en aérosol peut nécessiter des précautions supplémentaires.

9. PROPRIETES PHYSIQUES ET CHIMIQUES

Etat Physique:	Liquide.
Couleur:	Incolore.
Odeur:	Solvant.
Seuil olfactif:	Non disponible.
Densité @ 25°C:	0.77
Viscosité:	1 cSt
Point de Congélation:	Pas disponible.
Point Ebullition:	> 65 °C
Tension de Vapeur @ 25°C:	Pas disponible.
Densité de la vapeur:	Pas disponible.
Taux d'évaporation:	Non disponible.
Solubilité dans l'eau:	Pas disponible.
Coefficient de répartition eau / huile:	Non disponible.
pH:	Pas disponible.
Contenu Volatile:	95 %
Point d'éclair:	103.1 °F / 39.5 °C (Coupelle fermée)
Auto-Inflammation:	Pas disponible.
Limites D'inflammabilité dans l'air:	Pas disponible.

Note: Ces informations ne sont pas destinées à la redaction de specification de produits. Veuillez contacter Dow Corning avant de rédiger vos spécifications.

MOLYKOTE(R) 557 SILICONE DRY FILM LUBRICANT

10. STABILITE ET REACTIVITE

stabilité chimique: Stable.

Polymérisation dangereuse: La polymérisation dangereuse ne se produira pas.

Conditions à Eviter: Aucun(e).

Materiaux à Eviter: Les comburants peuvent entraîner une réaction.

Produits de décomposition dangereux

Le claquage thermique de ce produit durant un incendie ou sous des conditions de chaleur intense pourrait mener aux produits de décomposition suivants: Oxydes de carbone et traces de résidus de combustion de composés carbonés. Dioxyde de silicium. Formaldéhyde.

11. INFORMATIONS TOXICOLOGIQUES

Renseignements sur les dangers particuliers des Composants

Aucun renseignement applicable n'est connu.

12. INFORMATIONS ECOLOGIQUES

Distribution et Evolution dans l'environnement

Les renseignements complets ne sont pas encore disponibles.

Les effets sur l'environnement

Les renseignements complets ne sont pas encore disponibles.

Evolution et les effets dans les stations d'épuration des eaux usée

Les renseignements complets ne sont pas encore disponibles.

Critère de classification de l'écotoxicité

Parametres De Danger (LC50 OR EC50)	Elevé	Moyen	Faible
Toxicité Aigue en milieu Aquatique (MG/L)	<=1	>1 and <=100	>100
Toxicité Aigue en milieu terrestre (MG/L)	<=100	>100 and <= 2000	>2000

Ce Tableau est Adapté de "ENVIRONMENTAL TOXICOLOGY AND RISK ASSESSMENT", ASTM STP 1179, P. 34, 1993.

Ce Tableau peut être utilisé pour classifier l'écotoxicité du produit quand des données ecotoxiques sont inscritent au dessus. Veuillez lire l'autre information sur la sécurité écologique de cette matière dans son ensemble.

13. CONSIDÉRATIONS RELATIVES À L'ÉLIMINATION

Peut être incinéré conformément aux réglementations locales.

Appelez la société locale d'élimination des déchets dangereux ou les autorités provinciales en matière de déchets pour plus de renseignements.

14. INFORMATIONS RELATIVES AU TRANSPORT

Route du Canada (selon les règlements du code IMDG)

Nom D'expedition:	PETROLEUM DISTILLATES, N.O.S.
Classe des dangers:	3
Numero UN/NA:	UN 1268
Groupe D'emballage:	III
Étiquette(s) de risque:	flammable liquid

IMDG Maritime

Nom D'expedition:	PETROLEUM DISTILLATES, N.O.S.
Classe des dangers:	3
Numero UN/NA:	UN 1268
Groupe D'emballage:	III
Étiquette(s) de risque:	flammable liquid

ICAO Aérien

Nom D'expedition:	Petroleum distillates, n.o.s.
Classe des dangers:	3
Numero UN/NA:	UN 1268
Groupe D'emballage:	III
Classe des dangers:	Flammable Liquid

Appelez Dow Corning Transportation au (989) 496-8577 si vous avez besoin de renseignements supplémentaires.

15. INFORMATIONS REGLEMENTAIRES

MOLYKOTE(R) 557 SILICONE DRY FILM LUBRICANT

Ce produit a été classé conformément aux critères de danger énoncés dans le RPC, et la fiche signalétique contient tous les renseignements exigés par le RPC.

CLASSIFICATION	Catégorie B, Division 3.
SIMDUT:	Catégorie D, Division 2B.
DSL STATUS:	Toutes les substances chimiques dans ce produit figurent sur la LIS ou sont exemptées.

16. AUTRES INFORMATIONS

Redigé par: Dow Corning Corporation

Ces Données sont proposées de bonne foi comme valeurs typiques et non comme une spécification du produit. Aucune garantie, expresse ou tacite, n'est établie par la présente. Les méthodes recommandées pour l'hygiène industrielle et une manipulation sans risques sont considérées comme étant généralement applicables. Cependant, chaque utilisateur/trice devrait revoir ces recommandations dans le contexte spécifique de l'utilisation prévue et déterminer si celles-ci sont appropriées.

(R) indique une Marque Déposée

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 494965 PENTRAZEN**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Kerosene	8008-20-6	Not established
Mineral Spirits	8052-41-3	100ppm
Propane	74-98-6	2500ppm
Isobutane	75-28-5	Not established
n-Butane	106-97-8	800ppm
Naphthenic Oil	64742-52-5	5mg/m^3 as mist

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to >550^0 F	Specific Gravity(H_2O=1):	0.60 $\pm$ 0.1
Solubility in Water:	Nil	Evaporation Rate:	Slower than Ether
Vapor Density(Air=1):	Heavier than air	pH:	NA

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	140^{O}F
Flash Point(Propellant):	<0^{O}F
Flammable Limits(Propellant):	LEL: 1.8 UEL: 12.0
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.
Unusual Fire and Explosion Hazards:	Heated cans may burst.

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

Mineral Spirits may contain 3.5% 1,2,4, Trimethylbenzene (CAS#95-63-6) which is subject to the reporting requirements of Section 313 of SARA Title III. Kerosene contains 0.5-1.5% xylene mix (CAS#1330-20-7), 0.5-1.5% naphthalene (CAS#91-20-3) and 0.4-1.2% biphenyl (CAS#92-52-4) which are subject to the reporting requirements of Section 313 of SARA Title III.

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT **MSDS DATE: 08/31/06**

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 73491 Eye Wash Solution - 16 oz.
MANUFACTURED FOR: Impact Products, LLC
ADDRESS: 2840 Centennial Road, Toledo, OH 43617
EMERGENCY PHONE: 800-793-8740
CHEMTREC PHONE:

CHEMICAL NAME:
CHEMICAL FAMILY:
CHEMICAL FORMULA:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	CAS NO.	% WT	TLV/PEL

This eye wash solution is a sterile, isotonic-preserved saline solution which complies with FDA regulations 21 CFR, parts 349 and 369. There are no ingredients in this eye wash solution which appeared on the OSHA standard 29 CFR 1910, subpart z.

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Inhalation: No Skin: Yes Ingestion: Yes

POTENTIAL HEALTH EFFECTS
EYES: n/a
SKIN: n/a
INGESTION: n/a
INHALATION: n/a
ACUTE/CHRONIC HEALTH HAZARDS: Non-toxic to the skin and if accidentally ingested is non-hazardous, but might exert a mil emetic reaction accompanied by possible slight nausea.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: n/a

CARCINOGENICITY
OSHA: No **NTP:** No **IARC:** No **OTHER:**

SECTION 4: FIRST AID MEASURES

EYES: n/a
SKIN: n/a
INGESTION: Drink water if accidentally ingested to dilute the concentration
INHALATION: n/a

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS: non-flammable **LEL:** n/a **UEL:** n/a
FLASH POINT: n/a
METHOD USED: n/a
HMIS HAZARD CLASSIFICATION: **HEALTH:** **FLAMMABILITY:** **REACTIVITY:**
EXTINGUISHING MEDIA: n/a
SPECIAL FIRE FIGHTING PROCEDURES: n/a
UNUSUAL FIRE AND EXPLOSION HAZARDS: none

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: None
OTHER PRECAUTIONS: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : **Local Exhaust:** n/a **Special:** n/a

Mechanical: n/a **Other:** n/a

RESPIRATORY PROTECTION: Not required
EYE PROTECTION: Not required
SKIN PROTECTION: Not required
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not required
WORK HYGIENIC PRACTICES: No special practices required

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR: Clear, colorless, odorless liquid
BOILING POINT: n/a
MELTING POINT: n/a
VAPOR PRESSURE (mmHg): n/a
VAPOR DENSITY (AIR = 1): n/a
SPECIAL GRAVITY (H2O = 1): n/a
EVAPORATION RATE: n/a
SOLUBILITY IN WATER: Complete
PERCENT VOLATILE:
VISCOSITY:

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	STABLE	UNSTABLE
	X	

CONDITIONS TO AVOID (STABILITY): None
INCOMPATIBILITY (MATERIAL TO AVOID): None
HAZARDOUS DECOMPOSITION: None
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

SECTION 13: DISPOSAL CONSIDERATIONS/PROCEDURES FOR SPILL OR LEAK CLEANUP

WASTE DISPOSAL METHOD: Standard
PROCEDURE FOR SPILL OR LEAK CLEANUP: Consistent with local, state and federal regulations regarding disposal of non-hazardous materials.

SECTION 14: TRANSPORT INFORMATION

SECTION 15: REGULATORY INFORMATION

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

DISCLAIMER: The information furished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied is made and Impact Products LLC assumes no legal responsibility or liability resulting from its use.

Additional Information:

Effects of Freezing on Eye Saline Concentrate

Freezing Point: 10 degrees F is the point where this product freezes solid, based on tests conducted by the manufacturer of the liquid.

Sample bottles of Eye Wash Solution have been exposed to freezing conditions a number of times and allowed to thaw in order to test for degradation or breakdown of the product. No degradation or breakdown of eye wash has occurred under these circumstances.

While liquid product is not harmed by freezing and sub-freezing temperatures, consideration should be given to the examination of the container/closure system (bottling) of the product to ensure that the bottle/cap has not been compromised. The bottle/cap and seal must be intact for assurance of continued sterility.

Neutralizing Effects

Eye Wash Solution is a buffered, isotonic, sterile saline solution, balanced to neutral pH 7. Being a neutral pH solution, acids or caustic liquid, thus lowering or raising the pH of the combination of fluids.

MATERIAL SAFETY DATA SHEET

A26W51
13 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
A26W51	30-SEP-07	Flammability	0
		Reactivity	0

PRODUCT NAME
CLASSIC 99® Interior Semi-Gloss Latex Enamel, Extra White

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
www.sherwin-williams.com
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT		UNITS	VAPOR PRESSURE
2	112-34-5	2-(2-Butoxyethoxy)-ethanol			
		ACGIH TLV	Not Available		0.06 mm
		OSHA PEL	Not Available		
1	107-21-1	Ethylene Glycol			
		ACGIH TLV	100	mg/m3 CEILI (aerosol)	0.12 mm
		OSHA PEL	50	ppm CEILING	
0.1	14464-46-1	Cristobalite			
		ACGIH TLV	0.05	mg/m3 as Resp. Dust	
		OSHA PEL	0.05	mg/m3 as Resp. Dust	
5	471-34-1	Calcium Carbonate			
		ACGIH TLV	10	mg/m3 as Dust	
		OSHA PEL	15	mg/m3 Total Dust	
		OSHA PEL	5	mg/m3 Respirable Fraction	
12	13463-67-7	Titanium Dioxide			
		ACGIH TLV	10	mg/m3 as Dust	
		OSHA PEL	10	mg/m3 Total Dust	
		OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

Continued on page 2

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
In a confined area vapors in high concentration may cause headache, nausea or dizziness.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Not Applicable	N.A.	N.A.

FLAMMABILITY CLASSIFICATION
Not Applicable
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Continued on page 3

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	9.93 lb/gal	1189 g/l
SPECIFIC GRAVITY	1.19	
BOILING POINT	212 - 448 F	100 - 231 C
MELTING POINT	Not Available	
VOLATILE VOLUME	62 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	9.5	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

0.72 lb/gal	86 g/l	Less Water and Federally Exempt Solvents
0.30 lb/gal	36 g/l	Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

Ethylene Glycol is considered an animal teratogen. It has been shown to cause birth defects in rats and mice at high doses when given in drinking water or by gavage. There is no evidence to indicate it causes birth defects in humans.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
112-34-5	2-(2-Butoxyethoxy)-ethanol				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5660 mg/kg
107-21-1	Ethylene Glycol				
		LC50	RAT	4HR	Not Available
		LD50	RAT		4700 mg/kg
14464-46-1	Cristobalite				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
471-34-1	Calcium Carbonate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
Not Regulated for Transportation.

Canada (TDG)
Not Regulated for Transportation.

IMO
Not Regulated for Transportation.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
107-21-1	Ethylene Glycol	1	
	Glycol Ethers	2	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

A26WQ8015
21 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

A26WQ8015

HMIS CODES

Health	2*
Flammability	0
Reactivity	0

PRODUCT NAME

CLASSIC 99® Interior Latex Semi-Gloss Wall Paint, Antique White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
170 Brunel Rd
Mississauga, ON L4Z 1T5

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

20-APR-07

INFORMATION TELEPHONE NO.

(905) 507-0166

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT		UNITS	VAPOR PRESSURE
2	112-34-5	2-(2-Butoxyethoxy)-ethanol			
			ACGIH TLV	Not Available	0.06 mm
			OSHA PEL	Not Available	
1	107-21-1	Ethylene Glycol			
			ACGIH TLV	100 mg/m3 CEILI (aerosol)	0.12 mm
			OSHA PEL	50 ppm CEILING	
0.1	14464-46-1	Cristobalite			
			ACGIH TLV	0.05 mg/m3 as Resp. Dust	
			OSHA PEL	0.05 mg/m3 as Resp. Dust	
3	471-34-1	Calcium Carbonate			
			ACGIH TLV	10 mg/m3 as Dust	
			OSHA PEL	15 mg/m3 Total Dust	
			OSHA PEL	5 mg/m3 Respirable Fraction	
15	13463-67-7	Titanium Dioxide			
			ACGIH TLV	10 mg/m3 as Dust	
			OSHA PEL	10 mg/m3 Total Dust	
			OSHA PEL	5 mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
In a confined area vapors in high concentration may cause headache, nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Continued on page 2

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Not Applicable	N.A.	N.A.

FLAMMABILITY CLASSIFICATION
Not Applicable
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY
Not Applicable
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Continued on page 3

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	10.07 lb/gal	1207 g/l
SPECIFIC GRAVITY	1.21	
BOILING POINT	212 - 448 F	100 - 231 C
MELTING POINT	Not Available	
VOLATILE VOLUME	61 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	9.5	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

0.73 lb/gal	87 g/l	Less Water and Federally Exempt Solvents
0.31 lb/gal	37 g/l	Emitted VOC

Continued on page 4

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

Ethylene Glycol is considered an animal teratogen. It has been shown to cause birth defects in rats and mice at high doses when given in drinking water or by gavage. There is no evidence to indicate it causes birth defects in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA

CAS No.	Ingredient Name				
112-34-5	2-(2-Butoxyethoxy)-ethanol				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5660 mg/kg
107-21-1	Ethylene Glycol				
		LC50	RAT	4HR	Not Available
		LD50	RAT		4700 mg/kg
14464-46-1	Cristobalite				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
471-34-1	Calcium Carbonate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Continued on page 5

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
107-21-1	Ethylene Glycol	1	
	Glycol Ethers	2	

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Material Safety Data Sheet

24 Hour Emergency:
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 202-483-7616

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

Section 1 - Chemical Product / Company Information

Product Name:	KILZ Casual Colors Int/Ext Stainblocking Primer-Sealer	Revision Date:	02/13/2003
Identification Number:	125		
Product Use/Class:			
Supplier:	Masterchem Industries, Inc. 3135 Old Highway M Imperial, MO 63052-7834 Div of Masco, Inc	Manufacturer:	Masterchem Industries, Inc. 3135 Old Highway M Imperial, MO 63052-7834 Div of Masco, Inc
Preparer:	Crouse, Steve		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Ethylene Glycol	107-21-1	5.0	50 ppm	20mg/m3	50 ppm	N.E.
Ammonium Hydroxide	7664-41-7	1.0	25 ppm	35 ppm	50 ppm	

Section 3 - Hazards Identification

*** Emergency Overview ***: Contains a material which may cause embryo/fetotoxicity based on animal data. Contains a material which can cause liver and kidney damage based on animal data. Irritant.

Effects Of Overexposure - Eye Contact: Direct eye contact may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: May cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea. Harmful if swallowed. Gross overexposure may cause severe kidney damage. Under normal use conditions, this product is not expected to cause adverse health effects.

Effects Of Overexposure - Chronic Hazards: A component(s) of this product has been shown to cause adverse liver and kidney effects in laboratory animals.

Primary Route(s) Of Entry: Unknown

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

First Aid - Skin Contact: Wash skin thoroughly with soap and water.

First Aid - Inhalation: No Information.

First Aid - Ingestion: If swallowed do not induce vomiting. Seek immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: Not applicable

LOWER EXPLOSIVE LIMIT:
UPPER EXPLOSIVE LIMIT :

Extinguishing Media: Unknown

Unusual Fire And Explosion Hazards: None known.

Special Firefighting Procedures: No Information.

Section 6 – Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Absorb residue with suitable chemical absorbent. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. Dispose of material in accordance with all federal, state and local regulations. Spilled material becomes very slippery when wet.

Section 7 - Handling And Storage

Handling: Hazardous residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning. Use in well ventilated area.

Storage: Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: General ventilation should be provided to maintain ambient concentrations below nuisance levels.

Respiratory Protection: Respirator use is not expected to be necessary under normal conditions of handling. In emergency situations, use of a NIOSH-approved respirator may be required. When concentrations exceed nuisance levels, use appropriate NIOSH-approved respirator. In extreme cases a Self Contained Breathing Apparatus (SCBA) may be necessary.

Skin Protection: Chemical-resistant gloves may be required for individuals with sensitive skin. Sensitive individuals should wear gloves to prevent repeated contact.

Eye Protection: No Information.

Other protective equipment: No Information.

Hygienic Practices: No Information.

Section 9 - Physical And Chemical Properties

Boiling Range:	212 - 340	Vapor Density:	>air
Odor:	slight ammoniacal	Odor Threshold:	
Appearance:		Evaporation Rate:	Equal To Water
Solubility in H2O:	infinite		
Freeze Point:	32F	Specific Gravity:	1.301
Vapor Pressure:		PH:	8.8 to 9.3
Physical State:	Liquid	Viscosity:	97 to 103KU

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: No Information.

Incompatibility: No Information.

Hazardous Decomposition: No Information.

Hazardous Polymerization: No Information.

Stability: No Information.

Section 11 - Toxicological Information

Product LD50:

Product LC50:

Chemical Name	LD50	LC50
Ethylene Glycol	Oral, rat: 4700 mg/kg	Inhalation: 10876 mg/m3
Ammonium Hydroxide		Inhalation-mouse 4230ppm/1H

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with applicable federal, state and local regulations.

Section 14 - Transportation Information

DOT Proper Shipping Name:
DOT Technical Name:
DOT Hazard Class:
DOT UN/NA Number: ORM-D

Packing Group:
Hazard Subclass:
Resp. Guide Page:

Section 15 - Regulatory Information

CERCLA – SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311and 312 of the Superfund Amendment and

Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None Known.

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and

Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Ethylene Glycol	107-21-1

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
Ethylene Glycol	107-21-1

U.S. State Regulations: As follows –

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Inert non-hazardous material	MIXTURE
Water	7732-18-5
Talc, containing no asbestos fibers	14807-96-6
Titanium Dioxide	13463-67-7
Calcium Carbonate	1317-65-3

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Inert non-hazardous material	MIXTURE
Water	7732-18-5
Talc, containing no asbestos fibers	14807-96-6
Titanium Dioxide	13463-67-7
Calcium Carbonate	1317-65-3
Nepheline syenite	37244-96-5

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

No Proposition 65 Carcinogenic materials exist in this product

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Chemical Name	CAS Number
Ethylene Glycol	107-21-1

International Regulations: As follows –

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS:

Section 16 - Other Information

HMIS Ratings:

Health: 1- Minor Hazard Flammability: 0 - No Hazard Reactivity: 0 Personal Protection: B

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 157

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DISCLAIMER

The information accumulated herein is believed to be accurate, but is not warranted to be, whether orginated with the company or not. Since the use of this information and the conditions of use are not within the control of the manufacturer, it is the user's obligation to determine for safe use of this product. All ingredients used in the manufacture of this product are, if required, listed on the TSCA inventory.

Material Safety Data Sheet

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CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtrec: 202-483-7616

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

Section 1 - Chemical Product / Company Information

Product Name:	KILZ Casual Colors Int/Ext Stainblocking Primer-Sealer	Revision Date:	02/13/2003
Identification Number:	125		
Product Use/Class:			
Supplier:	Masterchem Industries, Inc. 3135 Old Highway M Imperial, MO 63052-7834 Div of Masco, Inc	Manufacturer:	Masterchem Industries, Inc. 3135 Old Highway M Imperial, MO 63052-7834 Div of Masco, Inc
Preparer:	Crouse, Steve		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Ethylene Glycol	107-21-1	5.0	50 ppm	20mg/m3	50 ppm	N.E.
Ammonium Hydroxide	7664-41-7	1.0	25 ppm	35 ppm	50 ppm	

Section 3 - Hazards Identification

*** Emergency Overview ***: Contains a material which may cause embryo/fetotoxicity based on animal data. Contains a material which can cause liver and kidney damage based on animal data. Irritant.

Effects Of Overexposure - Eye Contact: Direct eye contact may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: May cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea. Harmful if swallowed. Gross overexposure may cause severe kidney damage. Under normal use conditions, this product is not expected to cause adverse health effects.

Effects Of Overexposure - Chronic Hazards: A component(s) of this product has been shown to cause adverse liver and kidney effects in laboratory animals.

Primary Route(s) Of Entry: Unknown

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

First Aid - Skin Contact: Wash skin thoroughly with soap and water.

First Aid - Inhalation: No Information.

First Aid - Ingestion: If swallowed do not induce vomiting. Seek immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: Not applicable

LOWER EXPLOSIVE LIMIT:
UPPER EXPLOSIVE LIMIT :

Extinguishing Media: Unknown

Unusual Fire And Explosion Hazards: None known.

Special Firefighting Procedures: No Information.

Section 6 – Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Absorb residue with suitable chemical absorbent. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. Dispose of material in accordance with all federal, state and local regulations. Spilled material becomes very slippery when wet.

Section 7 - Handling And Storage

Handling: Hazardous residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning. Use in well ventilated area.

Storage: Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: General ventilation should be provided to maintain ambient concentrations below nuisance levels.

Respiratory Protection: Respirator use is not expected to be necessary under normal conditions of handling. In emergency situations, use of a NIOSH-approved respirator may be required. When concentrations exceed nuisance levels, use appropriate NIOSH-approved respirator. In extreme cases a Self Contained Breathing Apparatus (SCBA) may be necessary.

Skin Protection: Chemical-resistant gloves may be required for individuals with sensitive skin. Sensitive individuals should wear gloves to prevent repeated contact.

Eye Protection: No Information.

Other protective equipment: No Information.

Hygienic Practices: No Information.

Section 9 - Physical And Chemical Properties

Boiling Range:	212 - 340	Vapor Density:	>air
Odor:	slight ammoniacal	Odor Threshold:	
Appearance:		Evaporation Rate:	Equal To Water
Solubility in H2O:	infinite		
Freeze Point:	32F	Specific Gravity:	1.301
Vapor Pressure:		PH:	8.8 to 9.3
Physical State:	Liquid	Viscosity:	97 to 103KU

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: No Information.

Incompatibility: No Information.

Hazardous Decomposition: No Information.

Hazardous Polymerization: No Information.

Stability: No Information.

Section 11 - Toxicological Information

Product LD50:

Product LC50:

Chemical Name	LD50	LC50
Ethylene Glycol	Oral, rat: 4700 mg/kg	Inhalation: 10876 mg/m3
Ammonium Hydroxide		Inhalation-mouse 4230ppm/1H

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with applicable federal, state and local regulations.

Section 14 - Transportation Information

DOT Proper Shipping Name:
DOT Technical Name:
DOT Hazard Class:
DOT UN/NA Number: ORM-D

Packing Group:
Hazard Subclass:
Resp. Guide Page:

Section 15 - Regulatory Information

CERCLA – SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311and 312 of the Superfund Amendment and

Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None Known.

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and

Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Ethylene Glycol	107-21-1

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
Ethylene Glycol	107-21-1

U.S. State Regulations: As follows –

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Inert non-hazardous material	MIXTURE
Water	7732-18-5
Talc, containing no asbestos fibers	14807-96-6
Titanium Dioxide	13463-67-7
Calcium Carbonate	1317-65-3

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Inert non-hazardous material	MIXTURE
Water	7732-18-5
Talc, containing no asbestos fibers	14807-96-6
Titanium Dioxide	13463-67-7
Calcium Carbonate	1317-65-3
Nepheline syenite	37244-96-5

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

No Proposition 65 Carcinogenic materials exist in this product

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Chemical Name	CAS Number
Ethylene Glycol	107-21-1

International Regulations: As follows –

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS:

Section 16 - Other Information

HMIS Ratings:

Health: 1- Minor Hazard Flammability: 0 - No Hazard Reactivity: 0 Personal Protection: B

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 157

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DISCLAIMER

The information accumulated herein is believed to be accurate, but is not warranted to be, whether orginated with the company or not. Since the use of this information and the conditions of use are not within the control of the manufacturer, it is the user's obligation to determine for safe use of this product. All ingredients used in the manufacture of this product are, if required, listed on the TSCA inventory.

Masterchem Industries LLC

SECTION 1: PRODUIT CHIMIQUE ET IDENTIFICATION DE L'ENTREPRISE

Nom de produit:	**KILZ 2**
Référence :	2000
Nom du fabricant:	Masterchem Industries LLC
Adresse:	3135 Old Highway M Imperial MO 63052-2834

L'information de contact aux Etats-Unis:

Téléphone de l'entreprise:	(636) 942-2510
Téléphone du service technique :	(800) 325-3552
Télécopieur de l'entreprise:	(636) 942-3663

Info. Contact Canada :

Téléphone de l'entreprise:	(800) 661-1591
Téléphone du service technique :	(800) 661-1591
Télécopieur de l'entreprise:	(403) 273-1128

For emergencies in the US, call CHEMTREC: 800-424-9300
Au Canada, appeler CANUTEC : (613) 996-6666 (appeler à frais virés)

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SECTION 2: COMPOSITION, INFORMATION SUR LES INGRÉDIENTS

Référence 2000

Nom chimique	*CAS#*	*Pourcentage inférieur*	*Pourcentage supérieur*
Styrene resin	No data	10	30
Titanium dioxide	13463-67-7	10	30
Talc (powder), containing no asbestos fibers	14807-96-6	5	10
Nepheline Syenite	37244-96-5	1	5
Ethylene glycol	107-21-1	1	5
Vinyl acrylic polymer	No data	1	5
Non-hazardous ingredients		30	60

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SECTION 3: IDENTIFICATION DES RISQUES:

Référence 2000

Note d'urgence: Irritant.

S' adresse à tout les ingrédients

Effets potentiels sur la santé:

Contact avec les yeux:	Risque de provoquer une irritation.
Contact avec la peau:	Risque de provoquer une irritation.
Inhalation:	Toute inhalation prolongée ou excessive risque d'entraîner une irritation des voies respiratoires.
Ingestion:	Risque d'être dangereux en cas d'ingestion. Risque d'entraîner des vomissements.
Contact chronique avec la peau:	Tout contact prolongé ou répété risque d'entraîner une irritation de la peau.
Organes cibles:	Yeux. Peau. Appareil respiratoire. Appareil digestif.
Signes/symptômes:	Toute surexposition risque d'entraîner maux de tête et étourdissements
Aggravation des conditions préexistantes:	Aucune généralement connue.

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SECTION 4: MESURES DE PREMIERS SOINS:

Référence 2000

Contact avec les yeux:	Rincer immédiatement et abondamment les yeux à l'eau pendant 15 a 20 minutes. Contacter un médecin si l'irritation ou les symptômes de surexposition persistent.
Contact avec la peau:	Laver immédiatement et abondamment la peau à l'eau savonneuse. Contacter un médecin si l'irritation se développe ou persiste.
Inhalation:	En cas d'inhalation, faire sortir la victime à l'air frais. Si elle ne respire pas, lui administrer une respiration artificielle ou de l'oxygène par un personnel qualifié. Contacter immédiatement un médecin.
Ingestion:	En cas d'ingestion, NE PAS provoquer de vomissements. Contacter immédiatement un médecin ou un centre antipoison. Ne jamais rien administrer par la bouche à une personne qui aurait perdu connaissance.
Autres soins d'urgence:	En raison d'une aspiration possible dans les poumons, NE PAS provoquer de vomissements en cas d'ingestion. Faire boire un verre d'eau pour diluer le matériau dans l'estomac. En cas de vomissements naturels, faire pencher la personne pour réduire le risque d'aspiration.

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SECTION 5: MESURES DE LUTTE CONTRE LES INCENDIES

Référence 2000

Point d'éclair:	Aucunes Données
Agent extincteur:	Utiliser une mousse antialcool, du dioxyde de carbone, de la poudre extinctrice, de l'eau pulvérisée ou un jet diffusé lors de l'extinction d'incendies impliquant ce matériau
Équipement protecteur:	De même que dans tout incendie, porter un appareil respiratoire autonome par pression, MSHA/NIOSH (approuvé ou équivalent) et un équipement de protection complet.

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SECTION 6: MESURES EN CAS DE DISPERSION ACCIDENTELLE

Référence 2000

Précautions personnelles:	Utiliser un équipement de protection individuel tel qu'il l'est indiqué en section 8.
Mesures de nettoyage d'un déversement:	Absorber tout déversement à l'aide d'un matériau inerte (comme du sable sec ou de la terre par exemple), puis placer dans un récipient pour déchets chimiques. Fournir une aération. Nettoyer immédiatement tout déversement en respectant les précautions listées dans la section concernant l'équipement de protection.
Précautions environnementales:	Éviter toute décharge dans les égouts pluviaux, les fossés et les voies d'eau.

Haut de page

SECTION 7: MANIPULATION ET ENTREPOSAGE

Référence 2000

Manipulation:	Utiliser avec une aération adéquate. Éviter de respirer des vapeurs et tout contact avec les yeux, la peau et les vêtements.
Entreposage:	Entreposer dans un endroit frais, sec, bien aéré, à l'écart de toute source de chaleur, de matériaux combustibles et de substances incompatibles. Conserver le récipient hermétiquement fermé lorsqu'il n'est pas utilisé.
Habitudes d'hygiène:	Bien se laver après toute manipulation. Éviter tout contact avec les yeux et la peau. Éviter toute inhalation de vapeur ou de brouillard.

Haut de page

SECTION 8: PROTECTION CONTRE L'EXPOSITION, PROTECTION PERSONNELLE

Référence 2000

Mesures d'ingénierie:	Utiliser une mesure d'ingénierie telle que des enceintes d'isolement, une ventilation aspirante locale ou toute autre mesure ingénierie pour contrôler les niveaux aérogènes en dessous des limites d'exposition recommandées. Une bonne aération générale devrait être suffisante pour contrôler les niveaux aérogènes. Lorsque des systèmes de ce type ne sont pas efficaces, porter un équipement de protection individuel adéquat, qui fonctionne de manière satisfaisante et respecte les normes OSHA ou d'autres normes reconnues. Consulter les procédures locales pour ce qui est de la sélection, formation, inspection et maintenance de l'équipement de protection individuel.
Description de la protection de la peau:	Le port de gants résistants aux produits chimiques et de lunettes de protection contre les produits chimiques, de masque protecteur et de tablier ou combinaison synthétique est fortement conseillé pour éviter tout contact avec les yeux, la peau ou les vêtements
Description du matériel de protection des mains:	Porter des gants de protection appropriés. Consulter les données de fabrication des gants pour obtenir les données de perméabilité.
Protection des yeux/du visage:	Porter des lunettes de protection appropriées ou des lunettes anti-éclaboussures tel qu'il l'est décrit dans 29 CFR 1910.133, réglementation sur la protection des yeux et du visage OSHA ou la norme européenne EN 166.
Protection respiratoire:	Un appareil de protection respiratoire à adduction d'air filtré NIOSH avec une cartouche de produits chimiques anti-vapeurs organiques peut être admissible dans certaines circonstances lorsque les concentrations aérogènes sont censées dépasser les limites d'exposition. La protection fournie par les appareils de protection respiratoire à adduction d'air est limitée. Utiliser un respirateur à adduction d'air à pression positive s'il existe un risque de dégagement non contrôlé, que les niveaux d'exposition ne sont pas connus ou dans toute autre circonstance dans lesquelles les appareils de protection respiratoire à adduction d'air n'offrent pas une protection adéquate.
L'Autre Protecteur:	Les installations entreposant ou utilisant ce matériau doivent être équipées d'un basin oculaire et d'une douche de contamination.

Directives des produits:	Type de directive	l'information de directive
Ethylene glycol	ACGIH TLV-STEL	100 mg/m3 Ceiling (Aerosol only)
Talc (powder), containing no asbestos fibers	ACGIH TLV-TWA	2 mg/m3 (Respirable)
	OSHA PEL-TWA	20 mg/m3
Titanium dioxide	OSHA PEL-TWA	15 mg/m3
	ACGIH TLV-TWA	10 mg/m3

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SECTION 9: CARACTÉRISTIQUES PHYSIQUES ET CHIMIQUES

Référence 2000

État/Apparence physique:	Liquide
Couleur:	Blanc
pH:	8.5 to 9.5
Densité de vapeur	plus grand que 1 (air = 1)
Densité:	10 - 12 Lbs./gal.
Formule moléculaire:	Mélange
Masse moléculaire:	Mélange
Point d'éclair:	Aucunes Données
VOC:	: 36gm/l (Includes Water)" ": 99 gm/l (Excludes Water)

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SECTION 10: STABILITÉ ET RÉACTIVITÉ

Référence 2000

Stabilité chimique:	Stable dans des températures et pressions normales.
Conditions à éviter:	Chaleur, flammes, matériaux incompatibles ou temps de gel ou températures inférieures à 0 deg. C (32 deg. F).
Incompatibilité avec les autres matériaux:	Agents oxydants. Acides forts et alcalis.
Polymérisation dangereuse:	Non signalé.
Produits de décomposition dangereux:	Toute combustion incomplète risque de produire du monoxyde de carbone et d'autres gaz toxiques.

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SECTION 11: INFORMATIONS TOXICOLOGIQUES

Référence 2000

Talc (powder), containing no asbestos fibers

Cancérogénicité: IARC : Groupe 3 : sans classification quant à l'action cancérogène pour les êtres humains

Titanium dioxide

Effets sur la peau: Peau - Lapin; Standard Draize : 300 ug/3D; (Intermittent) Mild. (RTECS)

Effets d'ingestion : Ingestion - Rat TDLo: 60 gm/kg; Gastrointestinal - hypermotility, diarrhea Gastrointestinal - other changes. (RTECS)

Cancérogénicité: IARC : Groupe 3 : sans classification quant à l'action cancérogène pour les êtres humains

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SECTION 12: INFORMATIONS ÉCOLOGIQUES

Référence 2000

Écotoxicité: Aucune donnée d'écotoxicité n'a été découverte pour ce produit.

Destinée environnementale: Aucune information environnementale n'a été découverte pour ce produit.

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SECTION 13: CONSIDÉRATION RELATIVES À L'ÉLIMINATION DES DÉCHETS

Référence 2000

Disposition de rebut: Consultez avec les directives des USA EPA énumérées dans la partie 261,3 de 40 CFR pour les classifications de la perte dangereuse avant la disposition. En outre, consultez avec votre état et conditions de rebut locales ou directives, si c'est approprié, d'assurer la conformité. Chargez-vous de la disposition dans l'accord à l'cEpa et/ou l'état et les directives locales.

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SECTION 14: INFORMATIONS RELATIVES AU TRANSPORT

Référence 2000

Numéro UN DOT: Aucunes Données

Classe de dangers DOT: Aucunes Données

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SECTION 15: INFORMATIONS SUR LA RÉGLEMENTATION

Référence 2000

Ethylene glycol

TSCA 8(b) : État de l'inventaire : Énuméré

État: Listed in the New Jersey State Right to Know list.
Listed in the Pennsylvania Hazardous Subsatnces list.

Canada DSL : Énuméré

Nepheline Syenite

TSCA 8(b) : État de l'inventaire : Non énuméré

Canada DSL : Énuméré

Non-hazardous ingredients

État: Contains calcium carbonate (CAS:1317-65-3), which is listed in the TSCA inventory.

Talc (powder), containing no asbestos fibers

TSCA 8(b) : État de l'inventaire : Énuméré

État: Listed in the New Jersey State Right to Know list.
Listed in the Pennsylvania Hazardous Subsatnces list.

Canada DSL : Énuméré

Titanium dioxide

TSCA 8(b) : État de l'inventaire : Énuméré

État: Listed in the New Jersey State Right to Know list.
Listed in the Pennsylvania Hazardous Subsatnces list.

Canada DSL : Énuméré

Proposition 65: AVERTISSEMENT: Ce produit contient un produit chimique connu de l'état de la Californie pour causer des défauts de cancer et de naissance ou tout autre mal reproducteur.

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SECTION 16: INFORMATIONS SUPPLÉMENTAIRES

Date de révision du MSDS: "04/30/2006"

Auteur du MSDS: Actio Corporation

Annulation:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific materials designated. Refer to individual product safety Data sheets when using more than one product in combination with another.

Références :

1. OSHA Hazard Communication Standard, 1910.1200 and Z Tables.
2. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical Hazards.
3. Sax Dangerous Properties of Industrial Materials. Tenth Edition.
4.Hawleys Condensed Chemical Dictionary, Thirteenth Edition
5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International Research on Cancer, 2004.
6. Industrial Hygiene and Toxicology, by F.A. Patty.
7. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data Bank (HSDB).
8. National Toxicology Program (NTP) Tenth Report on Carcinogens, 2002.
9. Brethericks Reactive Chemical Hazards Database. Version 2.
10. Gassarett and Doulls Toxicology, The Basic Science of Poisons.
11. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998.
12. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environmental and Biological Exposure Indices. TLV Booklet, 2003.

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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 IDENTIFICATION

Product Name:	**FORMULA 496905 ZENASTICK RP**
Manufacturer's Name:	ZENEX International
Manufacturer's Address:	7777 First Place, Cleveland Ohio 44146
Manufacturer's Phone Number:	(440) 232-4155
Emergency Phone Number:	1-800-535-5053
Proper Shipping Name:	Consumer Commodity, ORM-D
Effective Date:	10-15-01

SECTION 2 IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name:	**CAS No.:**	**TLV:**
Heptane	142-82-5	400ppm
Butane	106-97-8	800ppm
Acetone	67-64-1	500ppm
Styrene-Butadiene Polymer	9003-55-3	Not established
Propane	74-98-6	2500ppm

SECTION 3 PHYSICAL DATA

Boiling Point:	<0 to 212^0 F	Specific Gravity(H_2O=1):	0.7 $\pm$ 0.1
Solubility in Water:	Nil	Evaporation Rate:	Slower than Ether
Vapor Density(Air=1):	Heavier than air	pH:	NA

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	<0^{O}F			
Flammable Limits:	LEL:	1.1	UEL:	12.8
Extinguishing Media:	Use water fog, dry chemical or carbon dioxide.			
Special Fire Fighting Procedures:	Aerosol cans may rupture when heated.			
Unusual Fire and Explosion Hazards:	Heated cans may burst			

SECTION 5 REACTIVITY DATA

Stability: Unstable_____
Stable __X___

Incompatability (Materials to Avoid):	None known.
Conditions to Avoid:	High temperatures.
Hazardous Decomposition or Byproducts:	In fire, will decompose to carbon dioxide, carbon monoxide.
Hazardous Polymerization:	Will not occur

SECTION 6 STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storing:

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

STORE AT TEMPERATURES BELOW 120°F
KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY
KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7 HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SKIN: Skin irritant. Will cause defatting of skin. Effects are reversible.
EYES: Eye irritant. Will cause redness and burning sensation.
INHALATION: Effects of overexposure include headache, dizziness, nausea, loss of coordination, nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
INGESTION: Aspiration hazard if swallowed.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, give oxygen, get medical attention.
INGESTION: DO NOT induce vomiting. Seek medical attention immediately.
Note: Never give anything by mouth to an unconscious or convulsing victim.
Keep person warm and quiet.

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Self-contained breathing apparatus if above TLV limit.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: None required if spraying.
Eye Protection: As with all cleaners, ZENEX supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protective Equipment: Long sleeves and long pants.
Work/Hygienic Practices: Do not smoke while using. Wash hands after use.

SECTION 9 SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method:

Dispose as hazardous waste in accordance with EPA RCRA.

SECTION 10 REGULATORY INFORMATION

SARA Title III, Section 313 Components:

None

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information. 496905

Material Safety Data Sheet X30 CONTACT CEMENT DATE: 05/24/07
REVISED: 05/24/07
MANUFACTURER: LEECH PRODUCTS, INC.
1430 West Fourth Street
Hutchinson, KS 67504-2147
EMERGENCY TELEPHONE NUMBER (CHEMTREC): 800-424-9300 INFORMATION TELEPHONE NUMBER: 620-669-0145
Trade Name: Flammable Adhesive (Contact Cement)
Cas Number: Mixture
Product Code: AL4400
DOT Hazard Class: 3
UN Number: 1133
Shipping Name: Adhesives
Packing Group: II

SECTION I PRODUCT IDENTIFICATION

CHEMICAL FAMILY: Chloroprene rubber and synthetic resin solution in a hydrocarbon solvent blend.
HMIS RATING:
HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0 PPI: B

SECTION II HAZARDOUS INGREDIENTS

Ingredient Name	CAS Number	Percent	TSCA
VM&P NAJPHTHA	64742-96-6	25-50	Y
TOLUENE	108-883	15-40	Y
METHYL ETHYL KETONE	78-93-3	7-13	Y

NOTE: OSHA has set a maximum peak concentration for toluene of 500 ppm for 10 minutes/8 minutes. CARCINOGEN: None listed.

SECTION III PHYSICAL DATA

Appearance/Color: CLEAR
Boiling Range: 175.F
Evaporation Rate: Faster than n-Butyl Acetate
% Volatile Weight: 79.%
% Volatile Volume: Not Available
Specific Gravity: 0.861
Weight/Volume Measure: 7.17
EPA Method 24 VOC: 678.9 g/L

Photo Chem Reactive Only VOC: 678.1

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability Class: IB
Flash Range: 21.F
Seta flash
Explosive Range: .08%
12.1%

EXTINGUISHING MEDIA:
Foam, dry chemical, carbon dioxide, water spray or fog

SPECIAL FIREFIGHTING PROCEDURES:
Avoid breathing smoke. Use air supplied rescue equipment for enclosed area. Water tends to spread burning liquid if large amounts used

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Flammable: Vapors may ignite explosively and/or cause flash fires. Eliminate sources of ignition. No smoking. Use adequate cross ventilation sufficient to remove odor of solvent and vapors. Electrically ground all containers during transfer.

SECTION V HEALTH HAZARD DATA

Permissible Exposure Level:
SEE SECTION VIII.

ACUTE EFFECTS OF OVEREXPOSURE:
INHALATION: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconscious and even asphyxiation.
INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. May be harmful if swallowed
EYE CONTACT: Can cause severe irritation, redness, tearing, blurred vision.
SKIN CONTACT: Removal of skin oils, irritation, dermatitis, sensitization.
INGESTION: May be harmful if swallowed; can cause gastro-intestinal tract effects.
FIRST AID:

Inhalation:	Get fresh air, if necessary call physician.
Skin:	Wash with mild soap and water, apply a mild cream.
Eyes:	Flush with water for at least 15 minutes.
Ingestion:	Call Poison Center Immediately. DO NOT INDUCE VOMITING

SECTION VI REACTIVITY DATA

STABILITY: Stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong alkalis, strong acids or bases.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Fumes, smoke, carbon monoxide, carbon dioxide in the case of incomplete combustion in air.
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Fire, sparks, static electricity.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all ignition sources. Keep people away. Recover free liquid. Add adsorbent (sand, earth, sawdust, etc.) to spill area. Avoid breathing vapors. Ventilate confined spaces. Open all windows and doors. Use non-sparking tools (shovels, scrapers, etc.)

Keep petroleum products out of sewers and water sources by diking or impounding. Advise authorities if product has or may enter sewers.
WASTE DISPOSAL METHOD: Allow volatile portion to evaporate in well ventilated areas. Dispose or remaining material in accordance with applicable regulations
LARGE SPILL: Dispose of material or contaminated absorbent in accordance with Federal, State and Local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Occupational Exposure Limits:

	ACTIH TLV	ACGTIH TLV-C	ACGIH STEL	OSHA STEL	OSH PEL
VM&MP NAPHTAH	300.00 PRM	N/EST	N/EST	N/EST	N/EST
TOLUENE	50.00 PPM	N/EST	N/EST	N/EST	200.00 PPM
METHYL ETHYL KETONE	200.00 PPM	N/EST	300.00 PPM	N/EST	200.00 PPM

RESPIRATORY PROTECTION: Use NIOSH approved hydrocarbon vapor canister or supplies air respiratory protection in confined or enclosed spaces or where vapor concentration exceeds TLV, PEL or STEL.
VENTILATION:
LOCAL EXHAUST: Sufficient to maintain exposure below TLV, PEL or STEL.
MECHANICAL: Use explosion proof equipment.
SPECIAL: None
OTHER: No smoking or open light.
PROTECTIVE GLOVES: Use chemical resistant gloves if needed to avoid repeated or prolonged skin contact.
EYE PROTECTION: Use splash goggles or face shields when eye contact may occur.
OTHER PROTECTIVE EQUIPMENT: Use chemical resistant apron or other clothing if needed, to avoid repeated or prolonged skin contact.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed when not in use. Do not store or handle near heat, sparks, flame or strong oxidants. Avoid breathing vapors. Provide adequate ventilation.
OTHER PRECAUTIONS: Containers of this material may be hazardous when empty since emptied containers retain product residue (vapor, liquid and solid). Never use welding or cutting torch on or near drum (even when empty) because product (even just residue) can ignite explosively. All hazard precautions given in data sheet must be observed. Store at 60-95 degrees F and out of the sun. For professional or industrial use only. Keep out of reach of children. Not for consumption. No smoking. Do not breathe fumes. Avoid contact with body. Turn off all pilot lights, flames, stoves, heaters, electric motors, welding equipment an other sources of ignition. Contact lens wearers take appropriate precautions.

SECTION X ADDITIONAL REGULATORY INFORMATION

-SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
TOLUENE	108-88-3	15-40
METHYL ETHYL KETONE	78-93-3	7-13

-PROP 65 (TERATOGEN)
WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

Ingredient Name	CAS Number	Percent
TOLUENE	108-883-	15-40

DISCLAIMER

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of LEECH PRODUCTS, INC., knowledge, or is obtained from sources believed by LEECH PRODUCTS, INC., to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. LEECH PRODUCTS, INC., assumes no responsibility for injuries proximately caused by abnormal use of the material even if reasonable safety procedures are followed.

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

THIS MSDS IS OFFERED IN CANADIAN-FRENCH UPON REQUEST.

ON PEUT DEMANDER CETTE MSDS A LA LANGUE FRANCAISE-CANADIENNE.

PRODUCT NAME : DAP 2000 HEAVY DUTY ADHESIVE
UPC NUMBER : 7079870555, 7079870565
PRODUCT USE/CLASS : Construction Adhesive

SUPPLED BY:
DAP INC.
475 FINCHDENE SQUARE
UNITE 5
SCARBOROUGH ONTARIO M1X 1B7

24 HOUR EMERGENCY:
TRANSPORTATION: 1-800-535-5053 (352-323-3500)
MEDICAL : 1-800-327-3874 (513-558-5111)

PREPARE DATE : 02/03/1999
REVISION NO. : 8
REVISION DATE: 07/08/2003
REVIEWED: 01/15/2005

GENERAL INFORMATION:
DAP INC. : 1-888-DAP-TIPS (1-888-327-8477)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
01	N-Hexane	110-54-3	5.0-10.0 %
02	Aliphatic Petroleum Distillate	64742-89-8	15.0-20.0 %
03	2-Methyl Pentane	107-83-5	5.0-10.0 %
04	3-Methyl Pentane	96-14-0	5.0-10.0 %

	EXPOSURE LIMITS					
	ACGIH		OSHA		COMPANY	
ITEM	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	50 ppm	N.E.	50 ppm	N.E.	N.E.	NO
02	400 ppm	N.E.	400 ppm	N.E.	N.E.	NO
03	N.E.	N.E.	N.E.	N.E.	N.E.	NO
04	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states.

(Continued on Page 2)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER! Extremely flammable liquid and vapor. Vapor harmful. Harmful or fatal if swallowed. Vapors may cause flash fire or explosion. Aspiration hazard if swallowed - can enter lungs and cause damage. Harmful if inhaled.

POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May irritate skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor harmful if inhaled. Vapor may irritate nose and upper respiratory tract. Vapor inhalation may affect the brain or nervous system causing dizziness, headache or nausea.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. If ingested, this product may cause vomiting, diarrhea, and depressed respiration.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated permanent brain and nervous system damage with prolonged and repeated occupational overexposure to solvents. Hexane exposure may cause damage to the arms and legs which may be permanent. Symptoms include: loss of memory, loss of intellectual ability, and loss of coordination.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: None known.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water until irritation subsides. Contact a physician.

SKIN CONTACT: Wash with soap and water.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately. Note: Only trained personnel should give artificial respiration or administer oxygen.

(Continued on Page 3)

SECTION 4 - FIRST AID MEASURES

INGESTION: DO NOT INDUCE VOMITING. If irritation or complications arise, contact a physician or Regional Poison Control Center immediately.

COMMENTS: None.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: -34 C (SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A.
UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.E.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable. Material will readily ignite at room temperature. Vapors may form an explosive mixture with air. Vapors can travel long distances to a source of ignition and flashback. Containers may explode if exposed to extreme heat. Eliminate sources of ignition: heat, electrical equipment, sparks, and flames. Do not put in contact with oxidizing or caustic materials.

SPECIAL FIREFIGHTING PROCEDURES: Full protective equipment, including self-contained breathing apparatus, is recommended to protect from combustion products. Cool exposed containers with water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Dike spill area. Immediately eliminate sources of ignition. Use absorbent material or scrape up dried material and place into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well ventilated area.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep away from heat, spark, and flame. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 49 degrees C.

OTHER PRECAUTIONS: Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Do not take internally. Construction and repair activities can adversely affect indoor air quality. Consult with the occupants or a representative (i.e. maintenance, building

(Continued on Page 4)

SECTION 7 - HANDLING AND STORAGE

manager, industrial hygienist, or safety officer) to determine ways to minimize any impact.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposure below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, etc.) for vapors before entering.

RESPIRATORY PROTECTION: If 8 hour exposure limit or value is exceeded for any component, use an approved NIOSH/OSHA respirator. Consult your safety equipment supplier and the OSHA regulation, 29 CFR 1910.134 for respirator requirements. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

EYE PROTECTION: Goggles or safety glasses with side shields.

SKIN PROTECTION: Solvent impervious gloves.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash and solvent impervious apron if body contact may occur.

HYGIENIC PRACTICES: Remove contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 66 - 71 C	VAPOR DENSITY	: Is heavier than air
ODOR	: Gasoline-like		
APPEARANCE	: Gray color paste	EVAPORATION RATE	: Is faster than Butyl Acetate
SOLUBILITY IN H2O	: Negligible		
SPECIFIC GRAVITY	: 1.3058		
VAPOR PRESSURE	: 125 mm Hg @ 20 C		
PHYSICAL STATE	: Paste		

See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx, NOx

(Continued on Page 5)

SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

TOXICITY DATA

ITEM	ORAL-LD50	SKIN-LD50	INHALATION-LC50
01	28710 mg/kg(rat)	N.A.	N.A.

n-Hexane has shown experimental teratogenic and reproductive affects.

(See Section 16 for abbreviation legend)

SECTION 12 - ECOLOGICAL INFORMATION

No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State, and Local Standards. Discarded material should be incinerated at a permitted facility. Liquids cannot be disposed of in a landfill. Do not reuse empty container. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261): None, yields no liquid component when evaluated by EPA method 1311 (TCLP)

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Consumer Commodity

DOT HAZARD CLASS: ORM-D

DOT UN/NA NUMBER: NONE PACKING GROUP: NONE

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other

(Continued on Page 6)

SECTION 14 - TRANSPORTATION INFORMATION

modes of transportation and/or to non-domestic destinations.

Shipped in accordance with 49 CFR as part of a transborder shipment.

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313:
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
N-Hexane	110-54-3	5.0-10.0%

TOXIC SUBSTANCES CONTROL ACT:
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

CHEMICAL NAME	CAS NUMBER
None.	

All ingredients are listed on the TSCA inventory

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: Class B2, Class D2B.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 04/17/2000

VOC less water, less exempt solvent: 330-340 g/L (25-26 weight%)
VOC material : 330-340 g/L

(Continued on Page 7)

SECTION 16 - OTHER INFORMATION

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
PEL - PERMISSIBLE EXPOSURE LIMIT
NTP - NATIONAL TOXICOLOGY PROGRAM
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986
STEL - SHORT TERM EXPOSURE LIMIT
TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)
VOC - VOLATILE ORGANIC COMPOUND
NJRTK - NEW JERSEY RIGHT TO KNOW LAW
N.D. - NOT DETERMINED

MSDS 17008

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End OF MSDS >

M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : BEATS THE NAIL ENVIROLINE - SQUEEZE TUBE
UPC NUMBER : 05960

PRODUCT USE/CLASS : Latex Adhesive

MANUFACTURER:
DAP INC.
2400 BOSTON STREET
BALTIMORE, MD 21224

24 HOUR EMERGENCY:
TRANSPORTATION: 1-800-535-5053 (352-323-3500)
MEDICAL : 1-800-327-3874 (513-558-5111)

PREPARE DATE : 09/13/1996
REVISION NO. : 4
REVISION DATE: 01/04/2000

GENERAL INFORMATION:
DAP INC. : 1-888-DAP-TIPS (1-888-327-8477)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
01	Ethanol	64-17-5	1.0-5.0 %

EXPOSURE LIMITS

ITEM	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	COMPANY TLV-TWA	SKIN
01	1000 ppm	N.E.	1000 ppm	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION! May irritate eyes, skin, nose, and respiratory tract.

(Continued on Page 2)

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor harmful if inhaled. Vapor may irritate nose and upper respiratory tract. Vapor inhalation may affect the brain or nervous system causing dizziness, headache or nausea.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed. If ingested this product may cause vomiting, diarrhea, and depressed respiration.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated permanent brain and nervous system damage with prolonged and repeated occupational overexposure to solvents.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: None known.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water until irritation subsides. Contact a physician.

SKIN CONTACT: Wash with soap and water.

INHALATION: Remove to fresh air. Contact a physician immediately.

INGESTION: DO NOT INDUCE VOMITING. Contact a physician or Regional Poison Control Center immediately.

COMMENTS: None.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200 F (SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A.
UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.E.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

(Continued on Page 3)

SECTION 5 - FIRE FIGHTING MEASURES

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Scrape up dried material and place into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well ventilated area.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 degrees F.

OTHER PRECAUTIONS: Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Do not take internally. Use in a well ventilated area. Provide fresh air such that chemical odors cannot be detected during use and while drying. Construction and repair activities can adversely affect indoor air quality. Consult with the occupants or a representative(i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize any impact.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposure below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, etc.) for vapor before entering.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Not required under normal usage and adequate ventilation.

EYE PROTECTION: Goggles or safety glasses with side shields.

SKIN PROTECTION: Gloves recommended for repeated or prolonged contact with skin.

OTHER PROTECTIVE EQUIPMENT: None.

(Continued on Page 4)

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

HYGIENIC PRACTICES: Wash contaminated clothing before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 210 - 220 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Mild Odor		
APPEARANCE	: White Paste	EVAPORATION RATE	: Is slower than Butyl Acetate
SOLUBILITY IN H2O	: Miscible		
SPECIFIC GRAVITY	: 1.4115		
VAPOR PRESSURE	: 17.5 mm Hg @ 68F.		
PHYSICAL STATE	: Paste		

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx, NOx

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

No Information.

(Continued on Page 5)

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State, and Local Standards. Do not reuse empty containers. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261): None.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by D.O.T.

DOT HAZARD CLASS: NONE

DOT UN/NA NUMBER: NONE PACKING GROUP: NONE

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313:
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
No SARA Section 313 components exist in this product.		

TOXIC SUBSTANCES CONTROL ACT:
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

CHEMICAL NAME	CAS NUMBER
No information is available.	

NEW JERSEY RIGHT-TO-KNOW:
The following materials are non-hazardous, but are among the top five components in this product:

(Continued on Page 6)

SECTION 15 - REGULATORY INFORMATION

CHEMICAL NAME	CAS NUMBER
Water	7732-18-5
Vinyl acetate copolymer	TSRN-618608-5056P
Plasticizer	TSRN-618608-5064P
Calcium Carbonate	1317-65-3

PENNSYLVANIA RIGHT-TO-KNOW:
The following non-hazardous ingredients are present in the product at greater than 3%:

CHEMICAL NAME	CAS NUMBER
Water	7732-18-5
Vinyl acetate copolymer	proprietary
Plasticizer	proprietary
Calcium carbonate	1317-65-3

CALIFORNIA PROPOSITION 65:
WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

CHEMICAL NAME	CAS NUMBER
No Proposition 65 chemicals exist in this product.	

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

(Continued on Page 7)

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 02/01/1997

REASON FOR REVISION:
SECTION 1: Address change and new emergency contact phone numbers.

VOC less water, less exempt solvent: 80-85 gm/l(6%)
VOC material: 50-55 gm/l(5-6%)

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
PEL - PERMISSIBLE EXPOSURE LIMIT
NTP - NATIONAL TOXICOLOGY PROGRAM
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986
STEL - SHORT TERM EXPOSURE LIMIT
TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)
VOC - VOLATILE ORGANIC COMPOUND
NJRTK - NEW JERSEY RIGHT TO KNOW LAW
N.D. - NOT DETERMINED

MSDS# 77086

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End OF MSDS >

Material Safety Data Sheet

An RPM Company

24 Hour Emergency Phone Numbers:
Medical/Poison Control:
In U.S.: Call 1-800-222-1222
Outside U.S.: Call your local poison control center
Transportation/National Response Center:
1-800-535-5053
1-352-323-3500

NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
On peut demader cette fiche signalétique (MSDS) a la langue francaise-canadienne.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name:	Kwik Seal Tub & Tile Adhesive Caulk - All Colors	**Revision Date:**	05/21/2008
Product UPC Number:	070798710504, 070798710207, 070798710238	**Supercedes:**	04/27/2005
Product Use/Class:	Latex Caulk	**MSDS Number:**	00010009605
Manufacturer:	**DAP Canada** **475 Finchdene Square Unit 5** **Scarborough, Ontario M1X 1B7** **888-327-8477 (non-emergency)**		

Section 2 - Hazards Identification

Emergency Overview: A colored paste product with a very slight ammonia odor. WARNING! May cause eye, skin, nose, throat and respiratory tract irritation. May cause eye or skin irritation. Harmful if swallowed or absorbed through the skin. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation of high concentrations may cause headache, nausea, and dizziness. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation may cause mild irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death. Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. If ingested, may cause vomiting, diarrhea, and depressed respiration. Ingestion may result in obstruction when material hardens.

Effects Of Overexposure - Chronic Hazards: Repeated or prolonged exposure may cause skin, respiratory, kidney and

liver damage. Prolonged and repeated skin contact may cause irritation and possibly dermatitis.

The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2).
Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system.

Formaldehyde vapor is a known animal carcinogen according to OSHA and NTP and is considered possibly carcinogenic to humans by inhalation. The International Agency for Research on Cancer considers formaldehyde to be a human carcinogen.

A mixture of diisodecyl phthalate and diisononyl phthalate has been tested in a two-generation toxicity study in laboratory animals. No effects on reproductive parameters were seen. However, a small but statistically significant increase in early offspring mortality was seen at high oral doses. The significance of this to humans is uncertain.

The mixture of phthalate esters contained within this product has been shown to cause developmental effects at high doses in laboratory animals when administered orally by gavage in a developmental study and developmental and fertility effects when administered at high doses by feed in a two-generation reproduction study. The potential risk from occupational and consumer exposure is considered to be very low, based on limited relevance of the rodent findings to humans and the large safety margins between exposure and the effect levels.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	Not Listed.	Not Listed.	Possible carcinogen.	Not Listed.
14808-60-7	Silica, crystalline	Suspected human carcinogen.	Not Listed.	Human carcinogen.	Known carcinogen.
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Human carcinogen.	Anticipated carcinogen.

Section 3 - Composition / Information On Ingredients

Chemical Name	CASRN	Wt%
Limestone	1317-65-3	30-60
Branched and linear phthalates	Proprietary	1-5
Titanium dioxide	13463-67-7	0.1-1.0
n-Butyl acetate	123-86-4	0.1-1.0
Silica, crystalline	14808-60-7	0.1-1.0
Ethylene glycol	107-21-1	0.1-1.0
Formaldehyde	50-00-0	<0.02

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical aid if symptoms persist. If skin irritation persists, call a physician. Remove and wash contaminated clothing. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. If ingested, drink 2 glasses of water. Immediately see a physician. Never give anything by mouth to an unconscious person.

Note to Physician: None.

COMMENTS: If over-exposure occurs, call your local poison control center.

Section 5 - Fire Fighting Measures

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Wash thoroughly after handling.

Storage: Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Close container after each use. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Limestone	1317-65-3	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	No
Branched and linear phthalates	Proprietary	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Titanium dioxide	13463-67-7	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
n-Butyl acetate	123-86-4	150 PPM	200 PPM	N.E.	150 PPM	N.E.	N.E.	No
Silica, crystalline	14808-60-7	0.025 MGM.	N.E.	N.E.	10/(%SiO2 + 2) MGM3	N.E.	N.E.	No
Ethylene glycol	107-21-1	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Formaldehyde	50-00-0	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No

Exposure Notes:

14808-60-7 The 2002 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

The TLVs for crystalline silica represent the respirable fraction.

OSHA PEL TWA for Quartz is calculated using the following formula: 10 mg/m3/(% SiO2 + 2). Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics.

..... Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

50-00-0 Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.

Precautionary Measures: Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10-hour work shift.

Skin Protection: Rubber gloves. Natural rubber, butyl rubber and polyvinyl chloride gloves are not suitable protection against the phthalates contained within this product; neoprene is recommended.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

Section 9 - Physical And Chemical Properties

Boiling Range:	210 - 220 F	**Vapor Density:**	Heavier Than Air
Odor:	Very Slight Ammonia	**Odor Threshold:**	Not Established

Color:	Colored	**Evaporation Rate:**	Slower Than n-Butyl Acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	1.6
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste	**Flammability:**	Non-Flammable
Flash Point, F:	> 200 F	**Method:**	(Seta Closed Cup)
Lower Explosive Limit, %:	Not Established	**Upper Explosive Limit, %:**	Not Established

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
123-86-4	n-Butyl acetate	Rat:10768 MG/KG	Rat:2000 P
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg
50-00-0	Formaldehyde	----------	Rat:203 mg/m3

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA and NTP identify formaldehyde as a potential carcinogen. IARC identifies formaldehyde as a human carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the significance of which to humans is unknown. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits.
Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.
In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
Mercury & compounds	7439-97-6

Canadian WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class: Not Controlled.

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

Volatile Organic Compounds (VOC), less water less exempts: g/L: 25.4 lb/gal: 0.2 wt:wt%: 1.1

Volatile Organic Compounds (VOC), less water less exempts, less LVP -VOCs: wt:wt%: 0.6

REASON FOR REVISION: Periodic Update

Legend: N.A. – Not Applicable ACGIH – American Conference of Governmental Industrial Hygienists

N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit	STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	MSDS – Material Safety Data Sheet
C – Degree Celsius	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

MATERIAL SAFETY DATA SHEET

PRODUCT: HANDI FOAM®

- Classified as Hazardous according to the criteria of NOHSC -

Ramset Fasteners (Aust) Pty Limited ACN 004 297 009
A Division of ITW Construction Products
Maroondah Highway,
Mooroolbark. Victoria. Australia. 3136
Telephone: 03 9726 6222
Emergency Telephone Number: 03 9726 6222 (Monday to Friday. 8 am to 5 pm EST)

PRODUCT IDENTIFICATION

Product Name:	Handi Foam®
Manufacturer's Product Code:	HDFM105, HDFM205, HDFM605
Other Names:	None
UN Number:	UN1956
Dangerous Goods Code:	2.2
Hazchem Code:	2T
Poisons Schedule:	S6

Primary Use:
A two component expanding foam for filling large cavities. The two components are under pressure. The operator releases a trigger, which causes the components to mix together through a static mixing nozzle. The components react rapidly to form a solid foam mass.

Physical Description / Properties

Appearance:	Part A (Isocyanate): Amber to dark brown liquid. Froths when released from container. Part B (Resin): Light yellow to amber coloured liquid. Froths when released from container.
Specific Gravity:	1.2 (Both components)
Flammability Limit:	Not Flammable
Form:	Liquid
Boiling Point:	-26°C: 1,1,1,2 – Tetrafluoroethane
Vapour Pressure:	Contents under pressure 345 Kpa.
Flashpoint:	Not flammable
Solubility in Water:	Part A: Insoluble. Reacts to form a solid and CO_2. Part B: Partially soluble.
Other Properties:	None

Ingredients

Chemical Name	CAS Number	Proportion
Part A		
1,1,1,2 – Tetrafluoroethane	811-97-2	10 - 30%
4,4' – Diphenylmethane Diisocyanate (MDI)	101-68-8	30 – 60%
Higher Oligomers of MDI (Polymeric MDI)	9016-87-9	30 – 60%
Part B		
1,1,1,2 – Tetrafluoroethane	811-97-2	10 - <30%
Components not classified as hazardous		To 100%

PRODUCT: HANDI FOAM®

HEALTH HAZARD INFORMATION

Health Effects

Acute:

Eye – May cause irritation. May damage eyes due to adhesion.

Skin – Will adhere to skin. May cause localised irritation, reddening or swelling. Prolonged or repeated exposure may lead to sensitisation and /or contact dermatitis.

Inhaled – May irritate mucus membranes with tightness in chest, coughing or allergic asthma-like sensitivity. Extensive overexposure can lead to respiratory symptoms like bronchitis and pulmonary oedema. These effects are usually reversible.

Ingestion: May cause irritation to mucus membranes in the mouth and digestive tract.

Chronic:
Overexposure to 1,1,1,2 – Tetrafluoroethane may cause light-headedness, headaches or lethargy. Persons with cardiac arrhythmia may be at increased risk in severe overexposure.

Overexposure to MDI may cause sensitisation by inhalation.

First Aid

****Take a copy of this MSDS to the Doctor****

Eyes – Flush with water for at least 15 minutes with eyelids held open. Seek immediate medical attention.

Skin – Remove contaminated clothing. Acetone or nail polish remover will assist removal of the residue. DO NOT apply acetone or solvents to eyes or other sensitive skin areas. Acetone will defat skin and may cause dermatitis in some individuals. Wash skin thoroughly with soap and water and apply moisturiser. Alternatively, allow foam to harden and remove mechanically. Foam residue will come off skin gradually over a period of a few days. If irritation persists seek medical attention.

Inhaled – If breathing difficulty experienced, remove to fresh air. If symptoms persist seek medical attention.

Swallowed – Rinse out with plenty of water. If poisoning occurs, contact doctor or Poisons Information Centre. If swallowed do not induce vomiting. Give a glass of water.

First Aid Facilities – Eye wash stations

Advice to Doctor:
Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Limits:

None assigned by NOHSC

Exposure Guidelines	OSHA	ACGIH
MDI	0.020 ppm ceiling	0.005 ppm TWA
Higher oligomers of MDI	None Established	None Established
1,1,1,2 – Tetrafluoroethane	None Established	None Established

Engineering Controls:
Dilution ventilation to keep concentration below recommended limits

Personal Protection:

Eyes – Safety glasses with side shields, chemical goggles. Contact lenses pose a hazard.

Hands – Barrier cream and PVC gloves should be worn.

Feet – Rubber boots.

Respiratory system – Respirator in accordance with AS1716 *Respiratory Protective Devices*, where ventilation is not adequate.

Clothing – Wear long sleeved overalls. Eyewash unit should be present to flush eyes in the event of contamination.

Flammability:
Non flammable.

SAFE HANDLING INFORMATION

Storage and Transport.
Contents under pressure. Store in a cool, dry place. Ideal storage temperature is 16°C to 27°C. Storage above 32°C will shorten shelf life. Protect containers from physical abuse. Storage below 13°C will affect properties of dispensed foam. Protect product from freezing.

UN 1956 Class 2.2 Non Flammable Compressed Gas

Spills and Disposal
If either Part A or Part B are spilled on their own. Wear skin, eye and respiratory protection. Soak up material with absorbent and shovel into chemical waste container. Loosely cover container and remove from work area. Decontaminate waste and spill area with a solution of 0.2- 0.5% liquid detergent and 3 – 8 % concentrated ammonium hydroxide in water (5 – 10% sodium bicarbonate may be substituted for ammonium hydroxide). Use 10 parts of solution for each part of spill and allow to react for at least 10 minutes. Allow loosely covered

container to stand for several days before disposing of in accordance with directions from local authorities.
Cured foam can be removed from surfaces mechanically.

Fire / Explosion Hazard
Not flammable. Contents under pressure. High temperatures will raise the pressures in the containers, which may lead to rupturing. Extinguishing media include: dry chemical, carbon dioxide, halon 1211, chemical foam or water spray if used in large quantities. (water contamination will produce carbon dioxide. Fire fighters to wear self-contained breathing apparatus. Combustion of components or cured foam will result in decomposition to produce CO, CO2, NO and other oxides of nitrogen and carbon and traces of HCN or HCl.

Reactivity: Stable under recommended storage conditions.

Incompatibilities: Alcohols, strong bases, amines, metal compounds (such as small particle metal catalysts) and water.

OTHER INFORMATION

No data

CONTACT POINT

Product Manager – Construction Chemicals
03 9726 6222

MATERIAL SAFETY DATA SHEET

MSDS Name: POLYSEAMSEAL(R) ALL-PURPOSE ADHESIVE CAULK
MSDS Number: sD11511
Version Number 3
Revision Date: OCT-13-2005
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**POLYSEAMSEAL(R) ALL-PURPOSE ADHESIVE CAULK**
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**HENKEL CONSUMER ADHESIVES** 7405 PRODUCTION DRIVE MENTOR OH 44060
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
Emergency Phone (24 hour)	CHEMTREC (800) 424-9300
Chemtrec (outside-USA)	(703) 527-3887
Product Class	CAULK
Trade Name	**POLYSEAMSEAL**
Product Code	---

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
N-Butyl Acetate	0123-86-4	< 5.0	Y
Titanium Dioxide **	13463-67-7	< 5.0	Y
ETHYLENE GLYCOL	107-21-1	< 5.0	Y

Ingredient Notes:
Remaining ingredients are not considered OSHA hazardous.
**The main hazard for Titanium Dioxide is dust inhalation. Because of its incorporation into the caulk, exposure by inhalation is unlikely.

- -

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	High viscosity caulk
Appearance/Color:	White & colors
Odor:	Banana odor
Solubility (in water):	yes
pH Value, +/-.3:	7.5
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate

Vapor Density:	Heavier than air
% Volatile, Weight	approx. 30.%
% Volatile, Volume	approx. 45.%
Specific Gravity:	1.245
VOC (less H2O or exempt)	72 Gr/L, 3.9%

NOTE:
Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class	N/A
Flash Range:	Not Available
Explosive Range (LEL/UEL):	Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.
SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme
heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
ENTRY THROUGH...Inhalation and skin most likely

CARCINOGENICITY...
NTP? N/E | IARC Monographs? N/E | OHSA? NO
EFFECTS OF OVEREXPOSURE

Inhalation:	May cause nose or throat irritation.
Skin/Eye Contact:	May cause irritation.
Ingestion:	Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation:	If affected by inhalation, remove to fresh air.
Eye Contact:	Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact:	Wash skin thoroughly with soap and water.
Ingestion:	Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

CHRONIC HAZARDS

Swallowing ETHYLENE GLYCOL may cause gastrointestinal irritation. Butyl Acetate: Vapor harmful. May affect brain and nervous system causing dizziness, headaches or nausea. May cause severe eye irritation upon eye contact.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver or kidney damage or may cause cardiac arrhythmia. INTENTIONAL misuse of this product by deliberately inhaling its vapors may be harmful or fatal.

SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATABILITY:

None

CONDITIONS TO AVOID:

None

HAZARDOUS DECOMPOSITION PRODUCTS:

May produce oxides of carbon and oxides of nitrogen when burned.

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:

Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.

WASTE DISPOSAL METHOD:

Dispose of in accordance with Federal, State, and Local regulations.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
N-Butyl Acetate	150.00 PPM	N/est	200.00 PPM	200.00 PPM	150.00 PPM
Titanium Dioxide **	10.00 mg/F3	N/est	N/est	N/est	15.00 mg/F3
ETHYLENE GLYCOL	50.00 PPM	N/est	N/est	N/est	50.00 PPM

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)
Caulking compound, Non Regulated

SECTION X - REGULATORY INFORMATION:
SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 5.0

The following ingredients are registered for TSCA 12B

Ingredient Name	CAS Number	Percent
N-Butyl Acetate	0123-86-4	< 5.0
ETHYLENE GLYCOL	107-21-1	< 5.0

All chemical substances are TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment,and the health & safety of the users of this material.

MATERIAL SAFETY DATA SHEET

MSDS Name: SA-167 SILICONIZED ACRYLIC LATEX CAULK
MSDS Number: 16711-001
Version Number 2
MSDS Date: SEP-09-2002

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	SA-167 SILICONIZED ACRYLIC LATEX CAULK
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	OSI SEALANTS, INC.a Subsidiary of Sovereign Specialty Chems. 7405 PRODUCTION DRIVE MENTOR OH 44060
Information phone/Fax:	(440) 255-8900 (440) 974-8358
Emergency Phone (24 hour)	CHEMTREC (800) 424-9300
Chemtrec (outside-USA)	(703) 527-3887
Product Class	CAULK
Trade Name	PRO-SERIES
Product Code	16711-XXX

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
Titanium Dioxide **	13463-67-7	< 5.0	Y
ETHYLENE GLYCOL	107-21-1	< 2.0	Y
MINERAL SPIRITS	64742-48-9	< 2.0	Y

Ingredient Notes:
Remaining ingredients are not considered OSHA hazardous.
**The main hazard for Titanium Dioxide is dust inhalation. Because of its incorporation into the caulk, exposure by inhalation is unlikely.

- -

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	High viscosity caulk
Appearance/Color:	various colors
Solubility (in water):	yes
pH Value, +/-.3:	7.5

Boiling Range:	212.øF (100.øC)
Vapor Pressure (mmHg):	15.@ 68.øF (20.øC)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	approx. 20.%
% Volatile, Volume	approx. 30.%
Specific Gravity:	1.556
VOC (less H2O or exempt)	41 Gr/L (2%)

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class	N/A
Flash Range:	Not Available
Explosive Range (LEL/UEL):	Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.
SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme
heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
ENTRY THROUGH...Inhalation and skin most likely

CARCINOGENICITY...
NTP? N/E | IARC Monographs? N/E | OHSA? NO
EFFECTS OF OVEREXPOSURE

Inhalation:	May irritate respiratory tract.
Skin/Eye Contact:	May cause irritation.
Ingestion:	Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES
Inhalation: If affected by inhalation, remove to fresh air.
Eye Contact: Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact: Wash skin thoroughly with soap and water.
Ingestion: Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

- -

SECTION VI - STABILITY AND REACTIVITY
Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
Titanium Dioxide **	10.00 mg/F3	N/est	N/est	N/est	15.00 mg/F3
ETHYLENE GLYCOL	50.00 PPM	N/est	N/est	N/est	50.00 PPM
MINERAL SPIRITS	100.00 PPM	N/est	N/est	N/est	100.00 PPM

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

- -

SECTION IX - TRANSPORT INFORMATION:

DOT CLASSIFICATIONS FOR ONE GALLON AND UNDER CONTAINERS

DESCRIPTION: Non-hazardous
DOT CLASSIFICATIONS for OVER 1 GALLON size CONTAINERS

DESCRIPTION: Non-hazardous, Caulking product

- -

SECTION X - REGULATORY INFORMATION:
SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 2.0

The following ingredients are registered for TSCA 12B

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 2.0

Ethylene Glycol fits the EPA Hazard Category definition of Immediate (Acute) and Delayed (Chronic) Health Hazards under SARA Sect.311,312.

All chemical substances are TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
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MATERIAL SAFETY DATA SHEET

MSDS Name: POLYSEAMSEAL(R) ACRYLIC w/ Silicone PAINTABLE CAULK-CLEAR
MSDS Number: sD11535C
Version Number 2
Revision Date: OCT-13-2005
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**POLYSEAMSEAL(R) ACRYLIC w/ Silicone** PAINTABLE CAULK-CLEAR
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**HENKEL CONSUMER ADHESIVES** 7405 PRODUCTION DRIVE MENTOR OH 44060
Contact (24 hour):	Customer Affairs (800)321-0253
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour):	(703) 527-3887 (International) (800) 424-9300
in Canada CANUTEC	613-996-6666
Product Class	Acrylic Latex Caulk
Trade Name	**POLYSEAMSEAL**
Product Code	-- CLEAR

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA

No OSHA hazardous ingredients known at this time.

- -

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Milky-white Caulk
Appearance/Color:	dries CLEAR
Solubility (in water):	yes
pH Value, +/-.3:	8.
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	38.%
% Volatile, Volume	approx. 40.%
Specific Gravity:	1.055
VOC (less H2O or exempt)	<16 g/l, <1%

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class	N/A
Flash Range:	Not Applicable
Explosive Range (LEL/UEL):	Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.

SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme heat or fire.

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
Entry through Inhalation and Skin most likely
TARGET ORGANS...
None- No hazardous ingredients as per OSHA Regulations
CARCINOGENICITY...
NTP? N/A | IARC Monographs? N/A | OHSA? NO

EFFECTS OF OVEREXPOSURE

Inhalation:	May cause nose or throat irritation.
Skin/Eye Contact:	May cause irritation.
Ingestion:	Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation:	If affected by inhalation, remove to fresh air.
Eye Contact:	Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact:	Wash skin thoroughly with soap and water.
Ingestion:	Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

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SECTION VI - STABILITY AND REACTIVITY

Stability:	This product is stable
Hazardous Polymerization:	Hazardous polymerization will not occur

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INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

- -

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)
Caulking compound, Non Regulated

- -

SECTION X - REGULATORY INFORMATION:

California PROP.65 Chemicals: none known

Product is regulated by OSHA Hazard Communication standard (29CFR 1910.1200). However none of the five Hazard Catagories (SARA 311, 312) are appropriate for this product.
SARA Section 313 toxic chemicals: NONE
All ingredients TSCA listed.

DISCLAIMER:

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MATERIAL SAFETY DATA SHEET

MSDS Name: POLYSEAMSEAL(R) ACRYLIC w/ Silicone PAINTABLE CAULK-CLEAR
MSDS Number: sD11535C
Version Number 2
Revision Date: OCT-13-2005
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**POLYSEAMSEAL(R) ACRYLIC w/ Silicone** PAINTABLE CAULK-CLEAR
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**HENKEL CONSUMER ADHESIVES** 7405 PRODUCTION DRIVE MENTOR OH 44060
Contact (24 hour):	Customer Affairs (800)321-0253
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour):	(703) 527-3887 (International) (800) 424-9300
in Canada CANUTEC	613-996-6666
Product Class	Acrylic Latex Caulk
Trade Name	**POLYSEAMSEAL**
Product Code	-- CLEAR

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA

No OSHA hazardous ingredients known at this time.

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SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Milky-white Caulk
Appearance/Color:	dries CLEAR
Solubility (in water):	yes
pH Value, +/-.3:	8.
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	38.%
% Volatile, Volume	approx. 40.%
Specific Gravity:	1.055
VOC (less H2O or exempt)	<16 g/l, <1%

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class	N/A
Flash Range:	Not Applicable
Explosive Range (LEL/UEL):	Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.

SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme heat or fire.

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
Entry through Inhalation and Skin most likely
TARGET ORGANS...
None- No hazardous ingredients as per OSHA Regulations
CARCINOGENICITY...
NTP? N/A | IARC Monographs? N/A | OHSA? NO

EFFECTS OF OVEREXPOSURE

Inhalation:	May cause nose or throat irritation.
Skin/Eye Contact:	May cause irritation.
Ingestion:	Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation:	If affected by inhalation, remove to fresh air.
Eye Contact:	Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact:	Wash skin thoroughly with soap and water.
Ingestion:	Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

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SECTION VI - STABILITY AND REACTIVITY

Stability:	This product is stable
Hazardous Polymerization:	Hazardous polymerization will not occur

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INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

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SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)
Caulking compound, Non Regulated

- -

SECTION X - REGULATORY INFORMATION:

California PROP.65 Chemicals: none known

Product is regulated by OSHA Hazard Communication standard (29CFR 1910.1200). However none of the five Hazard Catagories (SARA 311, 312) are appropriate for this product.
SARA Section 313 toxic chemicals: NONE
All ingredients TSCA listed.

DISCLAIMER:

The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment,and the health & safety of the users of this material.

Material Safety Data Sheet

An RPM Company

24 Hour Emergency Phone Numbers:
Medical/Poison Control:
In U.S.: Call 1-800-222-1222
Outside U.S.: Call your local poison control center
Transportation/National Response Center:
1-800-535-5053
1-352-323-3500

NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
On peut demader cette fiche signalétique (MSDS) a la langue francaise-canadienne.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name:	DAP Alex Painters Acrylic Latex Caulk - All Colors	**Revision Date:**	04/01/2008
Product UPC Number:	070798736313, 070798736351	**Supercedes:**	10/29/2004
Product Use/Class:	Latex Caulk	**MSDS Number:**	00010011605
Manufacturer:	**DAP Canada** **475 Finchdene Square Unit 5** **Scarborough, Ontario M1X 1B7** **888-327-8477 (non-emergency)**		

Section 2 - Hazards Identification

Emergency Overview: A colored paste product with a very slight ammonia odor. WARNING! May cause eye, skin, nose, throat and respiratory tract irritation. May cause eye or skin irritation. Harmful if swallowed or absorbed through the skin. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation of high concentrations may cause headache, nausea, and dizziness. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation may cause mild irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death. Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. If ingested, may cause vomiting, diarrhea, and depressed respiration. Ingestion may result in obstruction when material hardens.

Effects Of Overexposure - Chronic Hazards: Repeated or prolonged exposure may cause respiratory system damage.

Prolonged and repeated skin contact may cause irritation and possibly dermatitis.

The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2).
Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system. Overexposure may cause kidney, cardiovascular, skin and liver damage.

Formaldehyde vapor is a known animal carcinogen according to OSHA and NTP and is considered possibly carcinogenic to humans by inhalation. The International Agency for Research on Cancer considers formaldehyde to be a human carcinogen.

A mixture of diisodecyl phthalate and diisononyl phthalate has been tested in a two-generation toxicity study in laboratory animals. No effects on reproductive parameters were seen. However, a small but statistically significant increase in early offspring mortality was seen at high oral doses. The significance of this to humans is uncertain.

The mixture of phthalate esters contained within this product has been shown to cause developmental effects at high doses in laboratory animals when administered orally by gavage in a developmental study and developmental and fertility effects when administered at high doses by feed in a two-generation reproduction study. The potential risk from occupational and consumer exposure is considered to be very low, based on limited relevance of the rodent findings to humans and the large safety margins between exposure and the effect levels.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
14808-60-7	Silica, crystalline	Suspected human carcinogen.	Not Listed.	Human carcinogen.	Known carcinogen.
13463-67-7	Titanium dioxide	Not Listed.	Not Listed.	Possible carcinogen.	Not Listed.
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Human carcinogen.	Anticipated carcinogen.

Section 3 - Composition / Information On Ingredients

Chemical Name	CASRN	Wt%
Limestone	1317-65-3	40-70
Branched and linear phthalates	Proprietary	1-5
Stoddard solvent	8052-41-3	0.5-1.5
Ethylene glycol	107-21-1	0.1-1.0
Silica, crystalline	14808-60-7	0.1-1.0
Titanium dioxide	13463-67-7	0.1-1.0

Ammonia	7664-41-7	0.1-1.0
Formaldehyde	50-00-0	<0.009

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical aid if symptoms persist. If skin irritation persists, call a physician. Remove and wash contaminated clothing. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. If ingested, drink 2 glasses of water. Immediately see a physician. Never give anything by mouth to an unconscious person.

Note to Physician: None.

COMMENTS: If over-exposure occurs, call your local poison control center.

Section 5 - Fire Fighting Measures

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Wash thoroughly after handling.

Storage: Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Close container after each use. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Limestone	1317-65-3	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	No
Branched and linear phthalates	Proprietary	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Stoddard solvent	8052-41-3	100 PPM	N.E.	N.E.	500 PPM	N.E.	N.E.	No
Ethylene glycol	107-21-1	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No

Silica, crystalline	14808-60-7	0.05 MGM3	N.E.	N.E.	10/(%SiO2 + 2) MGM3	N.E.	N.E.	No
Titanium dioxide	13463-67-7	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
Ammonia	7664-41-7	25 PPM	35 PPM	N.E.	50 PPM	N.E.	N.E.	No
Formaldehyde	50-00-0	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No

Exposure Notes:

14808-60-7 The 2002 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

The TLVs for crystalline silica represent the respirable fraction.

OSHA PEL TWA for Quartz is calculated using the following formula: 10 mg/m3/(% SiO2 + 2). Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics.

..... Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

50-00-0 Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.

Precautionary Measures: Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10-hour work shift.

Skin Protection: Rubber gloves. Natural rubber, butyl rubber and polyvinyl chloride gloves are not suitable protection against the phthalates contained within this product; neoprene is recommended.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Heavier Than Air
Odor:	Very Slight Ammonia	**Odor Threshold:**	Not Established
Color:	Colored	**Evaporation Rate:**	Slower Than n-Butyl Acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	1.6
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste	**Flammability:**	Non-Flammable
Flash Point, F:	Greater than 200 degrees Fahrenheit	**Method:**	(Seta Closed Cup)
Lower Explosive Limit, %:	Not Established	**Upper Explosive Limit, %:**	Not Established

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg
7664-41-7	Ammonia	----------	Rat:2000 ppm/4H
50-00-0	Formaldehyde	----------	Rat:203 mg/m3

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA and NTP identify formaldehyde as a potential carcinogen. IARC identifies formaldehyde as a human carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the significance of which to humans is unknown. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits.
Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.
In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): None

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	N.A.

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

Canadian WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class: Not Controlled.

Section 16 - Other Information

HMIS Ratings:

Health: 1	Flammability: 1	Reactivity: 0	Personal Protection: X

Volatile Organic Compounds (VOC), less water less exempts: g/L: 56.0 lb/gal: 0.5 wt:wt%: 2.5

Volatile Organic Compounds (VOC), less water less exempts, less LVP -VOCs: wt:wt%: 0.9

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable	ACGIH – American Conference of Governmental Industrial Hygienists
N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit	STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	MSDS – Material Safety Data Sheet
C – Degree Celsius	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

MATERIAL SAFETY DATA SHEET

MSDS Name: POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR
MSDS Number: sD11515C
Version Number 2
Revision Date: OCT-13-2005
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR**
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**HENKEL CONSUMER ADHESIVES** 7405 PRODUCTION DRIVE MENTOR OH 44060
Contact (24 hour):	Customer Affairs (800)321-0253
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour):	(703) 527-3887 (International) (800) 424-9300
in Canada CANUTEC	613-996-6666
Product Class	CAULK
Trade Name	**POLYSEAMSEAL**
Product Code	-- Clear

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA

No OSHA hazardous ingredients known at this time.

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SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Milky-white caulk
Appearance/Color:	CLEAR when dry
Solubility (in water):	Yes
pH Value, +/-.3:	7.5
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	Approx 36.%
% Volatile, Volume	40.%
Specific Gravity:	1.06
VOC (less H2O or exempt)	<15 g/l, (1%)

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

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SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class N/A
Flash Range: Not Applicable
Explosive Range (LEL/UEL): Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.

SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
Entry through Inhalation and Skin most likely
TARGET ORGANS...
None- No hazardous ingredients as per OSHA Regulations
CARCINOGENICITY...
NTP? N/A | IARC Monographs? N/A | OHSA? NO

EFFECTS OF OVEREXPOSURE

Inhalation: May cause nose or throat irritation.
Skin/Eye Contact: May cause irritation.
Ingestion: Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation: If affected by inhalation, remove to fresh air.
Eye Contact: Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact: Wash skin thoroughly with soap and water.
Ingestion: Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

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SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

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INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

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SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)
Caulking compound, Non Regulated

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SECTION X - REGULATORY INFORMATION:

Product is regulated by OSHA Hazard Communication standard (29CFR 1910.1200). However none of the five Hazard Catagories (SARA 311, 312) are appropriate for this product.
SARA Section 313 toxic chemicals: NONE
All ingredients TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment,and the health & safety of the users of this material.

MATERIAL SAFETY DATA SHEET

MSDS Name: H2U ACRYLIC URETHANE SEALANT
MSDS Number: 23311-001
Version Number 2
Revision Date: OCT-12-2005
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**H2U ACRYLIC URETHANE SEALANT**
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**HENKEL CONSUMER ADHESIVES** 7405 PRODUCTION DRIVE MENTOR OH 44060
Contact (24 hour):	Customer Affairs (800)321-0253
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour):	(703) 527-3887 (International) (800) 424-9300
in Canada CANUTEC	613-996-6666
Product Class	SEALANT
Trade Name	**PRO-SERIES**
Product Code	23311-001,-xxx

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
Titanium Dioxide **	13463-67-7	< 5.0	Y
ETHYLENE GLYCOL	107-21-1	< 2.0	Y

Ingredient Notes:
Remaining ingredients are not considered OSHA hazardous.
*Titanium Dioxide in white only!
**The main hazard for Titanium Dioxide is in inhalation.
Because of its incorporation into the polymer matrix,
exposure by inhalation is unlikely.

- -

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Non-sag caulk.
Appearance/Color:	White or colors
Solubility (in water):	yes
pH Value, +/-.3:	7.5
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate

Vapor Density:	Heavier than air
% Volatile, Weight	under 30.%
% Volatile, Volume	
Specific Gravity:	1.272
VOC (less H2O or exempt)	< 5 g/l (<.1%)

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class	N/A
Flash Range:	NONE
Explosive Range (LEL/UEL):	Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.

SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
ENTRY THROUGH...Inhalation and skin most likely

CARCINOGENICITY...
NTP? N/E | IARC Monographs? N/E | OHSA? NO

EFFECTS OF OVEREXPOSURE

Inhalation:	May cause nose or throat irritation.
Skin/Eye Contact:	May cause irritation.
Ingestion:	Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation:	If affected by inhalation, remove to fresh air.
Eye Contact:	Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact:	Wash skin thoroughly with soap and water.
Ingestion:	Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

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CHRONIC HAZARDS
Swallowing ETHYLENE GLYCOL may cause gastrointestinal irritation.

- -

SECTION VI - STABILITY AND REACTIVITY
Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
Titanium Dioxide **	10.00 mg/F3	N/est	N/est	N/est	10.00 mg/F3
ETHYLENE GLYCOL	N/est	100.00 mg/M3	N/est	N/est	50.00 PPM

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.

Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)
Caulking compound, Non Regulated

SECTION X - REGULATORY INFORMATION:
SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 2.0

The following ingredients are registered for TSCA 12B

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 2.0

Ethylene Glycol fits the EPA Hazard Category definition of Immediate (Acute) and Delayed (Chronic) Health Hazards under SARA Sect.311,312.
All chemical substances are TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the infor-

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mation or products for his particular purpose, for the protection of the environment,and the health & safety of the users of this material.

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name: CAULK BE GONE
Product UPC Number: 7079818025 7079818026 7079818045 7079871000
Product Use/Class: Latex Caulk
Manufacturer: **DAP Inc.**
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non-emergency matters)

Revision Date: 12/21/2005
Supercedes: 12/09/1999
MSDS Number: 00077182001

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Dimethyl glutarate	1119-40-0	10-30	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Dimethyl succinate	106-65-0	5-10	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Dimethyl adipate	627-93-0	3-7	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Ethylene glycol	107-21-1	0.5-1.5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Diethanolamine	111-42-2	0.1-1.0	2 MGM3	N.E.	N.E.	N.E.	N.E.	N.E.	Yes

Exposure Notes:

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A light green gel with a fruity odor. WARNING! Harmful if swallowed or absorbed through

the skin. May cause eye, skin, nose, throat and respiratory tract irritation. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: Causes eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

Effects Of Overexposure - Skin Contact: Harmful if absorbed through the skin. Prolonged or repeated contact with skin may cause irritation.

Effects Of Overexposure - Inhalation: Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). May cause blurred vision.

Effects Of Overexposure - Ingestion: Harmful or fatal if swallowed. Ingestion of dibasic esters can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Effects Of Overexposure - Chronic Hazards: NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Symptoms include: loss of memory, loss of intellectual ability and loss of coordination. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prolonged and repeated skin contact may cause irritation and possibly dermatitis. Repeated or prolonged exposure may cause respiratory system damage.

Overexposure may cause kidney, cardiovascular, skin and liver damage.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system. Dimethyladipate may increase the incidence of abnormal embryo development, based on a single suboptimally analyzed rat study. There are no human data.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Ingestion, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical aid if symptoms persist. Remove and wash contaminated clothing.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Note to Physician: None.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arises from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: Greater than 200
Method: (Seta Closed Cup)

Lower Explosive Limit, %: Not Established
Upper Explosive Limit, %: Not Established

Extinguishing Media: Alcohol, Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Use only with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions.

Storage: Close container after each use. Store containers away from excessive heat and freezing. Do not store at temperatures above 120 degrees F. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Rubber gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

Section 9 - Physical And Chemical Properties

Boiling Range:	212 - 417 F	**Vapor Density:**	Not Established
Odor:	Fruity	**Odor Threshold:**	Not Established
Appearance:	Light green	**Evaporation Rate:**	Slower Than n-Butyl Acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	1.037
Freeze Point:	Not Established	**pH:**	Not Established
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Gel		

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50	WT%
106-65-0	Dimethyl succinate	Oral Rat:>5 gm/kg	----------	5-10
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg	0.5-1.5
111-42-2	Diethanolamine	Oral Rat:620 uL/kg	----------	0.1-1.0

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP	WT%
111-42-2	Diethanolamine	-----	-----	Classification not possible from current data.	-----	0.1-1.0

Significant Data with Possible Relevance to Humans: None

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): None

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	N.A.

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

U.S. State Regulations

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number	WT%
Water	7732-18-5	40-70

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number	WT%
Water	7732-18-5	40-70

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

None.

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm:

None.

Section 16 - Other Information

HMIS Ratings:

Health: 2 Flammability: 1 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 999.8 LB/GAL: 8.3 WT%: 34.525

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable	ACGIH – American Conference of Governmental Industrial Hygienists
N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
STEL – Short Term Exposure Limit	CEIL – Ceiling Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	C – Degree Celsius
MSDS – Material Safety Data Sheet	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

MATERIAL SAFETY DATA SHEET

MSDS Name: POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR
MSDS Number: sD11515C
Version Number 2
Revision Date: OCT-13-2005
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR**
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**HENKEL CONSUMER ADHESIVES** 7405 PRODUCTION DRIVE MENTOR OH 44060
Contact (24 hour):	Customer Affairs (800)321-0253
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour):	(703) 527-3887 (International) (800) 424-9300
in Canada CANUTEC	613-996-6666
Product Class	CAULK
Trade Name	**POLYSEAMSEAL**
Product Code	-- Clear

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA

No OSHA hazardous ingredients known at this time.

- -

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Milky-white caulk
Appearance/Color:	CLEAR when dry
Solubility (in water):	Yes
pH Value, +/-.3:	7.5
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	Approx 36.%
% Volatile, Volume	40.%
Specific Gravity:	1.06
VOC (less H2O or exempt)	<15 g/l, (1%)

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class N/A
Flash Range: Not Applicable
Explosive Range (LEL/UEL): Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.

SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
Entry through Inhalation and Skin most likely
TARGET ORGANS...
None- No hazardous ingredients as per OSHA Regulations
CARCINOGENICITY...
NTP? N/A | IARC Monographs? N/A | OHSA? NO

EFFECTS OF OVEREXPOSURE

Inhalation: May cause nose or throat irritation.
Skin/Eye Contact: May cause irritation.
Ingestion: Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation: If affected by inhalation, remove to fresh air.
Eye Contact: Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact: Wash skin thoroughly with soap and water.
Ingestion: Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

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SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

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INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

- -

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)
Caulking compound, Non Regulated

- -

SECTION X - REGULATORY INFORMATION:

Product is regulated by OSHA Hazard Communication standard (29CFR 1910.1200). However none of the five Hazard Catagories (SARA 311, 312) are appropriate for this product.
SARA Section 313 toxic chemicals: NONE
All ingredients TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment,and the health & safety of the users of this material.

Darworth Company
3 MILL POND LANE, P.O. BOX 639 • SIMSBURY, CT 06070-0639 • 203-843-1200

MATERIAL SAFETY DATA SHEET

Product Name: POLYSEAMSEAL® Tub & Tile Adhesive Caulk (Pure White or Bone/Almond)

Issued Date: JANUARY 3, 1994

Manufacturer: Darworth Company
Division Of Ensign-Bickford Industries, Inc.
P.O. Box 639
3 Mill Pond Lane
Simsbury, CT 06070

HMIS	
Health	1
Flammability	1
Reactivity	0
Personal Protection	0

Contact For Further Information And Emergency : (203) 843-1200 or (800) 624-7767

SECTION ONE: PRODUCT IDENTIFICATION

Product/Trade Name: POLYSEAMSEAL® Tub & Tile Adhesive Caulk
Generic Name: Caulking
Chemical Family: Latex Caulk

SECTION TWO: HAZARDOUS COMPONENTS

COMPONENTS:

2,2,4-Trimethylpentanediol-1,3-Monoisobutyrate (Trade Name Texanol)

C.A.S. Number:	25265-77-4	Percentage:	3-4%
T.L.V.:	Not Established	P.E.L.:	Not Established

N-Butyl Acetate

C.A.S. Number:	123-86-4	Percentage:	4-5%
T.L.V.:	150 ppm 713 mg/m^3 8 Hour TWA 200 ppm 950 mg/m^3 15 Min STEL	P.E.L.:	150 ppm 710 mg/m^3

Propylene Glycol

C.A.S. Number:	57-55-6	Percentage:	2-3%
T.L.V.:	Not Established	P.E.L.:	Not Established

SECTION THREE: PHYSICAL DATA FOR CAULK

Boiling Point:	212°F
Vapor Pressure:	15 mm Hg @ 25°C
Solubility In Water:	Miscible In Water
Evaporation Rate:	Less Than Ether
Appearance And Odor:	White Or Colored Paste With A Sweet Banana Odor

Specific Gravity:	1.25
Percent Volatile:	45.5
Melting Point:	N/A
VOC:	148 g/l

This Product Does Not Contain Ingredients Listed By IARC, NTP, Or OSHA As Carcinogens Or Potential Carcinogens. See Section Nine.

SECTION FOUR: FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A **Flammable Limits:** LEL: N/A UEL: N/A

Hazardous Decomposition Products: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide. Under severe thermal degradation low molecular weight hydrocarbons may be formed.

Extinguishing Media: Water, Foam, Carbon Dioxide or Dry Chemical.

Special Firefighting Procedures: The use of self-contained breathing apparatus is recommended. Use water to cool exposed material.

Unusual Fire And Explosion Hazards: Keep work areas free of hot metal surfaces and other sources of ignition.

Auto Ignition: N/A

SECTION FIVE: HEALTH HAZARD DATA

Permissible Exposure Limit: Refer to Section Two

Threshold Limit Value: Refer to Section Two

Effects Of Acute Overexposure:

N-Butyl Acetate - Eye contact causes severe irritation. Vapors may be irritating and cause dizziness, headache, nausea, vomiting, and narcosis.

Effects Of Chronic Overexposure: Refer to Section Two

Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals:, liver abnormalities, kidney damage, lung damage, brain damage. blood abnormalities. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (inhalation).

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Immediately flush with large quantities of water for at least 15 minutes. Seek immediate medical attention.
Skin Contact: If this product comes in contact with the skin, wash with soap and large quantities of water and seek medical attention if irritation persists.
Inhalation: If victim exhibits respiratory distress, remove the victim from the contaminated area. If breathing stops, begin artificial respiration and seek immediate medical attention.
Ingestion: If product is consumed, induce vomiting if victim is conscious. Seek immediate medical advice/attention.
Primary Route Of Entry: (Refer To Section Two) Inhalation
Medical Conditions Aggravated By Exposure:

Skin- People with pre-existing skin disorders may be more susceptible to the effects of this product.

Inhalation- People with pre-existing respiratory disorders such as asthma, may be aggravated by exposure to this material.

SECTION SIX: REACTIVITY DATA

Hazardous Polymerization: Will not occur.

Stability: This product is stable in most conditions. Use this product only as recommended by manufacturer.

Incompatibility: Avoid contact with strong oxidizing agents.

Conditions To Avoid: N/A

SECTION SEVEN: SPILL OR LEAK PROCEDURES

Procedure: Keep sources of ignition and hot metal surfaces isolated from spill. Spilled material may be removed with inert absorbent and shovel. Dispose of product in accordance with applicable local, county, state and federal regulations.

SECTION EIGHT: PROTECTIVE EQUIPMENT TO BE USED

Ventilation

Respiratory Protection: (Refer To Section Two) The use of respiratory protection depends on vapor concentrations. If above the TLV or PEL.(see section two), use a National Institute of Occupational Safety and Health approved organic vapor respirator.
Local Exhaust: Required if general ventilation proves inadequate to maintain safe vapor concentrations. Indoors: do not use in a confined space without adequate mechanical ventilation.
Special: N/A
Mechanical: Use mechanical general room or local ventilation if necessary to maintain employee exposure below the PEL's and TLV's (noted in section two).
Outdoors: Mechanical ventilation or respiratory protection not normally required.

Protective Clothing

Protective Gloves: If protection is needed by sensitive skin individuals, rubber gloves are recommended.
Eye Protective: Safety glasses, chemical goggles, and/or face shields are recommended to safeguard against potential eye contact.
Other Equipment: The availability of eye washes and safety showers in work areas is recommended. Impermeable aprons are advised to prevent skin contact.

SECTION NINE: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep product containers cool, dry and away from sources of ignition. Keep from freezing. Use and store product with adequate ventilation. Keep product containers closed when not in use.
Other Precautions: Avoid inhalation of vapors. Avoid personal contact with the product. Product may be toxic to tropical fish.
Label Precautions: Caution: Keep out of reach of children. Do not take internally.

The information contained in this document is based upon available data and believed to be accurate. However, because the information has been obtained from various sources over which Ensign-Bickford Industries, Inc. (EBI) has no control, including the manufacturer and independent laboratories, it is provided without warranty or representation that it is complete, accurate or can be relied upon. Because EBI cannot anticipate or control the many situations in which this product may be used, EBI makes no warranty that the health and safety precautions set out in this document will be proper under all conditions. It is the sole responsibility of each user of this product to determine what is appropriate for your use and to comply with the requirements of all applicable laws. This information is provided solely for health and safety purposes. Any other use of this information is expressly prohibited.

MATERIAL SAFETY DATA SHEET

MSDS Name: POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR
MSDS Number: sD11515C
Version Number 2
Revision Date: OCT-13-2005
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR**
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**HENKEL CONSUMER ADHESIVES** 7405 PRODUCTION DRIVE MENTOR OH 44060
Contact (24 hour):	Customer Affairs (800)321-0253
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour):	(703) 527-3887 (International) (800) 424-9300
in Canada CANUTEC	613-996-6666
Product Class	CAULK
Trade Name	**POLYSEAMSEAL**
Product Code	-- Clear

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA

No OSHA hazardous ingredients known at this time.

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SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Milky-white caulk
Appearance/Color:	CLEAR when dry
Solubility (in water):	Yes
pH Value, +/-.3:	7.5
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	Approx 36.%
% Volatile, Volume	40.%
Specific Gravity:	1.06
VOC (less H2O or exempt)	<15 g/l, (1%)

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class N/A
Flash Range: Not Applicable
Explosive Range (LEL/UEL): Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.

SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
Entry through Inhalation and Skin most likely
TARGET ORGANS...
None- No hazardous ingredients as per OSHA Regulations
CARCINOGENICITY...
NTP? N/A | IARC Monographs? N/A | OHSA? NO

EFFECTS OF OVEREXPOSURE

Inhalation: May cause nose or throat irritation.
Skin/Eye Contact: May cause irritation.
Ingestion: Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation: If affected by inhalation, remove to fresh air.
Eye Contact: Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact: Wash skin thoroughly with soap and water.
Ingestion: Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

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SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

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INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

- -

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)
Caulking compound, Non Regulated

- -

SECTION X - REGULATORY INFORMATION:

Product is regulated by OSHA Hazard Communication standard (29CFR 1910.1200). However none of the five Hazard Catagories (SARA 311, 312) are appropriate for this product.
SARA Section 313 toxic chemicals: NONE
All ingredients TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment,and the health & safety of the users of this material.

MATERIAL SAFETY DATA SHEET

MSDS Name: POLYSEAMSEAL TUB & TILE Adhesive Caulk
MSDS Number: sD11515
Version Number 3
MSDS Date: SEP-26-2003
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: **POLYSEAMSEAL TUB & TILE Adhesive Caulk**
HMIS Hazard Rating: Health: 1 Fire: 0 Reactivity: 0 PPE: B

Company Identification: **OSI SEALANTS, INC.a Subsidiary**
of Sovereign Specialty Chems.
7405 PRODUCTION DRIVE
MENTOR OH 44060

Information phone/Fax: (440) 255-8900 / (440) 974-8358
Emergency Phone (24 hour) CHEMTREC
(800) 424-9300
Chemtrec (outside-USA) (703) 527-3887

Product Class CAULK
Trade Name **POLYSEAMSEAL**
Product Code ---

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
N-Butyl Acetate	0123-86-4	< 5.0	Y
Titanium Dioxide **	13463-67-7	< 5.0	Y
ETHYLENE GLYCOL	107-21-1	< 5.0	Y

Ingredient Notes:
Remaining ingredients are not considered OSHA hazardous.
**The main hazard for Titanium Dioxide is dust inhalation. Because of its incorporation into the caulk, exposure by inhalation is unlikely.

- -

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form: High viscosity caulk
Appearance/Color: White & colors
Odor: Banana odor

Solubility (in water):	yes
pH Value, +/-.3:	7.5
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	approx. 30.%
% Volatile, Volume	approx. 45.%
Specific Gravity:	1.245
VOC (less H2O or exempt)	72 Gr/L, 3.9%

NOTE:
Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class	N/A
Flash Range:	Not Available
Explosive Range (LEL/UEL):	Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.
SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme
heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
ENTRY THROUGH...Inhalation and skin most likely

CARCINOGENICITY...
NTP? N/E | IARC Monographs? N/E | OHSA? NO
EFFECTS OF OVEREXPOSURE
Inhalation: May cause nose or throat irritation.

Skin/Eye Contact: May cause irritation.
Ingestion: Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation: If affected by inhalation, remove to fresh air.
Eye Contact: Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact: Wash skin thoroughly with soap and water.
Ingestion: Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

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CHRONIC HAZARDS

Swallowing Ethylene Glycol may cause gastrointestinal irritation. Butyl Acetate: Vapor harmful. May affect brain and nervous system causing dizziness, headaches or nausea. May cause severe eye irritation upon eye contact.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver or kidney damage or may cause cardiac arrhythmia. INTENTIONAL misuse of this product by deliberately inhaling its vapors may be harmful or fatal.

- -

SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATABILITY:

None

CONDITIONS TO AVOID:

None

HAZARDOUS DECOMPOSITION PRODUCTS:

May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:

Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.

WASTE DISPOSAL METHOD:

Dispose of in accordance with Federal, State, and Local regulations.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
N-Butyl Acetate	150.00 PPM	N/est	200.00 PPM	200.00 PPM	150.00 PPM
Titanium Dioxide **	10.00 mg/F3	N/est	N/est	N/est	15.00 mg/F3
ETHYLENE GLYCOL	50.00 PPM	N/est	N/est	N/est	50.00 PPM

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)

Caulking compound, Non Regulated

SECTION X - REGULATORY INFORMATION:
SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 5.0

The following ingredients are registered for TSCA 12B

Ingredient Name	CAS Number	Percent
N-Butyl Acetate	0123-86-4	< 5.0
ETHYLENE GLYCOL	107-21-1	< 5.0

The components fit the EPA Hazard Category definition of Immediate (Acute) and Delayed (Chronic) Health Hazards under SARA Sections 311, 312.
All chemical substances are TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
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Darworth Company
3 MILL POND LANE, P.O. BOX 639 • SIMSBURY, CT 06070-0639 • 203-843-1200

MATERIAL SAFETY DATA SHEET

Product Name: POLYSEAMSEAL® Tub & Tile Adhesive Caulk (Pure White or Bone/Almond)

Issued Date: JANUARY 3, 1994

Manufacturer: Darworth Company
Division Of Ensign-Bickford Industries, Inc.
P.O. Box 639
3 Mill Pond Lane
Simsbury, CT 06070

HMIS	
Health	1
Flammability	1
Reactivity	0
Personal Protection	0

Contact For Further Information And Emergency : (203) 843-1200 or (800) 624-7767

SECTION ONE: PRODUCT IDENTIFICATION

Product/Trade Name: POLYSEAMSEAL® Tub & Tile Adhesive Caulk
Generic Name: Caulking
Chemical Family: Latex Caulk

SECTION TWO: HAZARDOUS COMPONENTS

COMPONENTS:

2,2,4-Trimethylpentanediol-1,3-Monoisobutyrate (Trade Name Texanol)

C.A.S. Number:	25265-77-4	Percentage:	3-4%
T.L.V.:	Not Established	P.E.L.:	Not Established

N-Butyl Acetate

C.A.S. Number:	123-86-4	Percentage:	4-5%
T.L.V.:	150 ppm 713 mg/m^3 8 Hour TWA 200 ppm 950 mg/m^3 15 Min STEL	P.E.L.:	150 ppm 710 mg/m^3

Propylene Glycol

C.A.S. Number:	57-55-6	Percentage:	2-3%
T.L.V.:	Not Established	P.E.L.:	Not Established

SECTION THREE: PHYSICAL DATA FOR CAULK

Boiling Point:	212°F
Vapor Pressure:	15 mm Hg @ 25°C
Solubility In Water:	Miscible In Water
Evaporation Rate:	Less Than Ether
Appearance And Odor:	White Or Colored Paste With A Sweet Banana Odor

Specific Gravity:	1.25
Percent Volatile:	45.5
Melting Point:	N/A
VOC:	148 g/l

This Product Does Not Contain Ingredients Listed By IARC, NTP, Or OSHA As Carcinogens Or Potential Carcinogens. See Section Nine.

SECTION FOUR: FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A **Flammable Limits:** LEL: N/A UEL: N/A

Hazardous Decomposition Products: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide. Under severe thermal degradation low molecular weight hydrocarbons may be formed.

Extinguishing Media: Water, Foam, Carbon Dioxide or Dry Chemical.

Special Firefighting Procedures: The use of self-contained breathing apparatus is recommended. Use water to cool exposed material.

Unusual Fire And Explosion Hazards: Keep work areas free of hot metal surfaces and other sources of ignition.

Auto Ignition: N/A

SECTION FIVE: HEALTH HAZARD DATA

Permissible Exposure Limit: Refer to Section Two

Threshold Limit Value: Refer to Section Two

Effects Of Acute Overexposure:

N-Butyl Acetate - Eye contact causes severe irritation. Vapors may be irritating and cause dizziness, headache, nausea, vomiting, and narcosis.

Effects Of Chronic Overexposure: Refer to Section Two

Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals:, liver abnormalities, kidney damage, lung damage, brain damage. blood abnormalities. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (inhalation).

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Immediately flush with large quantities of water for at least 15 minutes. Seek immediate medical attention.
Skin Contact: If this product comes in contact with the skin, wash with soap and large quantities of water and seek medical attention if irritation persists.
Inhalation: If victim exhibits respiratory distress, remove the victim from the contaminated area. If breathing stops, begin artificial respiration and seek immediate medical attention.
Ingestion: If product is consumed, induce vomiting if victim is conscious. Seek immediate medical advice/attention.
Primary Route Of Entry: (Refer To Section Two) Inhalation
Medical Conditions Aggravated By Exposure:

Skin- People with pre-existing skin disorders may be more susceptible to the effects of this product.

Inhalation- People with pre-existing respiratory disorders such as asthma, may be aggravated by exposure to this material.

SECTION SIX: REACTIVITY DATA

Hazardous Polymerization: Will not occur.

Stability: This product is stable in most conditions. Use this product only as recommended by manufacturer.

Incompatibility: Avoid contact with strong oxidizing agents.

Conditions To Avoid: N/A

SECTION SEVEN: SPILL OR LEAK PROCEDURES

Procedure: Keep sources of ignition and hot metal surfaces isolated from spill. Spilled material may be removed with inert absorbent and shovel. Dispose of product in accordance with applicable local, county, state and federal regulations.

SECTION EIGHT: PROTECTIVE EQUIPMENT TO BE USED

Ventilation

Respiratory Protection: (Refer To Section Two) The use of respiratory protection depends on vapor concentrations. If above the TLV or PEL.(see section two), use a National Institute of Occupational Safety and Health approved organic vapor respirator.
Local Exhaust: Required if general ventilation proves inadequate to maintain safe vapor concentrations. Indoors: do not use in a confined space without adequate mechanical ventilation.
Special: N/A
Mechanical: Use mechanical general room or local ventilation if necessary to maintain employee exposure below the PEL's and TLV's (noted in section two).
Outdoors: Mechanical ventilation or respiratory protection not normally required.

Protective Clothing

Protective Gloves: If protection is needed by sensitive skin individuals, rubber gloves are recommended.
Eye Protective: Safety glasses, chemical goggles, and/or face shields are recommended to safeguard against potential eye contact.
Other Equipment: The availability of eye washes and safety showers in work areas is recommended. Impermeable aprons are advised to prevent skin contact.

SECTION NINE: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep product containers cool, dry and away from sources of ignition. Keep from freezing. Use and store product with adequate ventilation. Keep product containers closed when not in use.
Other Precautions: Avoid inhalation of vapors. Avoid personal contact with the product. Product may be toxic to tropical fish.
Label Precautions: Caution: Keep out of reach of children. Do not take internally.

The information contained in this document is based upon available data and believed to be accurate. However, because the information has been obtained from various sources over which Ensign-Bickford Industries, Inc. (EBI) has no control, including the manufacturer and independent laboratories, it is provided without warranty or representation that it is complete, accurate or can be relied upon. Because EBI cannot anticipate or control the many situations in which this product may be used, EBI makes no warranty that the health and safety precautions set out in this document will be proper under all conditions. It is the sole responsibility of each user of this product to determine what is appropriate for your use and to comply with the requirements of all applicable laws. This information is provided solely for health and safety purposes. Any other use of this information is expressly prohibited.

MATERIAL SAFETY DATA SHEET

MSDS Name: POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR
MSDS Number: sD11515C
Version Number 2
Revision Date: OCT-13-2005
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR**
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**HENKEL CONSUMER ADHESIVES** 7405 PRODUCTION DRIVE MENTOR OH 44060
Contact (24 hour):	Customer Affairs (800)321-0253
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour):	(703) 527-3887 (International) (800) 424-9300
in Canada CANUTEC	613-996-6666
Product Class	CAULK
Trade Name	**POLYSEAMSEAL**
Product Code	-- Clear

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA

No OSHA hazardous ingredients known at this time.

- -

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Milky-white caulk
Appearance/Color:	CLEAR when dry
Solubility (in water):	Yes
pH Value, +/-.3:	7.5
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	Approx 36.%
% Volatile, Volume	40.%
Specific Gravity:	1.06
VOC (less H2O or exempt)	<15 g/l, (1%)

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class N/A
Flash Range: Not Applicable
Explosive Range (LEL/UEL): Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.

SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
Entry through Inhalation and Skin most likely
TARGET ORGANS...
None- No hazardous ingredients as per OSHA Regulations
CARCINOGENICITY...
NTP? N/A | IARC Monographs? N/A | OHSA? NO

EFFECTS OF OVEREXPOSURE

Inhalation: May cause nose or throat irritation.
Skin/Eye Contact: May cause irritation.
Ingestion: Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation: If affected by inhalation, remove to fresh air.
Eye Contact: Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact: Wash skin thoroughly with soap and water.
Ingestion: Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

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- -

SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

---

INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

- -

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)
Caulking compound, Non Regulated

- -

SECTION X - REGULATORY INFORMATION:

Product is regulated by OSHA Hazard Communication standard (29CFR 1910.1200). However none of the five Hazard Catagories (SARA 311, 312) are appropriate for this product.
SARA Section 313 toxic chemicals: NONE
All ingredients TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment,and the health & safety of the users of this material.

MATERIAL SAFETY DATA SHEET
KWIKSEAL

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SECTION I - IDENTIFICATION

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NFPA PROTECTION X
TRANSPORTATION EMERGENCY: NFPA HEALTH 0
CHEM-TEL 1-800-255-3924 NFPA FLAMMABILITY 2
INFORMATION: 860-347-2505 NFPA REACTIVITY 0

DU-LITE CORPORATION
171 RIVER ROAD PREPARED BY: WALTER J. SMITH
MIDDLETOWN, CT 06457 DATE: 4/01/04

PRODUCT NAME .....**KWIKSEAL**
DESCRIPTION .....Rust Preventative Oil
DOT DESCRIP.: COMBUSTIBLE LIQUID, N.O.S., (CONTAINS MINERAL SPIRITS)
NA-1993, PG-III
DOT LABEL: (No DOT label required) DOT PLACARD: Combustible or Flammable

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SECTION II - HAZARDOUS INGREDIENTS

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HAZARDOUS COMPONENT	CAS NUMBER	TLV(MG/M3)	PEL(MG/M3)	PERCENT
LOW AROMATIC HYDROCARBON SOLVENT	8032-32-4	100 PPM REC.		<77-87
NON-HAZARDOUS	N/A	N/A	N/A	<13-23

N/E = NOT ESTABLISHED N/A = NOT APPLICABLE N/D = NOT DETERMINED

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SECTION III - PHYSICAL DATA

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BOILING POINT(°F).....300°F SPECIFIC GRAVITY (H20=1)... 0.815
VAPOR PRESSURE (mm Hg)....1 @ 100°F MELTING POINT..... N/A
VAPOR DENSITY (Air=1)....5.1 EVAPORATION RATE..... <0.1
SOLUBILITY IN H20.....Negligible PH.....Neutral
APPEARANCE/ODOR....Clear, dark, low viscosity liquid - slight hydrocarbon odor.

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SECTION IV - REACTIVITY DATA

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CHEMICAL STABILITY: Stable
CONDITIONS TO AVOID: Open flame or excessive heat.
INCOMPATIBLE MATERIALS: Strong oxidizers.
DECOMPOSITION PRODUCTS: Fumes, smoke, carbon monoxide, carbon dioxide and organic compounds.
HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION V - FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT.....112°F PMCC FLAMMABLE LIMITS..LEL-0.9% VEL-7%
AUTOIGNITION TEMP.....490°F
IN CASE OF FIRE: Material is flammable petroleum liquid.
Use extinguishing carbon dioxide, foam or dry chemical media.
SPECIAL FIREFIGHTING PROCEDURES: Wear protective clothing with self-contained breathing apparatus.
UNUSUAL FIRE HAZARDS: Petroleum liquid. Product will float and spread on wate

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SECTION VI - HEALTH HAZARD DATA

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ROUTES OF ENTRY: Eye contact, skin contact, inhalation, ingestion.
HEALTH HAZARDS (ACUTE, CHRONIC):
Skin - repeated or prolonged contact may cause dermatitis or loss of skin oils.
Eyes - Contact may cause mild irritation.
Inhalation - Mildly irritating in high concentrations.
Ingestion - Low oral toxicity.
CARCINOGENICITY: None. NTP?: No. IARC?: No. OSHA REGULATED?: No.
FIRST AID:
INHALATION:
Move victim to fresh air.
If not breathing, use artificial respiration.
If breathing is difficult, give oxygen.
Seek medical attention.
EYES:
Flush well with water.
SKIN:
Wash well with soap and water.
Remove contaminated clothing and launder.
Seek medical attention if irritation occurs.
INGESTION:
Low oral toxicity. Do notinduce vomiting.

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SECTION VII - PRECAUTIONS/PROCEDURES

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IN CASE OF SPILL: Contain and collect free liquid.
Contain spills with absorbent such as sand or clay.
WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal regulations. Treat waste as an oil product.
PRECAUTIONS: Wear proper protective clothing when using this product.
Use with adequate ventilation.
Wash thoroughly after handling. Store away from excessive heat or open flame.
This is an oil product. Do not allow spills to enter waterways or drainage sys
If spill enters waterway and causes sheen, report to
National Response Center at 800-424-8602.
OTHER PRECAUTIONS: Emptied containers of this product may contain hazardous va residue. Clean thoroughly before reusing or discarding.
Do not use a welding torch to cut container.
Do not use for water or food storage.

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SECTION VIII - SPECIAL PROTECTION

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RESPIRATORY PROTECTION:
Use NIOSH approved respirator if vapors are excessive.
VENTILATION: Maintain below TLV. MECHANICAL EXHAUST...X
PROTECTIVE GLOVES: Rubber. LOCAL EXHAUST.....X
EYE PROTECTION: Safety goggles, face shield.
OTHER PROTECTIVE EQUIPMENT... Apron, boots, full cover work clothes.
WORK/HYGIENIC PRACTICES..... Wash thoroughly after handling, launder clothes.

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SECTION IX - SARA TITLE III INFORMATION

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HAZARDOUS COMPONENT	CERCLA RQ LBS.	SECT 302 TPQ LBS.	SECT 313 TOXIC	SECT 311/312 HAZARDS
Low Aromatic Hydrocarbon Solvent	N/A	N/A	N/A	A,C

A=IMMEDIATE (ACUTE HEALTH HAZARD) B=DELAYED (CHRONIC) HEALTH HAZARD
C=FIRE HAZARD D= SUDDEN RELEASE OF PRESSURE HAZARD E=REACTIVE HAZARD

Material Safety Data Sheet

An RPM Company

24 Hour Emergency Phone Numbers:
Medical/Poison Control:
In U.S.: Call 1-800-222-1222
Outside U.S.: Call your local poison control center
Transportation/National Response Center:
1-800-535-5053
1-352-323-3500

NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
On peut demader cette fiche signalétique (MSDS) a la langue francaise-canadienne.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name:	Kwik Seal Tub & Tile Adhesive Caulk - All Colors	**Revision Date:**	05/21/2008
Product UPC Number:	070798710504, 070798710207, 070798710238	**Supercedes:**	04/27/2005
Product Use/Class:	Latex Caulk	**MSDS Number:**	00010009605
Manufacturer:	**DAP Canada** **475 Finchdene Square Unit 5** **Scarborough, Ontario M1X 1B7** **888-327-8477 (non-emergency)**		

Section 2 - Hazards Identification

Emergency Overview: A colored paste product with a very slight ammonia odor. WARNING! May cause eye, skin, nose, throat and respiratory tract irritation. May cause eye or skin irritation. Harmful if swallowed or absorbed through the skin. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation of high concentrations may cause headache, nausea, and dizziness. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation may cause mild irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death. Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. If ingested, may cause vomiting, diarrhea, and depressed respiration. Ingestion may result in obstruction when material hardens.

Effects Of Overexposure - Chronic Hazards: Repeated or prolonged exposure may cause skin, respiratory, kidney and

liver damage. Prolonged and repeated skin contact may cause irritation and possibly dermatitis.

The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2).
Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system.

Formaldehyde vapor is a known animal carcinogen according to OSHA and NTP and is considered possibly carcinogenic to humans by inhalation. The International Agency for Research on Cancer considers formaldehyde to be a human carcinogen.

A mixture of diisodecyl phthalate and diisononyl phthalate has been tested in a two-generation toxicity study in laboratory animals. No effects on reproductive parameters were seen. However, a small but statistically significant increase in early offspring mortality was seen at high oral doses. The significance of this to humans is uncertain.

The mixture of phthalate esters contained within this product has been shown to cause developmental effects at high doses in laboratory animals when administered orally by gavage in a developmental study and developmental and fertility effects when administered at high doses by feed in a two-generation reproduction study. The potential risk from occupational and consumer exposure is considered to be very low, based on limited relevance of the rodent findings to humans and the large safety margins between exposure and the effect levels.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	Not Listed.	Not Listed.	Possible carcinogen.	Not Listed.
14808-60-7	Silica, crystalline	Suspected human carcinogen.	Not Listed.	Human carcinogen.	Known carcinogen.
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Human carcinogen.	Anticipated carcinogen.

Section 3 - Composition / Information On Ingredients

Chemical Name	CASRN	Wt%
Limestone	1317-65-3	30-60
Branched and linear phthalates	Proprietary	1-5
Titanium dioxide	13463-67-7	0.1-1.0
n-Butyl acetate	123-86-4	0.1-1.0
Silica, crystalline	14808-60-7	0.1-1.0
Ethylene glycol	107-21-1	0.1-1.0
Formaldehyde	50-00-0	<0.02

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical aid if symptoms persist. If skin irritation persists, call a physician. Remove and wash contaminated clothing. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. If ingested, drink 2 glasses of water. Immediately see a physician. Never give anything by mouth to an unconscious person.

Note to Physician: None.

COMMENTS: If over-exposure occurs, call your local poison control center.

Section 5 - Fire Fighting Measures

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Wash thoroughly after handling.

Storage: Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Close container after each use. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Limestone	1317-65-3	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	No
Branched and linear phthalates	Proprietary	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Titanium dioxide	13463-67-7	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
n-Butyl acetate	123-86-4	150 PPM	200 PPM	N.E.	150 PPM	N.E.	N.E.	No
Silica, crystalline	14808-60-7	0.025 MGM.	N.E.	N.E.	10/(%SiO2 + 2) MGM3	N.E.	N.E.	No
Ethylene glycol	107-21-1	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Formaldehyde	50-00-0	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No

Exposure Notes:

14808-60-7 The 2002 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

The TLVs for crystalline silica represent the respirable fraction.

OSHA PEL TWA for Quartz is calculated using the following formula: 10 mg/m3/(% SiO2 + 2). Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics.

..... Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

50-00-0 Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.

Precautionary Measures: Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10-hour work shift.

Skin Protection: Rubber gloves. Natural rubber, butyl rubber and polyvinyl chloride gloves are not suitable protection against the phthalates contained within this product; neoprene is recommended.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

Section 9 - Physical And Chemical Properties

Boiling Range:	210 - 220 F	**Vapor Density:**	Heavier Than Air
Odor:	Very Slight Ammonia	**Odor Threshold:**	Not Established

Color:	Colored	**Evaporation Rate:**	Slower Than n-Butyl Acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	1.6
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste	**Flammability:**	Non-Flammable
Flash Point, F:	> 200 F	**Method:**	(Seta Closed Cup)
Lower Explosive Limit, %:	Not Established	**Upper Explosive Limit, %:**	Not Established

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
123-86-4	n-Butyl acetate	Rat:10768 MG/KG	Rat:2000 P
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg
50-00-0	Formaldehyde	----------	Rat:203 mg/m3

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA and NTP identify formaldehyde as a potential carcinogen. IARC identifies formaldehyde as a human carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the significance of which to humans is unknown. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits.
Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.
In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
Mercury & compounds	7439-97-6

Canadian WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class: Not Controlled.

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

Volatile Organic Compounds (VOC), less water less exempts: g/L: 25.4 lb/gal: 0.2 wt:wt%: 1.1

Volatile Organic Compounds (VOC), less water less exempts, less LVP -VOCs: wt:wt%: 0.6

REASON FOR REVISION: Periodic Update

Legend: N.A. – Not Applicable ACGIH – American Conference of Governmental Industrial Hygienists

N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit	STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	MSDS – Material Safety Data Sheet
C – Degree Celsius	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

Material Safety Data Sheet

An RPM Company

24 Hour Emergency Phone Numbers:
Medical/Poison Control:
In U.S.: Call 1-800-222-1222
Outside U.S.: Call your local poison control center
Transportation/National Response Center:
1-800-535-5053
1-352-323-3500

NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

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On peut demader cette fiche signalétique (MSDS) a la langue francaise-canadienne.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name:	Kwik Seal Tub & Tile Adhesive Caulk - All Colors	**Revision Date:**	05/21/2008
Product UPC Number:	070798710504, 070798710207, 070798710238	**Supercedes:**	04/27/2005
Product Use/Class:	Latex Caulk	**MSDS Number:**	00010009605
Manufacturer:	**DAP Canada** **475 Finchdene Square Unit 5** **Scarborough, Ontario M1X 1B7** **888-327-8477 (non-emergency)**		

Section 2 - Hazards Identification

Emergency Overview: A colored paste product with a very slight ammonia odor. WARNING! May cause eye, skin, nose, throat and respiratory tract irritation. May cause eye or skin irritation. Harmful if swallowed or absorbed through the skin. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation of high concentrations may cause headache, nausea, and dizziness. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation may cause mild irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death. Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. If ingested, may cause vomiting, diarrhea, and depressed respiration. Ingestion may result in obstruction when material hardens.

Effects Of Overexposure - Chronic Hazards: Repeated or prolonged exposure may cause skin, respiratory, kidney and

liver damage. Prolonged and repeated skin contact may cause irritation and possibly dermatitis.

The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2).
Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system.

Formaldehyde vapor is a known animal carcinogen according to OSHA and NTP and is considered possibly carcinogenic to humans by inhalation. The International Agency for Research on Cancer considers formaldehyde to be a human carcinogen.

A mixture of diisodecyl phthalate and diisononyl phthalate has been tested in a two-generation toxicity study in laboratory animals. No effects on reproductive parameters were seen. However, a small but statistically significant increase in early offspring mortality was seen at high oral doses. The significance of this to humans is uncertain.

The mixture of phthalate esters contained within this product has been shown to cause developmental effects at high doses in laboratory animals when administered orally by gavage in a developmental study and developmental and fertility effects when administered at high doses by feed in a two-generation reproduction study. The potential risk from occupational and consumer exposure is considered to be very low, based on limited relevance of the rodent findings to humans and the large safety margins between exposure and the effect levels.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	Not Listed.	Not Listed.	Possible carcinogen.	Not Listed.
14808-60-7	Silica, crystalline	Suspected human carcinogen.	Not Listed.	Human carcinogen.	Known carcinogen.
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Human carcinogen.	Anticipated carcinogen.

Section 3 - Composition / Information On Ingredients

Chemical Name	CASRN	Wt%
Limestone	1317-65-3	30-60
Branched and linear phthalates	Proprietary	1-5
Titanium dioxide	13463-67-7	0.1-1.0
n-Butyl acetate	123-86-4	0.1-1.0
Silica, crystalline	14808-60-7	0.1-1.0
Ethylene glycol	107-21-1	0.1-1.0
Formaldehyde	50-00-0	<0.02

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical aid if symptoms persist. If skin irritation persists, call a physician. Remove and wash contaminated clothing. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. If ingested, drink 2 glasses of water. Immediately see a physician. Never give anything by mouth to an unconscious person.

Note to Physician: None.

COMMENTS: If over-exposure occurs, call your local poison control center.

Section 5 - Fire Fighting Measures

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Wash thoroughly after handling.

Storage: Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Close container after each use. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Limestone	1317-65-3	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	No
Branched and linear phthalates	Proprietary	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Titanium dioxide	13463-67-7	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
n-Butyl acetate	123-86-4	150 PPM	200 PPM	N.E.	150 PPM	N.E.	N.E.	No
Silica, crystalline	14808-60-7	0.025 MGM.	N.E.	N.E.	10/(%SiO2 + 2) MGM3	N.E.	N.E.	No
Ethylene glycol	107-21-1	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Formaldehyde	50-00-0	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No

Exposure Notes:

14808-60-7 The 2002 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

The TLVs for crystalline silica represent the respirable fraction.

OSHA PEL TWA for Quartz is calculated using the following formula: 10 mg/m3/(% SiO2 + 2). Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics.

..... Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

50-00-0 Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.

Precautionary Measures: Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10-hour work shift.

Skin Protection: Rubber gloves. Natural rubber, butyl rubber and polyvinyl chloride gloves are not suitable protection against the phthalates contained within this product; neoprene is recommended.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

Section 9 - Physical And Chemical Properties

Boiling Range:	210 - 220 F	**Vapor Density:**	Heavier Than Air
Odor:	Very Slight Ammonia	**Odor Threshold:**	Not Established

Color:	Colored	**Evaporation Rate:**	Slower Than n-Butyl Acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	1.6
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste	**Flammability:**	Non-Flammable
Flash Point, F:	> 200 F	**Method:**	(Seta Closed Cup)
Lower Explosive Limit, %:	Not Established	**Upper Explosive Limit, %:**	Not Established

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
123-86-4	n-Butyl acetate	Rat:10768 MG/KG	Rat:2000 P
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg
50-00-0	Formaldehyde	----------	Rat:203 mg/m3

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA and NTP identify formaldehyde as a potential carcinogen. IARC identifies formaldehyde as a human carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the significance of which to humans is unknown. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits.
Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.
In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
Mercury & compounds	7439-97-6

Canadian WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class: Not Controlled.

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

Volatile Organic Compounds (VOC), less water less exempts: g/L: 25.4 lb/gal: 0.2 wt:wt%: 1.1

Volatile Organic Compounds (VOC), less water less exempts, less LVP -VOCs: wt:wt%: 0.6

REASON FOR REVISION: Periodic Update

Legend: N.A. – Not Applicable ACGIH – American Conference of Governmental Industrial Hygienists

N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit	STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	MSDS – Material Safety Data Sheet
C – Degree Celsius	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

Material Safety Data Sheet

An RPM Company

24 Hour Emergency Phone Numbers:
Medical/Poison Control:
In U.S.: Call 1-800-222-1222
Outside U.S.: Call your local poison control center
Transportation/National Response Center:
1-800-535-5053
1-352-323-3500

NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
On peut demader cette fiche signalétique (MSDS) a la langue francaise-canadienne.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name:	Alex Plus Acrylic Latex Caulk Plus Silicone - All Colors	**Revision Date:**	05/21/2008
Product UPC Number:	070798742253, 070798742338, 070798742437, 070798742376, 070798742390, 070798742451, 07098742475	**Supercedes:**	04/21/2005
Product Use/Class:	Latex Caulk	**MSDS Number:**	00010002605
Manufacturer:	**DAP Canada** **475 Finchdene Square Unit 5** **Scarborough, Ontario M1X 1B7** **888-327-8477 (non-emergency)**		

Section 2 - Hazards Identification

Emergency Overview: A colored paste product with a very slight ammonia odor. WARNING! May cause eye, skin, nose, throat and respiratory tract irritation. May cause eye or skin irritation. Harmful if swallowed or absorbed through the skin. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation of high concentrations may cause headache, nausea, and dizziness. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation may cause mild irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death. Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. If ingested, may cause vomiting, diarrhea, and depressed respiration. Ingestion may result in obstruction when material hardens.

Effects Of Overexposure - Chronic Hazards: Repeated or prolonged exposure may cause skin, respiratory, kidney and liver damage. Prolonged and repeated skin contact may cause irritation and possibly dermatitis.

The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2).
Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system.
A mixture of diisodecyl phthalate and diisononyl phthalate has been tested in a two-generation toxicity study in laboratory animals. No effects on reproductive parameters were seen. However, a small but statistically significant increase in early offspring mortality was seen at high oral doses. The significance of this to humans is uncertain.

The mixture of phthalate esters contained within this product has been shown to cause developmental effects at high doses in laboratory animals when administered orally by gavage in a developmental study and developmental and fertility effects when administered at high doses by feed in a two-generation reproduction study. The potential risk from occupational and consumer exposure is considered to be very low, based on limited relevance of the rodent findings to humans and the large safety margins between exposure and the effect levels.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	Not Listed.	Not Listed.	Possible carcinogen.	Not Listed.
14808-60-7	Silica, crystalline	Suspected human carcinogen.	Not Listed.	Human carcinogen.	Known carcinogen.
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Human carcinogen.	Anticipated carcinogen.

Section 3 - Composition / Information On Ingredients

Chemical Name	CASRN	Wt%
Limestone	1317-65-3	40-70
Branched and linear phthalates	Proprietary	1-5
Titanium dioxide	13463-67-7	0.1-1.0
Silica, crystalline	14808-60-7	0.1-1.0
Ethylene glycol	107-21-1	0.1-1.0
Ammonia	7664-41-7	<0.08
Formaldehyde	50-00-0	<0.0010

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical aid if symptoms persist. If skin irritation persists, call a physician. Remove and wash contaminated clothing. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately. First Aid: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. If ingested, drink 2 glasses of water. Immediately see a physician. Never give anything by mouth to an unconscious person.

Note to Physician: None.

COMMENTS: If over-exposure occurs, call your local poison control center.

Section 5 - Fire Fighting Measures

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Wash thoroughly after handling.

Storage: Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Close container after each use. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Limestone	1317-65-3	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	No
Branched and linear phthalates	Proprietary	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Titanium dioxide	13463-67-7	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
Silica, crystalline	14808-60-7	0.025 MGM.	N.E.	N.E.	10/(%SiO2 + 2) MGM3	N.E.	N.E.	No
Ethylene glycol	107-21-1	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Ammonia	7664-41-7	25 PPM	35 PPM	N.E.	50 PPM	N.E.	N.E.	No
Formaldehyde	50-00-0	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No

Exposure Notes:

14808-60-7 The 2002 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median

Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

The TLVs for crystalline silica represent the respirable fraction.

OSHA PEL TWA for Quartz is calculated using the following formula: 10 mg/m3/(% SiO2 + 2). Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics.

..... Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

Precautionary Measures: Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10-hour work shift.

Skin Protection: Rubber gloves. Natural rubber, butyl rubber and polyvinyl chloride gloves are not suitable protection against the phthalates contained within this product; neoprene is recommended.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

Section 9 - Physical And Chemical Properties

Boiling Range:	210 - 220 F	**Vapor Density:**	Heavier Than Air
Odor:	Very Slight Ammonia	**Odor Threshold:**	Not Established
Color:	Colored	**Evaporation Rate:**	Slower Than n-Butyl Acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	1.5
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste	**Flammability:**	Non-Flammable
Flash Point, F:	Greater than 200 degrees Fahrenheit	**Method:**	(Seta Closed Cup)
Lower Explosive Limit, %:	Not Established	**Upper Explosive Limit, %:**	Not Established

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg
7664-41-7	Ammonia	----------	Rat:2000 ppm/4H
50-00-0	Formaldehyde	----------	Rat:203 mg/m3

Significant Data with Possible Relevance to Humans: None.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): None

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	N.A.

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of

the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
Mercury & compounds	7439-97-6

Canadian WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class: Not Controlled.

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: B

Volatile Organic Compounds (VOC), less water less exempts: g/L: 30.5 lb/gal: 0.3 wt:wt%: 1.5

Volatile Organic Compounds (VOC), less water less exempts, less LVP -VOCs: wt:wt%: 0.6

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable
N.E. – Not Established
N.D. – Not Determined
VOC – Volatile Organic Compound
PEL – Permissible Exposure Limit
TLV – Threshold Limit Value
CEIL – Ceiling Exposure Limit
LD50 – Lethal Dose 50
F – Degree Fahrenheit

ACGIH – American Conference of Governmental Industrial Hygienists
SARA – Superfund Amendments and Reauthorization Act of 1986
NJRTK – New Jersey Right-to-Know Law
OSHA – Occupational Safety and Health Administration
HMIS – Hazardous Materials Identification System
NTP – National Toxicology Program
STEL – Short Term Exposure Limit
LC50 – Lethal Concentration 50
MSDS – Material Safety Data Sheet

C – Degree Celsius CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

MATERIAL SAFETY DATA SHEET

MSDS Name: QUAD ADVANCED FORMULA SEALANT
MSDS Number: 24011-001-4
Version Number 2
MSDS Date: SEP-09-2002
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	QUAD ADVANCED FORMULA SEALANT
HMIS Hazard Rating:	Health: 1 Fire: 3 Reactivity: 0 PPE: B
Company Identification:	OSI SEALANTS, INC.a Subsidiary of Sovereign Specialty Chems. 7405 PRODUCTION DRIVE MENTOR OH 44060
Information phone/Fax:	(440) 255-8900 (440) 974-8358
Emergency Phone (24 hour)	CHEMTREC (800) 424-9300
Chemtrec (outside-USA)	(703) 527-3887
Product Class	SEALANT
Trade Name	PRO-SERIES
Product Code	24011-001,-xxx

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
STODDARD SOLVENT	8052-41-3	10 - 15	Y
XYLENE	1330-20-7	10 - 15	Y
Titanium Dioxide **	13463-67-7	5 - 10	
ETHYL BENZENE	100-41-4	< 5.0	Y

Ingredient Notes:
Remaining ingredients are not considered OSHA hazardous.
*TITANIUM DIOXIDE IN WHITE ONLY!
**The main hazard for Titanium Dioxide is in inhalation. Because of its incorporation into the polymer matrix, exposure by inhalation is unlikely.

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SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form: High viscosity caulk (various colors)

Solubility (in water):	insol.
pH Value, +/-.3:	Not Applicable
Boiling Range:	280.øF - 380.øF (137.78øC - 193.33øC)
Vapor Pressure (mmHg):	23.@ 68.øF (20.øC)
Evaporation Rate:	0.9 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	approx. 25.%
% Volatile, Volume	40.%
Specific Gravity:	1.18
VOC (less H2O or exempt)	340 gr/l.(25%)

NOTE:
*BOIL RANGE, EVAP RATE, VAPOR DENSITY AND PRESSURE FOR SOLVENT ONLY!

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class	IC
Flash Range:	80.øF (26.67øC) Tag Closed Cup
Explosive Range (LEL/UEL):	1.% 7.%

EXTINGUISHING MEDIA:
Carbon Dioxide---Dry Chemical---Foam
Use water fog to cool material in vicinity of fire.
SPECIAL FIRE-FIGHTING PROCEDURES:
Use self-contained breathing apparatus with full facepiece
operated in pressure demand with full protective equipment.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may rupture when exposed to extreme heat.
Solvent vapors are heavier than air and travel along the ground.
Vapors given off are flammable and may be ignited in air explosively.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
ENTRY THROUGH... Inhalation and skin most likely

CARCINOGENICITY...
NTP? N/E | IARC Monographs? N/E | OHSA? NO
This product contains Ethylbenzene. The International Agency for

---

Research on Cancer has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

EFFECTS OF OVEREXPOSURE

Eyes: Can cause irritation, redness, tearing and blurred vision.

Skin: Prolonged or repeated contact can cause moderate irritation, drying of the skin, and dermatitis.

Inhalation: Excessive inhalation of vapors can cause respiratory irritation, headache, drowsiness and fatigue. High concentrations of vapors are anesthetic and may cause central nervous system effects such as dizziness.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

FIRST AID MEASURES

Eyes: Flush eyes gently with water for at least 15 minutes lifting eyelids occasionally; get prompt medical attention

Skin: Wash thoroughly with soap and water; apply a mild skin cream. Remove contaminated clothing.

Inhalation: Move affected person to fresh air; if breathing is difficult, administer oxygen; if breathing has stopped, give artificial respiration. Get medical attention.

Ingestion: DO NOT INDUCE VOMITING! Get immediate medical attention.

CHRONIC HAZARDS

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver or kidney damage or may cause cardiac arrhythmia. INTENTIONAL misuse of this product by deliberately inhaling its vapors may be harmful or fatal.

Overexposure to Xylene may cause injury to Liver, Kidney and blood.

- -

SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable

Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATABILITY:

Keep away from strong oxidizing agents.

CONDITIONS TO AVOID:

Keep away from heat, spark, open flames and any ignition source.

HAZARDOUS DECOMPOSITION PRODUCTS:

Will produce fumes and smoke containing carbon monoxide and dioxide under fire conditions.

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SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Eliminate all ignition sources. Ventilate confined areas.
(Open windows and doors). Wear appropriate protective clothing.
Cover with absorbent. Scoop into sealable safety container.
WASTE DISPOSAL METHOD:
Dispose of following local, state, and federal regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
STODDARD SOLVENT	100.00 PPM	N/est	N/est	N/est	100.00 PPM
XYLENE	100.00 PPM	N/est	150.00 PPM	150.00 PPM	100.00 PPM
Titanium Dioxide **	10.00 mg/F3	N/est	N/est	N/est	15.00 N/est
ETHYL BENZENE	100.00 PPM	N/est	N/est	150.00 PPM	100.00 PPM

RESPIRATORY PROTECTION:
If TLV of the product is exceeded, a NIOSH/MSHA jointly approved
air supply respirator is advised in the absence of proper
ventilation. OSHA regulations also permit the use of other
types of NIOSH/MSHA respirators under specified conditions.
(See your safety equipment supplier for more information)
VENTILATION:
Provide sufficient mechanical (general and/or local exhaust)
ventilation to maintain exposure below TLV.
Ventilate during application and curing of this product.
PROTECTIVE CLOTHING:
Rubber gloves should be worn where skin contact is likely.
Wear impervious clothing and shoes.
EYE PROTECTION:
Chemical goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:

Keep away from heat, spark and flame.
Keep out of reach of children.
Keep container closed while not in use.
Do not cut or burn recepticals that have contained a
solvent based product. Do not reuse this container.
Use only in a well ventilated area.

N/A=NOT APPLICABLE N/AV=NOT AVAILABLE N/E, N/est=NOT ESTABLISHED

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SECTION IX - TRANSPORT INFORMATION:

DOT CLASSIFICATIONS FOR ONE GALLON AND UNDER CONTAINERS

DESCRIPTION: ORM-D, Consumer commodity
CLASS/ UN NO.: none
DOT LABEL: ORM-D (Caulking)
IMDG class: 3.3
IMDG BOL: Flammable Liquid nos.,3,UN1993,PG III,LTD QTY

DOT CLASSIFICATIONS for OVER 1 GALLON size CONTAINERS

DESCRIPTION: Flammable Liquid n.o.s.
CLASS: Class 3, Pack group III
DOT LABEL: Flammable Liquid, UN 1993
IMDG CLASS: 3.3
IMDG BOL: Flammable liquid n.o.s.,3,UN1993,PG III

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SECTION X - REGULATORY INFORMATION:
SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
XYLENE	1330-20-7	10 - 15
ETHYL BENZENE	100-41-4	< 5.0

This material fits the EPA Hazard Category definition of Immediate (Acute) and Delayed (Chronic) Health Hazards under SARA Sections 311, 312.

Chemical substances are TSCA listed.

California PROP.65 Chemicals: none known

DISCLAIMER:
The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and the user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment, and the health and safety of the users of this material.

Darworth Company
3 MILL POND LANE, P.O. BOX 639 • SIMSBURY, CT 06070-0639 • 203-843-1200

MATERIAL SAFETY DATA SHEET

Product Name: POLYSEAMSEAL® Tub & Tile Adhesive Caulk (Pure White or Bone/Almond)

Issued Date: JANUARY 3, 1994

Manufacturer: Darworth Company
Division Of Ensign-Bickford Industries, Inc.
P.O. Box 639
3 Mill Pond Lane
Simsbury, CT 06070

HMIS	
Health	1
Flammability	1
Reactivity	0
Personal Protection	0

Contact For Further Information And Emergency : (203) 843-1200 or (800) 624-7767

SECTION ONE: PRODUCT IDENTIFICATION

Product/Trade Name: POLYSEAMSEAL® Tub & Tile Adhesive Caulk
Generic Name: Caulking
Chemical Family: Latex Caulk

SECTION TWO: HAZARDOUS COMPONENTS

COMPONENTS:

2,2,4-Trimethylpentanediol-1,3-Monoisobutyrate (Trade Name Texanol)

C.A.S. Number:	25265-77-4	Percentage:	3-4%
T.L.V.:	Not Established	P.E.L.:	Not Established

N-Butyl Acetate

C.A.S. Number:	123-86-4	Percentage:	4-5%
T.L.V.:	150 ppm 713 mg/m^3 8 Hour TWA 200 ppm 950 mg/m^3 15 Min STEL	P.E.L.:	150 ppm 710 mg/m^3

Propylene Glycol

C.A.S. Number:	57-55-6	Percentage:	2-3%
T.L.V.:	Not Established	P.E.L.:	Not Established

SECTION THREE: PHYSICAL DATA FOR CAULK

Boiling Point:	212°F
Vapor Pressure:	15 mm Hg @ 25°C
Solubility In Water:	Miscible In Water
Evaporation Rate:	Less Than Ether
Appearance And Odor:	White Or Colored Paste With A Sweet Banana Odor

Specific Gravity:	1.25
Percent Volatile:	45.5
Melting Point:	N/A
VOC:	148 g/l

This Product Does Not Contain Ingredients Listed By IARC, NTP, Or OSHA As Carcinogens Or Potential Carcinogens. See Section Nine.

SECTION FOUR: FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A **Flammable Limits:** LEL: N/A UEL: N/A

Hazardous Decomposition Products: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide. Under severe thermal degradation low molecular weight hydrocarbons may be formed.

Extinguishing Media: Water, Foam, Carbon Dioxide or Dry Chemical.

Special Firefighting Procedures: The use of self-contained breathing apparatus is recommended. Use water to cool exposed material.

Unusual Fire And Explosion Hazards: Keep work areas free of hot metal surfaces and other sources of ignition.

Auto Ignition: N/A

SECTION FIVE: HEALTH HAZARD DATA

Permissible Exposure Limit: Refer to Section Two

Threshold Limit Value: Refer to Section Two

Effects Of Acute Overexposure:

N-Butyl Acetate - Eye contact causes severe irritation. Vapors may be irritating and cause dizziness, headache, nausea, vomiting, and narcosis.

Effects Of Chronic Overexposure: Refer to Section Two

Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals:, liver abnormalities, kidney damage, lung damage, brain damage. blood abnormalities. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (inhalation).

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Immediately flush with large quantities of water for at least 15 minutes. Seek immediate medical attention.
Skin Contact: If this product comes in contact with the skin, wash with soap and large quantities of water and seek medical attention if irritation persists.
Inhalation: If victim exhibits respiratory distress, remove the victim from the contaminated area. If breathing stops, begin artificial respiration and seek immediate medical attention.
Ingestion: If product is consumed, induce vomiting if victim is conscious. Seek immediate medical advice/attention.
Primary Route Of Entry: (Refer To Section Two) Inhalation
Medical Conditions Aggravated By Exposure:

Skin- People with pre-existing skin disorders may be more susceptible to the effects of this product.

Inhalation- People with pre-existing respiratory disorders such as asthma, may be aggravated by exposure to this material.

SECTION SIX: REACTIVITY DATA

Hazardous Polymerization: Will not occur.

Stability: This product is stable in most conditions. Use this product only as recommended by manufacturer.

Incompatibility: Avoid contact with strong oxidizing agents.

Conditions To Avoid: N/A

SECTION SEVEN: SPILL OR LEAK PROCEDURES

Procedure: Keep sources of ignition and hot metal surfaces isolated from spill. Spilled material may be removed with inert absorbent and shovel. Dispose of product in accordance with applicable local, county, state and federal regulations.

SECTION EIGHT: PROTECTIVE EQUIPMENT TO BE USED

Ventilation

Respiratory Protection: (Refer To Section Two) The use of respiratory protection depends on vapor concentrations. If above the TLV or PEL.(see section two), use a National Institute of Occupational Safety and Health approved organic vapor respirator.
Local Exhaust: Required if general ventilation proves inadequate to maintain safe vapor concentrations. Indoors: do not use in a confined space without adequate mechanical ventilation.
Special: N/A
Mechanical: Use mechanical general room or local ventilation if necessary to maintain employee exposure below the PEL's and TLV's (noted in section two).
Outdoors: Mechanical ventilation or respiratory protection not normally required.

Protective Clothing

Protective Gloves: If protection is needed by sensitive skin individuals, rubber gloves are recommended.
Eye Protective: Safety glasses, chemical goggles, and/or face shields are recommended to safeguard against potential eye contact.
Other Equipment: The availability of eye washes and safety showers in work areas is recommended. Impermeable aprons are advised to prevent skin contact.

SECTION NINE: SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Keep product containers cool, dry and away from sources of ignition. Keep from freezing. Use and store product with adequate ventilation. Keep product containers closed when not in use.
Other Precautions: Avoid inhalation of vapors. Avoid personal contact with the product. Product may be toxic to tropical fish.
Label Precautions: Caution: Keep out of reach of children. Do not take internally.

The information contained in this document is based upon available data and believed to be accurate. However, because the information has been obtained from various sources over which Ensign-Bickford Industries, Inc. (EBI) has no control, including the manufacturer and independent laboratories, it is provided without warranty or representation that it is complete, accurate or can be relied upon. Because EBI cannot anticipate or control the many situations in which this product may be used, EBI makes no warranty that the health and safety precautions set out in this document will be proper under all conditions. It is the sole responsibility of each user of this product to determine what is appropriate for your use and to comply with the requirements of all applicable laws. This information is provided solely for health and safety purposes. Any other use of this information is expressly prohibited.

MATERIAL SAFETY DATA SHEET

MSDS Name: POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR
MSDS Number: sD11515C
Version Number 2
Revision Date: OCT-13-2005
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**POLYSEAMSEAL TUB & TILE Adhesive Caulk - CLEAR**
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**HENKEL CONSUMER ADHESIVES** 7405 PRODUCTION DRIVE MENTOR OH 44060
Contact (24 hour):	Customer Affairs (800)321-0253
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour):	(703) 527-3887 (International) (800) 424-9300
in Canada CANUTEC	613-996-6666
Product Class	CAULK
Trade Name	**POLYSEAMSEAL**
Product Code	-- Clear

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA

No OSHA hazardous ingredients known at this time.

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SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Milky-white caulk
Appearance/Color:	CLEAR when dry
Solubility (in water):	Yes
pH Value, +/-.3:	7.5
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	15.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	Approx 36.%
% Volatile, Volume	40.%
Specific Gravity:	1.06
VOC (less H2O or exempt)	<15 g/l, (1%)

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class N/A
Flash Range: Not Applicable
Explosive Range (LEL/UEL): Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.

SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
Entry through Inhalation and Skin most likely
TARGET ORGANS...
None- No hazardous ingredients as per OSHA Regulations
CARCINOGENICITY...
NTP? N/A | IARC Monographs? N/A | OHSA? NO

EFFECTS OF OVEREXPOSURE

Inhalation: May cause nose or throat irritation.
Skin/Eye Contact: May cause irritation.
Ingestion: Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES

Inhalation: If affected by inhalation, remove to fresh air.
Eye Contact: Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact: Wash skin thoroughly with soap and water.
Ingestion: Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

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SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

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INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

- -

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (DOT) - DOMESTIC
Caulking compound, Non Regulated

AIR TRANSPORT (IATA) - INTERNATIONAL
Caulking compound, Non Regulated

MARINE - OCEAN TRANSPORT (IMDG)
Caulking compound, Non Regulated

- -

SECTION X - REGULATORY INFORMATION:

Product is regulated by OSHA Hazard Communication standard (29CFR 1910.1200). However none of the five Hazard Catagories (SARA 311, 312) are appropriate for this product.
SARA Section 313 toxic chemicals: NONE
All ingredients TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
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MSDS 3504

3504: Dap White Silicone
MSDS Last updated: 10/02/2006

XIAMETER®

MATERIAL SAFETY DATA SHEET

Version: 1.4
Revision Date: 2005/06/01

DAP® 100% SILICONE RUBBER SEALANT WHITE, 8646

1. PRODUCT AND COMPANY IDENTIFICATION

Dow Corning Corporation	24 Hour Emergency Telephone: (989) 496-5900
South Saginaw Road	Customer Service: (989) 496-6000
Midland, Michigan 48686	Product Disposal Information: (989) 496-6315
	CHEMTREC: (800) 424-9300
MSDS No.: 04061404	Revision date: 2005/06/01

Generic Description: Silicone elastomer
Physical Form: Paste
Color: See product name
Odor: Acetic acid odor

NFPA Profile: Health 2 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

CAS Number	Wt %	Component Name
17689-77-9	1.0 - 5.0	Ethyltriacetoxysilane
4253-34-3	1.0 - 5.0	Methyltriacetoxysilane

The above components are hazardous as defined in 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Acute Effects

Eye: Direct contact may cause moderate irritation.
Skin: May cause moderate irritation.
Inhalation: Material is not likely to present an inhalation hazard at ambient conditions. However, if material is heated or high vapor/aerosol concentrations are attained, central nervous system depression may occur, which is characterized by drowsiness, dizziness, confusion or loss of coordination.
Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: No known applicable information.
Inhalation: No known applicable information.
Oral: Repeated ingestion or swallowing large amounts may injure internally.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar composition, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

4. FIRST AID MEASURES

Eye: Immediately flush with water for 15 minutes. Get medical attention.

Skin: Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

Inhalation; Material is not likely to present an inhalation hazard at ambient conditions.
If material is heated or vapor/mist/dust/fumes are generated, care should be taken to prevent inhalation.
In case of exposure to vapor/mist/dust/fumes, move to fresh air.

Oral: Get medical attention.

Comments: Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point: > 212 F / > 100 C (Closed Cup)

Auto ignition Temperature: Not determined.

Flammability Limits in Air: Not determined.

Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO_2), dry chemical or water spray. Water can be used to cool fire exposed containers.

Fire Fighting Measures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire Hazards: None.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde. Metal oxides.
Nitrogen oxides. Sulfur oxides. Chlorine compounds.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Observe all personal protection equipment recommendations Described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.
Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases.
You will need to determine which federal, state and local laws and regulations are applicable.
Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills.
Call (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact.
Do not take internally. Avoid breathing vapor. Keep container closed.

Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
17689-77-9	Ethyltriacetoxysilane	See acetic acid comments
4253-34-3	Methyltriacetoxysilane	See acetic acid comments

Acetic acid is formed upon contact with water or humid air.
Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Engineering Controls

Local Ventilation: Recommended.
General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves: Butyl Rubber. Nitrile Rubber.

Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: Respiratory protection is not needed under ambient conditions. if vapor/mist/dust/fumes are generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal Protective Equipment for Spills

Eyes: Use full face respirator.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Inhalation/Suitable Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Precautionary Measures: Avoid eye contact. Avoid skin contact. Do not take internally. Avoid breathing vapor. Keep container closed. Use reasonable care.

Comments: Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection.

When heated to temperatures above 150 C (300 F) in the presence of air, product may form formaldehyde vapors. Physical and health hazard information is readily available from Dow Corning corporation and the Material Safety Data Sheet.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form;	Paste
Color:	See product name
Odor:	Acetic acid odor
Specific Gravity @ 25C:	1.007
Viscosity:	Not Determined.
Freezing/Melting Point:	Not Determined.
Boiling Point:	Not Determined.
Vapor Pressure @ 25 C:	Not Determined.
Vapor Density:	Not Determined.
Solubility In Water:	Not Determined.
pH:	Not Determined.
Volatile Content:	Not Determined.

Note: The above information is not intended for use in preparing product specifications.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid: None

Materials to Avoid: Oxidizing material can cause a reaction. Water, moisture, Or humid air can cause hazardous vapors to form as described in Section 8.

11. TOXICOLOGICAL INFORMATION

Component Toxicology Information

Inhalation of fumes may result in metal fume fever, a flu-like illness with symptoms of metallic taste, fever and chills, aches, chest tightness, and cough.

Special Hazard Information on Components

No known applicable information.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

	Ecotoxicity Classification Criteria		
Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <=2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment" ASTM STP 1179, p.34, 1993

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

Call (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 355):
None

Section 304 CERCLA Hazardous Substances (40CFR 302):
None

Section 311/312 Hazard Class (40 CFR 370):
Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No

Section 313 Toxic Chemicals (40 CFR 372):
None present or none present in regulated quantities.

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as
being known to cause cancer, birth defects or other reproductive harm.

None known.

Massachusetts

CAS Number	Wt %	Component Name
7631-86-9	7.0 - 13.0	Silica, amorphous
1333-86-4	<=2.0	Carbon black
13463-67-7	<=1.8	Titanium dioxide
1309-37-1	<=1.0	Iron oxide

New Jersey

CAS Number	Wt %	Component Name
70131-67-8	>60.0	Dimethyl siloxane, hydroxyl-terminated
7631-86-9	7.0 - 13.0	Silica, amorphous
64742-46-7	<=6.9	Hydro treated middle petroleum distillates
1333-86-4	<=2.0	Carbon black

1332-37-2	<=2.0	Iron oxide
147-14-8	<=2.0	Tetrabenzo-5,10,15,20-Diazaporphyrinephthalocyanine (Pigment blue 15)
63148-62-9	1.0 - 5.0	Polydimethylsiloxane
17689-77-9	1.0 - 5.0	Ethyltriacetoxysilane
13463-67-7	<=1.8	Titanium dioxide
4253-34-3	1.0 - 5.0	Methyltriacetoxysilane
1309-37-1	<=1.0	Iron oxide

Pennsylvania

CAS Number	Wt %	Component Name
70131-67-8	> 60.0	Dimethyl siloxane, hydroxyl-terminated
7631-86-9	7.0 - 13.0	Silica, amorphous
64742-46-7	<=6.9	Hydro treated middle petroleum distillates
1333-86-4	<=2.0	Carbon black
13463-67-7	<=1.8	Titanium dioxide
1309-37-1	<=1.0	Iron oxide

16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

XIAMETER® is a trademark of Dow Corning Corporation

http://www.xiameter.com

The information contained in this MSDS was obtained from current and reliable sources, however, the data is provided without any warrenty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of Imperial Supplies LLC, Imperial will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.

XIAMETER(R)
Material Safety Data Sheet

DAP(R) 73473 SILICONE SEALANT CLEAR CDN

1. PRODUCT AND COMPANY IDENTIFICATION

Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

24 Hour Emergency Telephone: (989) 496-5900
Customer Service: (989) 496-6000
Product Disposal Information: (989) 496-6315
CHEMTREC: (800) 424-9300

MSDS No.: 04061396 Revision Date: 2005/06/01

Generic Description: Silicone elastomer
Physical Form: Paste
Color: Colorless
Odor: Acetic acid odor

NFPA Profile: Health 2 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

CAS Number	Wt %	Component Name
17689-77-9	1.0 - 5.0	Ethyltriacetoxysilane
4253-34-3	1.0 - 5.0	Methyltriacetoxysilane

The above components are hazardous as defined in 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Acute Effects

Eye: Direct contact may cause moderate irritation.

Skin: May cause moderate irritation.

Inhalation: Material is not likely to present an inhalation hazard at ambient conditions. However, if material is heated or high vapor/aerosol concentrations are attained, central nervous system depression may occur, which is characterized by drowsiness, dizziness, confusion or loss of coordination.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: No known applicable information.

Inhalation:	No known applicable information.
Oral:	No known applicable information.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

4. FIRST AID MEASURES

Eye:	Immediately flush with water for 15 minutes. Get medical attention.
Skin:	Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
Inhalation:	Material is not likely to present an inhalation hazard at ambient conditions. If material is heated or vapor/mist/dust/fumes are generated, care should be taken to prevent inhalation. In case of exposure to vapor/mist/dust/fumes, move to fresh air.
Oral:	No first aid should be needed.
Comments:	Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point:	> 212 °F / > 100 °C (Closed Cup)
Autoignition Temperature:	Not determined.
Flammability Limits in Air:	Not determined.
Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire Hazards:	None.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous

decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. Do not take internally. Avoid breathing vapor. Keep container closed.

Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
17689-77-9	Ethyltriacetoxysilane	See acetic acid comments.
4253-34-3	Methyltriacetoxysilane	See acetic acid comments.

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Engineering Controls

Local Ventilation: Recommended.
General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

DAP(R) 73473 SILICONE SEALANT CLEAR CDN

Eyes:	Use proper protection - safety glasses as a minimum.
Skin:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Suitable Gloves:	Nitrile Rubber. Butyl Rubber.
Inhalation:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.
Suitable Respirator:	Respiratory protection is not needed under ambient conditions. If vapor/mist/dust/fumes are generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal Protective Equipment for Spills

Eyes:	Use full face respirator.
Skin:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Inhalation/Suitable Respirator:	Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Precautionary Measures:	Avoid eye contact. Avoid skin contact. Do not take internally. Avoid breathing vapor. Keep container closed. Use reasonable care.
Comments:	Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. When heated to temperatures above 150 C (300 F) in the presence of air, product may form formaldehyde vapors. Physical and health hazard information is readily available from Dow Corning Corporation and the Material Safety Data Sheet.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Paste

Color:	Colorless
Odor:	Acetic acid odor
Specific Gravity @ 25°C:	1.007
Viscosity:	Not determined.
Freezing/Melting Point:	Not determined.
Boiling Point:	Not determined.
Vapor Pressure @ 25°C:	Not determined.
Vapor Density:	Not determined.
Solubility in Water:	Not determined.
pH:	Not determined.
Volatile Content:	Not determined.

Note: The above information is not intended for use in preparing product specifications.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	None.
Materials to Avoid:	Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8.

11. TOXICOLOGICAL INFORMATION

Special Hazard Information on Components

No known applicable information.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

DAP(R) 73473 SILICONE SEALANT CLEAR CDN

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

Call (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 355):
None.

Section 304 CERCLA Hazardous Substances (40 CFR 302):
None.

Section 311/312 Hazard Class (40 CFR 370):
Acute: Yes
Chronic: No
Fire: No

Pressure: No
Reactive: No

Section 313 Toxic Chemicals (40 CFR 372):
None present or none present in regulated quantities.

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

Massachusetts

CAS Number	Wt %	Component Name
7631-86-9	7.0 - 13.0	Silica, amorphous

New Jersey

CAS Number	Wt %	Component Name
70131-67-8	> 60.0	Dimethyl siloxane, hydroxy-terminated
7631-86-9	7.0 - 13.0	Silica, amorphous
64742-46-7	<=7.0	Hydrotreated middle petroleum distillates
17689-77-9	1.0 - 5.0	Ethyltriacetoxysilane
4253-34-3	1.0 - 5.0	Methyltriacetoxysilane

Pennsylvania

CAS Number	Wt %	Component Name
70131-67-8	> 60.0	Dimethyl siloxane, hydroxy-terminated
7631-86-9	7.0 - 13.0	Silica, amorphous
64742-46-7	<=7.0	Hydrotreated middle petroleum distillates

DAP(R) 73473 SILICONE SEALANT CLEAR CDN

16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

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Material Safety Data Sheet (MSDS)

MSDS # 0003
Revision 1

0150 Tub & Wall Caulk Strip
0151 Tub & Wall Caulk Strip

NFPA Rating: 1-2-0
HMIS Rating: 1-2-0-B

SECTION I

		EMERGENCY TELEPHONE NO.
TRADE NAME (IF NONE, PUT CHEMICAL)	Tub & Wall Caulk Strip	(918) 825-5744 (24 Hrs.)
MANUFACTURER'S NAME AND TELEPHONE NO.	Red Devil, Incorporated (918) 825-5744	
ADDRESS (Number, Street, City, State, Zip Code)	4175 Webb Street, Pryor, Oklahoma 74361	

SECTION II - HAZARDOUS INGREDIENTS

	%	TLV	PEL	UNITS
PRODUCT CONSISTS OF:				
Proprietary Butyl Mastic (Mixture)	<20%	NE	NE	NA
Calcium carbonate** [1317-65-3] (as nuisance particulate, total)	>70%	10	15	mg/m3
Non-hazardous ingredients*	>10%	NA	NA	NA

*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).
**Inhalation of particulates unlikely due to product's physical state
VOC: 12.4%/wt. CARB Compliance: YES. Prop 65 Ingredients: NONE

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	NA	**SPECIFIC GRAVITY (H_2O=1)**	NA
VAPOR PRESSURE (MM Hg.)	NA	**PERCENT VOLATILES BY VOLUME (%)**	NA
VAPOR DENSITY (AIR=1)	NA	**pH**	NA
SOLUBILITY IN WATER	Insoluble	**EVAPORATION RATE**	NA
APPEARANCE AND ODOR	White Caulk Strip, Slight Organic Odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NA	**FLAMMABLE LIMITS**	NA	**LEL**	**UEL**
EXTINGUISHING MEDIA	Water, foam, dry chemical, carbon dioxide				
SPECIAL FIRE FIGHTING PROCEDURES	None Known				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None Known				

NA - Not Applicable NE - Not Established UN - Unavailable

SECTION V - HEALTH HAZARD INFORMATION

SYMPTOM/EFFECTS OR OVEREXPOSURE

FIRST AID

EYES
Solid or dust may cause mechanical irritation. In case of eye contact, immediately flush eye with running water for 15 minutes. Consult a physician if necessary.

SKIN
No adverse effects anticipated, as the product is not likely to be hazardous by skin contact. Consult a physician if necessary.

INHALATION
No adverse effects anticipated, as the product is not likely to be hazardous by inhalation. Consult a physician if necessary.

INGESTION
No adverse effects anticipated, as the product is not likely to be hazardous by ingestion. Consult a physician if necessary.

SECTION VI - REACTIVITY DATA

STABILITY
Normally stable. Avoid heat, open flame.

INCOMPATIBLE MATERIALS
None Known

HAZARDOUS DECOMPOSITION PRODUCTS
Flammable hydrocarbons, oxides of carbon

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURES
NA

WASTE DISPOSAL METHOD
Comply with Federal, State & Local Regulations for disposal.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY
Not required

EYEWEAR Not required

CLOTHING/GLOVES
Not required

VENTILATION
Use local ventilation

SECTION IX - SPECIAL PRECAUTIONS

Store in a closed container in cool area. Avoid heat & open flame.

Reviewed By: Larry G. Brandon VP Technology & General Manager June 24, 2004

NAME TITLE DATE

The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or for the consequences of its use or misuse.

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

IMPORTANT: Read this MSDS before handling or disposing of this product, and provide this information to the employees, customers, and users of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name: LTX WINDOW GLAZING - 12049
Product UPC Number: 7079812108 7079812049 7079870980
Product Use/Class: Latex Caulk
Manufacturer: **DAP Inc.**
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-5477 (non-emergency matters)

Revision Date: 11/17/2003
Supercedes: 11/17/2003
MSDS Number: 00010404001

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	SKIN
Di(C9) ester branched & linear	Proprietary	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Di(c7) ester branch & linear	Proprietary	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Ester Branched & Linear(C7&C9)	Proprietary	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Ethylene glycol	107-21-1	0.5-1.5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Silica, crystalline	14808-60-7	0.1-1.0	0.05 MGM3	N.E.	N.E.	N.E.	N.E.	N.E.	No
Formaldehyde	50-00-0	<0.02	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No
Acetaldehyde	75-07-0	<0.002	N.E.	N.E.	25 PPM	200 PPM	N.E.	N.E.	No
Acrylonitrile	107-13-1	<0.0002	2 PPM	N.E.	N.E.	2 PPM	10 PPM	N.E.	Yes

Exposure Notes:

CASRN	Exposure Note
14808-60-7	The 2002 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter. The TLVs for crystalline silica represent the respirable fraction. OSHA PEL TLV for Quartz is calculated using the following formula: 10 mg/m3/(% SiO2 + 2). Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics. |----------|----------| | ..... Aerodynamic diameter (unit density sphere) .....| Percent passing selector | | 2 .....|.....90.....| | 2.5 .....|.....75.....|

	| 3.5 .....|.....50.....| | 5.0 .....|.....25.....| | 10 .....|.....0.....|
50-00-0	Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.
107-13-1	Acrylonitrile is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1045. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1045.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A(n) White to Off-White Paste product. WARNING! Harmful if swallowed or absorbed through the skin. This product contains ethylene glycol. May cause eye, skin, nose, throat and respiratory tract irritation.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Causes skin irritation. Prolonged or repeated contact with skin may cause irritation. May cause allergic skin reaction or sensitization. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Causes nose and throat irritation. Causes lung irritation. Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: Harmful or fatal if swallowed. Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death.

Effects Of Overexposure - Chronic Hazards: Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Repeated or prolonged exposure may cause respiratory system damage. Prolonged and repeated skin contact may cause irritation and possibly dermatitis. Formaldehyde vapor is a known animal carcinogen IARC and NTP and is considered possibly carcinogenic to humans by inhalation. Ethylene glycol has been shown to cause birth defects in laboratory animals. Overexposure may cause kidney, cardiovascular, skin and liver damage.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation

Medical Conditions which May be Aggravated by Exposure: None known.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Note to Physician: No Information.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arise from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: > 200 Fahrenheit
Method: (Seta Closed Cup)

Lower Explosive Limit, %: Not Established
Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN! Use only with adequate ventilation. Ensure fresh air entry during application and drying. Avoid breathing vapor and contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage: Close container after each use. Store containers away from excessive heat and freezing. Store away from caustics and oxidizers. Do not store at temperatures above 120 degrees F.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: No Information.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Rubber gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Not Established
Odor:	Not Established	**Odor Threshold:**	Not Established
Appearance:	A white to off white paste product	**Evaporation Rate:**	Not Established
Solubility in H2O:	Not Established	**Specific Gravity:**	1.826
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e. COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established

Product LC50: Not Established

CASRN	Chemical Name	LD50	LC50
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg
50-00-0	Formaldehyde	----------	Rat:203 mg/m3
107-13-1	Acrylonitrile	Oral Rat:78 mg/kg	Rat:425 ppm/4H

Carcinogenity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
14808-60-7	Silica, crystalline	Suspected human carcinogen.	-----	-----	Known carcinogen.
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Probable carcinogen.	Anticipated carcinogen.
107-13-1	Acrylonitrile	Confirmed animal carcinogen with unknown relevance to humans.	Cancer hazard.	Possible carcinogen.	Anticipated carcinogen.
75-07-0	Acetaldehyde	Confirmed animal carcinogen with unknown relevance to humans.	-----	Possible carcinogen.	Anticipated carcinogen.

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA, NTP and IARC identify formaldehyde as a potential carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the significance of which to humans is unknown. In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits. Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261.

Section 14 - Transportation Information

DOT Proper Shipping Name: Not Regulated
DOT Technical Name: N.A.
DOT Hazard Class: N.A.
Packing Group: N.A.
Hazard Subclass: N.A.
DOT UN/NA Number: N.A.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Ethylene glycol	107-21-1

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

U.S. State Regulations:

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number
Non-Hazardous Polymer	Proprietary
Water	7732-18-5

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number
Non-Hazardous Polymer	Proprietary
Water	7732-18-5

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

Chemical Name	CAS Number	Definition	Date Listed
Silica, crystalline	14808-60-7	Carcinogenic.	Listed: October 1, 1988
Formaldehyde	50-00-0	Carcinogenic.	Listed: January 1, 1988
Acrylonitrile	107-13-1	Carcinogenic.	Listed: July 1, 1987
Acetaldehyde	75-07-0	Carcinogenic.	Listed: April 1, 1988

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm.

None

Section 16 - Other Information

HMIS Ratings:

Health: Flammability: Reactivity: Personal Protection:

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 48.7 LB/GAL: 0.4 WT%: 2.2

REASON FOR REVISION:

Legend:

N.A. – Not Applicable
N.E. – Not Established
N.D. – Not Determined
VOC – Volatile Organic Compound
PEL – Permissible Exposure Limit
TLV – Threshold Limit Value
STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50
F – Degree Fahrenheit

ACGIH – American Conference of Governmental Industrial Hygienists
SARA – Superfund Amendments and Reauthorization Act of 1986
NJRTK – New Jersey Right-to-Know Law
OSHA – Occupational Safety and Health Administration
HMIS – Hazardous Materials Identification System
NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit
LC50 – Lethal Concentration 50
C – Degree Celcius

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name: DAPTEX® LATEX FOAM MP SEALANT
Product UPC Number: 7079818826 7079818833 7079818834 7079871060
Product Use/Class: Pressurized Latex Foam
Manufacturer: **DAP Inc.**
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non-emergency matters)

Revision Date: 02/23/2004
Supercedes: 01/19/2004
MSDS Number: 00077346001

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Isopropyl alcohol	67-63-0	1-5	200 PPM	400 PPM	N.E.	400 PPM	N.E.	N.E.	No
Ethylene glycol	107-21-1	1-5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Dimethyl ether	115-10-6	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Propane	74-98-6	1-5	2500 PPM	N.E.	N.E.	1000 PPM	N.E.	N.E.	No
n-Butane	106-97-8	1-5	800 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	No
Vinyl acetate	108-05-4	0.1-1.0	10 PPM	15 PPM	N.E.	N.E.	N.E.	N.E.	No
Aliphatic amines	Proprietary	0.1-1.0	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.

Exposure Notes:

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A white to off-white liquid with a slight alcoholic odor. DANGER! Contents under pressure. Harmful if swallowed or absorbed through the skin. Exposure to temperatures above 120 'F may cause can to rupture. May cause eye, skin, nose, throat and respiratory tract irritation. Vapors harmful if inhaled. Do not puncture can. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May causes skin irritation. Prolonged or repeated contact with skin may cause irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose and throat irritation.

Effects Of Overexposure - Ingestion: Harmful or fatal if swallowed. Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death.

Effects Of Overexposure - Chronic Hazards: This product contains vinyl acetate which is classified as a class 2B carcinogen by IARC. Vinyl acetate was found to cause cancer in the respiratory tract of laboratory animals. There is no evidence that vinyl acetate causes cancer in humans. The IARC published a monograph on vinyl acetate (1995). In this monograph, IARC indicates "there is inadequate evidence in humans for carcinogenicity of vinyl acetate. There is limited evidence in experimental animals for the carcinogenicity of vinyl acetate." Normally, this lack of conclusive evidence would place a substance in the IARC 3 classification (not classified as a human carcinogen). However, because vinyl acetate is metabolized to acetaldehyde, which has an IARC 2B (possibly carcinogenic to humans) classification, it also has been listed under Category 2B.

Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Ethylene glycol has been shown to cause birth defects in laboratory animals.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Repeated or prolonged exposure may cause respiratory system damage. Prolonged and repeated skin contact may cause irritation and possibly dermatitis.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing.

First Aid - Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Note to Physician: No Information.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arise from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: Aerosol (Extremely Flammable)
Method: (Not Applicable)

Lower Explosive Limit, %: Not Established

Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Store away from caustics and oxidizers. Containers may explode if exposed to extreme heat.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Provide fresh air such that chemical odors cannot be detected during use and while drying. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Avoid breathing vapor and contact with eyes, skin and clothing. Make sure nozzle is directed away from yourself prior to discharge. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Construction and repair activities can adversely affect indoor air quality. Consult with occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize impact. Wash thoroughly after handling.

Storage: Store containers away from excessive heat and freezing. Do not store at temperatures above 120 degrees F. Keep away from heat and sources of ignition. Protect material from direct sunlight. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Vapors are heavier than air and may spread along floors. Check all low areas for presence of vapor. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits. Provide sufficient general and/or local exhaust ventilation to maintain exposure below recommended exposure limit.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If concentrations exceed the exposure limits specified, use of a NIOSH-

approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. No personal respiratory protective equipment normally required.

Skin Protection: Rubber gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Heavier than air
Odor:	Slight Alcoholic	**Odor Threshold:**	Not Established
Appearance:	White foaming liquid	**Evaporation Rate:**	Slower than n-butyl acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	0.996
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Liquid		

When reported, the vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e. COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
67-63-0	Isopropyl alcohol	Rat:5045 mg/kg	Rat:16000 ppm/8H
107-21-1	Ethylene glycol	Rat:4700 mg/kg	----------
106-97-8	n-Butane	----------	Rat:658 gm/m3/4H
108-05-4	Vinyl acetate	----------	Rat:11400 mg/m3/4H

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
108-05-4	Vinyl acetate	Confirmed animal carcinogen with unknown relevance to humans.	-----	Possible carcinogen.	-----

Significant Data with Possible Relevance to Humans: None

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): D001 if residue remains

Section 14 - Transportation Information

DOT Proper Shipping Name:	Consumer Commodity	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	ORM-D Other regulated material	**DOT UN/NA Number:**	N.A.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Isopropyl alcohol	67-63-0
Ethylene glycol	107-21-1
Vinyl acetate	108-05-4

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

U.S. State Regulations:

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number
Non-Hazardous Polymer	Proprietary
Water	7732-18-5

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number
Non-Hazardous Polymer	Proprietary
Water	7732-18-5

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

None

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm.

None

Section 16 - Other Information

HMIS Ratings:

Health: 0 Flammability: 3 Reactivity: 0

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 170.3 LB/GAL: 1.4 WT%: 11.3

REASON FOR REVISION:

Legend:

N.A. – Not Applicable

N.E. – Not Established

N.D. – Not Determined

VOC – Volatile Organic Compound

PEL – Permissible Exposure Limit

TLV – Threshold Limit Value

STEL – Short Term Exposure Limit

ACGIH – American Conference of Governmental Industrial Hygienists

SARA – Superfund Amendments and Reauthorization Act of 1986

NJRTK – New Jersey Right-to-Know Law

OSHA – Occupational Safety and Health Administration

HMIS – Hazardous Materials Identification System

NTP – National Toxicology Program

CEIL – Ceiling Exposure Limit

LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	C – Degree Celcius
MSDS – Material Safety Data Sheet	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name: DAPTEX® LATEX FOAM MP SEALANT
Product UPC Number: 7079818826 7079818833 7079818834 7079871060
Product Use/Class: Pressurized Latex Foam
Manufacturer: **DAP Inc.**
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non-emergency matters)

Revision Date: 02/23/2004
Supercedes: 01/19/2004
MSDS Number: 00077346001

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Isopropyl alcohol	67-63-0	1-5	200 PPM	400 PPM	N.E.	400 PPM	N.E.	N.E.	No
Ethylene glycol	107-21-1	1-5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Dimethyl ether	115-10-6	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Propane	74-98-6	1-5	2500 PPM	N.E.	N.E.	1000 PPM	N.E.	N.E.	No
n-Butane	106-97-8	1-5	800 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	No
Vinyl acetate	108-05-4	0.1-1.0	10 PPM	15 PPM	N.E.	N.E.	N.E.	N.E.	No
Aliphatic amines	Proprietary	0.1-1.0	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.

Exposure Notes:

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A white to off-white liquid with a slight alcoholic odor. DANGER! Contents under pressure. Harmful if swallowed or absorbed through the skin. Exposure to temperatures above 120 'F may cause can to rupture. May cause eye, skin, nose, throat and respiratory tract irritation. Vapors harmful if inhaled. Do not puncture can. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May causes skin irritation. Prolonged or repeated contact with skin may cause irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose and throat irritation.

Effects Of Overexposure - Ingestion: Harmful or fatal if swallowed. Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death.

Effects Of Overexposure - Chronic Hazards: This product contains vinyl acetate which is classified as a class 2B carcinogen by IARC. Vinyl acetate was found to cause cancer in the respiratory tract of laboratory animals. There is no evidence that vinyl acetate causes cancer in humans. The IARC published a monograph on vinyl acetate (1995). In this monograph, IARC indicates "there is inadequate evidence in humans for carcinogenicity of vinyl acetate. There is limited evidence in experimental animals for the carcinogenicity of vinyl acetate." Normally, this lack of conclusive evidence would place a substance in the IARC 3 classification (not classified as a human carcinogen). However, because vinyl acetate is metabolized to acetaldehyde, which has an IARC 2B (possibly carcinogenic to humans) classification, it also has been listed under Category 2B.

Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Ethylene glycol has been shown to cause birth defects in laboratory animals.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Repeated or prolonged exposure may cause respiratory system damage. Prolonged and repeated skin contact may cause irritation and possibly dermatitis.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing.

First Aid - Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Note to Physician: No Information.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arise from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: Aerosol (Extremely Flammable)
Method: (Not Applicable)

Lower Explosive Limit, %: Not Established

Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Store away from caustics and oxidizers. Containers may explode if exposed to extreme heat.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Provide fresh air such that chemical odors cannot be detected during use and while drying. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Avoid breathing vapor and contact with eyes, skin and clothing. Make sure nozzle is directed away from yourself prior to discharge. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Construction and repair activities can adversely affect indoor air quality. Consult with occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize impact. Wash thoroughly after handling.

Storage: Store containers away from excessive heat and freezing. Do not store at temperatures above 120 degrees F. Keep away from heat and sources of ignition. Protect material from direct sunlight. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Vapors are heavier than air and may spread along floors. Check all low areas for presence of vapor. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits. Provide sufficient general and/or local exhaust ventilation to maintain exposure below recommended exposure limit.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If concentrations exceed the exposure limits specified, use of a NIOSH-

approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. No personal respiratory protective equipment normally required.

Skin Protection: Rubber gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Heavier than air
Odor:	Slight Alcoholic	**Odor Threshold:**	Not Established
Appearance:	White foaming liquid	**Evaporation Rate:**	Slower than n-butyl acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	0.996
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Liquid		

When reported, the vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e. COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
67-63-0	Isopropyl alcohol	Rat:5045 mg/kg	Rat:16000 ppm/8H
107-21-1	Ethylene glycol	Rat:4700 mg/kg	----------
106-97-8	n-Butane	----------	Rat:658 gm/m3/4H
108-05-4	Vinyl acetate	----------	Rat:11400 mg/m3/4H

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
108-05-4	Vinyl acetate	Confirmed animal carcinogen with unknown relevance to humans.	-----	Possible carcinogen.	-----

Significant Data with Possible Relevance to Humans: None

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): D001 if residue remains

Section 14 - Transportation Information

DOT Proper Shipping Name:	Consumer Commodity	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	ORM-D Other regulated material	**DOT UN/NA Number:**	N.A.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Isopropyl alcohol	67-63-0
Ethylene glycol	107-21-1
Vinyl acetate	108-05-4

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

U.S. State Regulations:

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number
Non-Hazardous Polymer	Proprietary
Water	7732-18-5

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number
Non-Hazardous Polymer	Proprietary
Water	7732-18-5

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

None

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm.

None

Section 16 - Other Information

HMIS Ratings:

Health: 0 Flammability: 3 Reactivity: 0

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 170.3 LB/GAL: 1.4 WT%: 11.3

REASON FOR REVISION:

Legend:

N.A. – Not Applicable

N.E. – Not Established

N.D. – Not Determined

VOC – Volatile Organic Compound

PEL – Permissible Exposure Limit

TLV – Threshold Limit Value

STEL – Short Term Exposure Limit

ACGIH – American Conference of Governmental Industrial Hygienists

SARA – Superfund Amendments and Reauthorization Act of 1986

NJRTK – New Jersey Right-to-Know Law

OSHA – Occupational Safety and Health Administration

HMIS – Hazardous Materials Identification System

NTP – National Toxicology Program

CEIL – Ceiling Exposure Limit

LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	C – Degree Celcius
MSDS – Material Safety Data Sheet	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name: DAPTEX® LATEX FOAM MP SEALANT
Product UPC Number: 7079818826 7079818833 7079818834 7079871060
Product Use/Class: Pressurized Latex Foam
Manufacturer: **DAP Inc.**
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non-emergency matters)

Revision Date: 02/23/2004
Supercedes: 01/19/2004
MSDS Number: 00077346001

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Isopropyl alcohol	67-63-0	1-5	200 PPM	400 PPM	N.E.	400 PPM	N.E.	N.E.	No
Ethylene glycol	107-21-1	1-5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Dimethyl ether	115-10-6	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Propane	74-98-6	1-5	2500 PPM	N.E.	N.E.	1000 PPM	N.E.	N.E.	No
n-Butane	106-97-8	1-5	800 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	No
Vinyl acetate	108-05-4	0.1-1.0	10 PPM	15 PPM	N.E.	N.E.	N.E.	N.E.	No
Aliphatic amines	Proprietary	0.1-1.0	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.

Exposure Notes:

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A white to off-white liquid with a slight alcoholic odor. DANGER! Contents under pressure. Harmful if swallowed or absorbed through the skin. Exposure to temperatures above 120 'F may cause can to rupture. May cause eye, skin, nose, throat and respiratory tract irritation. Vapors harmful if inhaled. Do not puncture can. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May causes skin irritation. Prolonged or repeated contact with skin may cause irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose and throat irritation.

Effects Of Overexposure - Ingestion: Harmful or fatal if swallowed. Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death.

Effects Of Overexposure - Chronic Hazards: This product contains vinyl acetate which is classified as a class 2B carcinogen by IARC. Vinyl acetate was found to cause cancer in the respiratory tract of laboratory animals. There is no evidence that vinyl acetate causes cancer in humans. The IARC published a monograph on vinyl acetate (1995). In this monograph, IARC indicates "there is inadequate evidence in humans for carcinogenicity of vinyl acetate. There is limited evidence in experimental animals for the carcinogenicity of vinyl acetate." Normally, this lack of conclusive evidence would place a substance in the IARC 3 classification (not classified as a human carcinogen). However, because vinyl acetate is metabolized to acetaldehyde, which has an IARC 2B (possibly carcinogenic to humans) classification, it also has been listed under Category 2B.

Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Ethylene glycol has been shown to cause birth defects in laboratory animals.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Repeated or prolonged exposure may cause respiratory system damage. Prolonged and repeated skin contact may cause irritation and possibly dermatitis.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing.

First Aid - Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Note to Physician: No Information.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arise from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: Aerosol (Extremely Flammable)
Method: (Not Applicable)

Lower Explosive Limit, %: Not Established

Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Store away from caustics and oxidizers. Containers may explode if exposed to extreme heat.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Provide fresh air such that chemical odors cannot be detected during use and while drying. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Avoid breathing vapor and contact with eyes, skin and clothing. Make sure nozzle is directed away from yourself prior to discharge. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Construction and repair activities can adversely affect indoor air quality. Consult with occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize impact. Wash thoroughly after handling.

Storage: Store containers away from excessive heat and freezing. Do not store at temperatures above 120 degrees F. Keep away from heat and sources of ignition. Protect material from direct sunlight. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Vapors are heavier than air and may spread along floors. Check all low areas for presence of vapor. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits. Provide sufficient general and/or local exhaust ventilation to maintain exposure below recommended exposure limit.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If concentrations exceed the exposure limits specified, use of a NIOSH-

approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. No personal respiratory protective equipment normally required.

Skin Protection: Rubber gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Heavier than air
Odor:	Slight Alcoholic	**Odor Threshold:**	Not Established
Appearance:	White foaming liquid	**Evaporation Rate:**	Slower than n-butyl acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	0.996
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Liquid		

When reported, the vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e. COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
67-63-0	Isopropyl alcohol	Rat:5045 mg/kg	Rat:16000 ppm/8H
107-21-1	Ethylene glycol	Rat:4700 mg/kg	----------
106-97-8	n-Butane	----------	Rat:658 gm/m3/4H
108-05-4	Vinyl acetate	----------	Rat:11400 mg/m3/4H

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
108-05-4	Vinyl acetate	Confirmed animal carcinogen with unknown relevance to humans.	-----	Possible carcinogen.	-----

Significant Data with Possible Relevance to Humans: None

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): D001 if residue remains

Section 14 - Transportation Information

DOT Proper Shipping Name:	Consumer Commodity	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	ORM-D Other regulated material	**DOT UN/NA Number:**	N.A.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Isopropyl alcohol	67-63-0
Ethylene glycol	107-21-1
Vinyl acetate	108-05-4

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

U.S. State Regulations:

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number
Non-Hazardous Polymer	Proprietary
Water	7732-18-5

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number
Non-Hazardous Polymer	Proprietary
Water	7732-18-5

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

None

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm.

None

Section 16 - Other Information

HMIS Ratings:

Health: 0 Flammability: 3 Reactivity: 0

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 170.3 LB/GAL: 1.4 WT%: 11.3

REASON FOR REVISION:

Legend:

N.A. – Not Applicable

N.E. – Not Established

N.D. – Not Determined

VOC – Volatile Organic Compound

PEL – Permissible Exposure Limit

TLV – Threshold Limit Value

STEL – Short Term Exposure Limit

ACGIH – American Conference of Governmental Industrial Hygienists

SARA – Superfund Amendments and Reauthorization Act of 1986

NJRTK – New Jersey Right-to-Know Law

OSHA – Occupational Safety and Health Administration

HMIS – Hazardous Materials Identification System

NTP – National Toxicology Program

CEIL – Ceiling Exposure Limit

LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	C – Degree Celcius
MSDS – Material Safety Data Sheet	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

MATERIAL SAFETY DATA SHEET

MSDS Name: SA-167 SILICONIZED ACRYLIC LATEX CAULK
MSDS Number: 16711-001
Version Number 2
MSDS Date: SEP-09-2002

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	SA-167 SILICONIZED ACRYLIC LATEX CAULK
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	OSI SEALANTS, INC.a Subsidiary of Sovereign Specialty Chems. 7405 PRODUCTION DRIVE MENTOR OH 44060
Information phone/Fax:	(440) 255-8900 (440) 974-8358
Emergency Phone (24 hour)	CHEMTREC (800) 424-9300
Chemtrec (outside-USA)	(703) 527-3887
Product Class	CAULK
Trade Name	PRO-SERIES
Product Code	16711-XXX

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
Titanium Dioxide **	13463-67-7	< 5.0	Y
ETHYLENE GLYCOL	107-21-1	< 2.0	Y
MINERAL SPIRITS	64742-48-9	< 2.0	Y

Ingredient Notes:
Remaining ingredients are not considered OSHA hazardous.
**The main hazard for Titanium Dioxide is dust inhalation. Because of its incorporation into the caulk, exposure by inhalation is unlikely.

- -

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	High viscosity caulk
Appearance/Color:	various colors
Solubility (in water):	yes
pH Value, +/-.3:	7.5

Boiling Range:	212.øF (100.øC)
Vapor Pressure (mmHg):	15.@ 68.øF (20.øC)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile, Weight	approx. 20.%
% Volatile, Volume	approx. 30.%
Specific Gravity:	1.556
VOC (less H2O or exempt)	41 Gr/L (2%)

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class	N/A
Flash Range:	Not Available
Explosive Range (LEL/UEL):	Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.
SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme
heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
ENTRY THROUGH...Inhalation and skin most likely

CARCINOGENICITY...
NTP? N/E | IARC Monographs? N/E | OHSA? NO
EFFECTS OF OVEREXPOSURE

Inhalation:	May irritate respiratory tract.
Skin/Eye Contact:	May cause irritation.
Ingestion:	Swallowing large amounts may cause nausea, vomiting. (an unlikely route of entry)

FIRST AID MEASURES
Inhalation: If affected by inhalation, remove to fresh air.
Eye Contact: Flush with water for at least 15 minutes, and get prompt medical attention.
Skin Contact: Wash skin thoroughly with soap and water.
Ingestion: Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

- -

SECTION VI - STABILITY AND REACTIVITY
Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATABILITY:
None
CONDITIONS TO AVOID:
None
HAZARDOUS DECOMPOSITION PRODUCTS:
May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:
Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.
WASTE DISPOSAL METHOD:
Dispose of in accordance with Federal, State, and Local regulations.

- -

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
Titanium Dioxide **	10.00 mg/F3	N/est	N/est	N/est	15.00 mg/F3
ETHYLENE GLYCOL	50.00 PPM	N/est	N/est	N/est	50.00 PPM
MINERAL SPIRITS	100.00 PPM	N/est	N/est	N/est	100.00 PPM

RESPIRATORY PROTECTION:
NIOSH respirators recommended if vapors and mists are generated.
VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

- -

SECTION IX - TRANSPORT INFORMATION:

DOT CLASSIFICATIONS FOR ONE GALLON AND UNDER CONTAINERS

DESCRIPTION: Non-hazardous
DOT CLASSIFICATIONS for OVER 1 GALLON size CONTAINERS

DESCRIPTION: Non-hazardous, Caulking product

- -

SECTION X - REGULATORY INFORMATION:
SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 2.0

The following ingredients are registered for TSCA 12B

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 2.0

Ethylene Glycol fits the EPA Hazard Category definition of Immediate (Acute) and Delayed (Chronic) Health Hazards under SARA Sect.311,312.

All chemical substances are TSCA listed.
California PROP.65 Chemicals: none known

DISCLAIMER:
The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and the user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment, and the health and safety of the users of this material.

Material Safety Data Sheet

An RPM Company

24 Hour Emergency Phone Numbers:
Medical/Poison Control:
In U.S.: Call 1-800-222-1222
Outside U.S.: Call your local poison control center
Transportation/National Response Center:
1-800-535-5053
1-352-323-3500

NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
On peut demader cette fiche signalétique (MSDS) a la langue francaise-canadienne.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name:	DAP Alex Painters Acrylic Latex Caulk - All Colors	**Revision Date:**	04/01/2008
Product UPC Number:	070798736313, 070798736351	**Supercedes:**	10/29/2004
Product Use/Class:	Latex Caulk	**MSDS Number:**	00010011605
Manufacturer:	**DAP Canada** **475 Finchdene Square Unit 5** **Scarborough, Ontario M1X 1B7** **888-327-8477 (non-emergency)**		

Section 2 - Hazards Identification

Emergency Overview: A colored paste product with a very slight ammonia odor. WARNING! May cause eye, skin, nose, throat and respiratory tract irritation. May cause eye or skin irritation. Harmful if swallowed or absorbed through the skin. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation of high concentrations may cause headache, nausea, and dizziness. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation may cause mild irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death. Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. If ingested, may cause vomiting, diarrhea, and depressed respiration. Ingestion may result in obstruction when material hardens.

Effects Of Overexposure - Chronic Hazards: Repeated or prolonged exposure may cause respiratory system damage.

Prolonged and repeated skin contact may cause irritation and possibly dermatitis.

The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2).
Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system. Overexposure may cause kidney, cardiovascular, skin and liver damage.

Formaldehyde vapor is a known animal carcinogen according to OSHA and NTP and is considered possibly carcinogenic to humans by inhalation. The International Agency for Research on Cancer considers formaldehyde to be a human carcinogen.

A mixture of diisodecyl phthalate and diisononyl phthalate has been tested in a two-generation toxicity study in laboratory animals. No effects on reproductive parameters were seen. However, a small but statistically significant increase in early offspring mortality was seen at high oral doses. The significance of this to humans is uncertain.

The mixture of phthalate esters contained within this product has been shown to cause developmental effects at high doses in laboratory animals when administered orally by gavage in a developmental study and developmental and fertility effects when administered at high doses by feed in a two-generation reproduction study. The potential risk from occupational and consumer exposure is considered to be very low, based on limited relevance of the rodent findings to humans and the large safety margins between exposure and the effect levels.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
14808-60-7	Silica, crystalline	Suspected human carcinogen.	Not Listed.	Human carcinogen.	Known carcinogen.
13463-67-7	Titanium dioxide	Not Listed.	Not Listed.	Possible carcinogen.	Not Listed.
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Human carcinogen.	Anticipated carcinogen.

Section 3 - Composition / Information On Ingredients

Chemical Name	CASRN	Wt%
Limestone	1317-65-3	40-70
Branched and linear phthalates	Proprietary	1-5
Stoddard solvent	8052-41-3	0.5-1.5
Ethylene glycol	107-21-1	0.1-1.0
Silica, crystalline	14808-60-7	0.1-1.0
Titanium dioxide	13463-67-7	0.1-1.0

Ammonia	7664-41-7	0.1-1.0
Formaldehyde	50-00-0	<0.009

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical aid if symptoms persist. If skin irritation persists, call a physician. Remove and wash contaminated clothing. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. If ingested, drink 2 glasses of water. Immediately see a physician. Never give anything by mouth to an unconscious person.

Note to Physician: None.

COMMENTS: If over-exposure occurs, call your local poison control center.

Section 5 - Fire Fighting Measures

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Wash thoroughly after handling.

Storage: Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Close container after each use. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Limestone	1317-65-3	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	No
Branched and linear phthalates	Proprietary	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Stoddard solvent	8052-41-3	100 PPM	N.E.	N.E.	500 PPM	N.E.	N.E.	No
Ethylene glycol	107-21-1	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No

Silica, crystalline	14808-60-7	0.05 MGM3	N.E.	N.E.	10/(%SiO2 + 2) MGM3	N.E.	N.E.	No
Titanium dioxide	13463-67-7	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
Ammonia	7664-41-7	25 PPM	35 PPM	N.E.	50 PPM	N.E.	N.E.	No
Formaldehyde	50-00-0	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No

Exposure Notes:

14808-60-7 The 2002 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

The TLVs for crystalline silica represent the respirable fraction.

OSHA PEL TWA for Quartz is calculated using the following formula: 10 mg/m3/(% SiO2 + 2). Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics.

..... Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

50-00-0 Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.

Precautionary Measures: Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10-hour work shift.

Skin Protection: Rubber gloves. Natural rubber, butyl rubber and polyvinyl chloride gloves are not suitable protection against the phthalates contained within this product; neoprene is recommended.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Heavier Than Air
Odor:	Very Slight Ammonia	**Odor Threshold:**	Not Established
Color:	Colored	**Evaporation Rate:**	Slower Than n-Butyl Acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	1.6
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste	**Flammability:**	Non-Flammable
Flash Point, F:	Greater than 200 degrees Fahrenheit	**Method:**	(Seta Closed Cup)
Lower Explosive Limit, %:	Not Established	**Upper Explosive Limit, %:**	Not Established

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg
7664-41-7	Ammonia	----------	Rat:2000 ppm/4H
50-00-0	Formaldehyde	----------	Rat:203 mg/m3

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA and NTP identify formaldehyde as a potential carcinogen. IARC identifies formaldehyde as a human carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the significance of which to humans is unknown. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits.
Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.
In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): None

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	N.A.

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

Canadian WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class: Not Controlled.

Section 16 - Other Information

HMIS Ratings:

Health: 1	Flammability: 1	Reactivity: 0	Personal Protection: X

Volatile Organic Compounds (VOC), less water less exempts: g/L: 56.0 lb/gal: 0.5 wt:wt%: 2.5

Volatile Organic Compounds (VOC), less water less exempts, less LVP -VOCs: wt:wt%: 0.9

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable	ACGIH – American Conference of Governmental Industrial Hygienists
N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit	STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	MSDS – Material Safety Data Sheet
C – Degree Celsius	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	1
WL30067	15-MAY-08	Flammability	0
		Reactivity	0

PRODUCT NAME
WHITE LIGHTNING® 3006™ Original Formula All Purpose Adhesive Caulk, Clear

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS CO.
Consumer Group - Industrial
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)
(800) 424-9300

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE

No ingredients in this product are hazardous as defined by the Department of Labor.

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
In a confined area vapors in high concentration may cause headache, nausea or dizziness.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Continued on page 2

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Not Applicable	N.A.	N.A.

FLAMMABILITY CLASSIFICATION
Not Applicable
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY
Not Applicable
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Continued on page 3

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.77 lb/gal	1050 g/l
SPECIFIC GRAVITY	1.06	
BOILING POINT	212 - 213 F	100 - 100 C
MELTING POINT	Not Available	
VOLATILE VOLUME	51 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	8.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

0.26 lb/gal	31 g/l	Less Water and Federally Exempt Solvents
0.13 lb/gal	15 g/l	Emitted VOC

Continued on page 4

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

CAS No.	Ingredient Name

No LC50 or LD50 data available.

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
Not Regulated for Transportation.

Canada (TDG)
Not Regulated for Transportation.

IMO
Not Regulated for Transportation.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

Continued on page 5

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

WL01010
05 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
WL01010	19-JUN-08	Flammability	0
		Reactivity	0

PRODUCT NAME
WHITE LIGHTNING® 3006™ Original Formula All Purpose Adhesive Caulk, Almond

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS CO.
Consumer Group - Industrial
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
1	64742-88-7	Mineral Spirits				
			ACGIH	TLV 100	ppm	2 mm
			OSHA	PEL 100	ppm	
59	471-34-1	Calcium Carbonate				
			ACGIH	TLV 10	mg/m3 as Dust	
			OSHA	PEL 15	mg/m3 Total Dust	
			OSHA	PEL 5	mg/m3 Respirable Fraction	
0.8	13463-67-7	Titanium Dioxide				
			ACGIH	TLV 10	mg/m3 as Dust	
			OSHA	PEL 10	mg/m3 Total Dust	
			OSHA	PEL 5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
In a confined area vapors in high concentration may cause headache, nausea or dizziness.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

Continued on page 2

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Not Applicable	N.A.	N.A.

FLAMMABILITY CLASSIFICATION

Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

Continued on page 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	13.70 lb/gal 1641 g/l
SPECIFIC GRAVITY	1.65
BOILING POINT	212 - 395 F 100 - 201 C
MELTING POINT	Not Available
VOLATILE VOLUME	27 %
EVAPORATION RATE	Slower than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	8.0

Continued on page 4

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
0.38 lb/gal 46 g/l Less Water and Federally Exempt Solvents
0.29 lb/gal 35 g/l Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

TOXICOLOGY DATA

CAS No.	Ingredient Name				
64742-88-7	Mineral Spirits				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
471-34-1	Calcium Carbonate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 5

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
Not Regulated for Transportation.

Canada (TDG)
Not Regulated for Transportation.

IMO
Not Regulated for Transportation.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

21212
08 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
21212	29-SEP-07	Flammability	4
		Reactivity	0

PRODUCT NAME
NOW® Spray Paint, Gloss White

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
ILLINOIS BRONZE Products Group
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 832-2541
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)
(800) 424-9300

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
18	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
17	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
5	64742-89-8	Lt. Aliphatic Hydrocarbon Solvent				
			ACGIH TLV	100	ppm	53 mm
			OSHA PEL	100	ppm	
4	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
17	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
25	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
5	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

Continued on page 4

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	5.99 lb/gal 717 g/l
SPECIFIC GRAVITY	0.72
BOILING POINT	<0 - 325 F <-18 - 162 C
MELTING POINT	Not Available
VOLATILE VOLUME	94 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	7.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 63.05% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	Lt. Aliphatic Hydrocarbon Solvent				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	V. M. & P. Naphtha				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO

May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Continued on page 6

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	17	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Material Safety Data Sheet

Section 1 General Information

Manufacturer:
Zinsser Company, Inc.
173 Belmont Drive
Somerset, NJ 08875
(732) 469-8100

Emergency Telephone: Chemtrec (800) 424-9300 Date: December 1, 2006

Product Name: Cover Stain Spray

Codes: 03608 03610 03615 03616 03620 03624 03640

Section 2 Hazardous Ingredients

Hazardous Component	CAS#	OSHA PEL	ACGIH TLV
Acetone	67-64-1	1000 ppm	500 ppm
Aliphatic Petroleum Distillates	64742-89-8	500 ppm	N/E
Kaolin	1332-58-7	15 mg/m^3 (5 mg/m^3 *)	2 mg/m^3*
Limestone	1317-65-3	15 mg/m^3 (5 mg/m^3 *)	10 mg/m^3 (3 mg/m^3 *)
Propane	74-98-6	1000 ppm	1000 ppm
Talc	14807-96-6	20 mppcf	10 mg/m^3 (3 mg/m^3)
Titanium dioxide	13463-67-7	15 mg/m^3	10 mg/m^3
VM&P Naphtha	8032-32-4	500 ppm	300 ppm

* Respirable Dust Fraction

Section 3 Hazard Identification

Emergency Overview: This material is an aerosol spray coating used as a primer/sealer. The aerosol container is pressurized and extremely flammable. As packaged, this material has a flashpoint of less than 32° F.

Primary Routes of Exposure:

Inhalation
Skin Contact
Eye Contact

Potential Acute Health Effects:

Eye: May cause eye irritation.

Skin: Prolonged contact may cause skin irritation.

Ingestion: Although ingestion is not anticipated route of exposure, this material can be harmful if swallowed. It may cause depression of the central nervous system, nausea, and vomiting.

Inhalation: May cause headache, drowsiness, dizziness, nausea, and respiratory tract irritation.

Potential Chronic Health Effects: None known.

(See also Sections 4, 8, and 11 for related information)

Section 4 First Aid Measures

Eye contact: Flush eyes with water for 15 minutes.

Skin contact: Wash affected area with soap and water.

Ingestion: Call a physician or poison control center.

Inhalation: Remove person to fresh air. Contact physician or poison control center if symptoms persist.

Section 5 Fire Fighting Measures

Flash Point (method)**:** < 32° F (< 0° C)

Extinguishing Media: Foam, CO_2, dry chemical, water fog.

Protection of Firefighters: As in any fire, wear NIOSH approved self-contained breathing apparatus in pressure-demand mode and full protective gear.

Fire and Explosion Hazards: Contents under pressure. Containers can build up pressure if exposed to heat (fire).

Section 6 Accidental Release Measures

Personal Precautions: Use with adequate ventilation. Avoid breathing vapors. Avoid contact with eyes and skin. Do not eat, drink or smoke in areas of use or storage.

Clean Up Methods: Dispose of in accordance with federal, state, local, regulations.

(See also Section 8 for information on Exposure Controls and Personal Protective Equipment)

Section 7 Handling and Storage

Handling: Keep away from heat, spark, and flame. Keep operating temperatures below ignition temperatures at all times. Use only in a well-ventilated area.

Storage: Store at ambient or lower temperature. Keep containers tightly closed and upright when not in use. Protect against physical damage. Contents under pressure. Do not expose to heat.

Section 8 Exposure Controls / Personal Protection

Engineering Controls: Local exhaust ventilation may be necessary to control vapors within applicable exposure limits.

Personal Protective Equipment (PPE):

Eye Protection: Wear safety glasses, splash goggles, or full face shield to prevent eye contact.

Skin Protection: Wear rubber gloves to prevent skin contact.

Respiratory Protection: Use NIOSH approved respirator with organic vapor cartridges if vapor levels exceed allowable workplace exposure limits.

General Hygiene Practices: Wash thoroughly after handling. Prevent Eye contact. Avoid prolonged skin or inhalation contact.

Section 9 Physical Data

Appearance:	White aerosol mist.	**Odor:**	Hydrocarbon type odor.
Physical State:	Spray mist	**pH:**	N/A
Boiling Point:	N/D	**Melting Point:**	N/D
Vapor Pressure:	N/D	**Vapor Density:**	Greater than air
Odor Threshold:	N/D	**Viscosity:**	N/D
Solubility in Water:	N/D	**Specific Gravity** (water = 1)**:**	0.9

Section 10 Stability and Reactivity

Stability: Stable, non-reactive.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: None known.

Conditions to Avoid: Heat, sparks, and open flames.

Section 11 Toxicological Information

Carcinocenicity: This material is not considered a carcinogen by IARC or NTP and is not regulated as a carcinogen by OSHA.

(See also Section 15 for related information)

Section 12 Ecological Information

Chemical Fate and Effects: No data available.

Section 13 Disposal Considerations

RCRA Hazardous Waste: This material, when discarded or disposed of, could be a hazardous waste according to federal regulations (40 CFR 261) due to the characteristic of ignitability (D001). The transportation, storage, treatment, and disposal of this waste must be conducted in compliance with 40 CFR 262, 263, 264, 268, and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate.

Section 14 Transportation Information

Regulated by the DOT: Yes

DOT Proper Shipping Name: Paint

UN / NA Number: UN 1950

Section 15 Regulatory Information

CERCLA:

The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

SARA Title III, section 311/312:
The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

SARA Title III, section 313:
The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

TSCA:

The components of this mixture are listed in the Toxic Substance Control Act Inventory of Chemical Substances.

This product contains the following chemicals which require export notification under section 12(b) of the TSCA regulation:

Chemical Name	CAS#	TSCA Section
Acetone	67-64-1	Sec. 4
Methyl ethyl ketoxime	96-29-7	Sec. 4

Section 16 Other Information

Legend: **N/A**: Not Applicable
N/D: Not Determined
N/E: Not Established
N/R: Not Required
STEL: Short Term Exposure Limit
C: OSHA Ceiling Value
cps: Centipoise
mg/m^3: milligrams per cubic meter
mppcf: million particles per cubic foot of air.
PPM: Parts Per Million
PPB: Parts Per Billion
PEL: Permissible Exposure Limit
TLV: Threshold Limit Value
TWA: Time Weighted Average
ACGIH: American Conference of Governmental Industrial Hygienists

CPSC: Consumer Product Safety Commission
DOT: US Department of Transportation
FHSA: Federal Hazardous Substance Act
OSHA: Occupational Safety and Health Administration (US Dept. of Labor)
RCRA: Resource Conservation and Recovery Act
SARA: Superfund Amendment and Reauthorization Act
Skin: This substance has the potential to be absorbed systemically through the skin.
TSCA: Toxic Substance Control Act

Prepared By: Zinsser Health and Safety Manager, Regulatory Compliance Dept.
173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

Disclaimer: Zinsser Company, Inc. believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

Material Safety Data Sheet

Section 1 General Information

Manufacturer:
Zinsser Company, Inc.
173 Belmont Drive
Somerset, NJ 08875
(732) 469-8100

Emergency Telephone: Chemtrec (800) 424-9300 **Date: February 5, 2007**

Product Name: Zinsser Magic Strip

Codes: 42072 42074

Section 2 Hazardous Ingredients

Hazardous Component	CAS#	OSHA PEL	ACGIH TLV
Clay	1332-58-7	2mg/m^3	10mg/m^3
Talc	14807-96-6	2mg/m^3	2mg/cm
Quartz	14808-60-7	5 mg/m^3	10 mg/m^3
N-Methyl-2-Pyrrolidone	872-50-4	NE	NE

Section 3 Hazard Identification

Emergency Overview: This material may cause eye, skin, nose, and throat irritation and may be harmful if inhaled. This material is a paint stripper. It is a green colored liquid with a mild amine type odor and flash pint greater than 200° F.

Primary Routes of Exposure:

Skin Contact
Eye Contact
Inhalation

Potential Acute Health Effects:

Eye: May cause eye irritation. Direct contact with the liquid or exposure to vapors or mists may cause stinging, tearing, redness, swelling, and eye damage.

Skin: May cause skin irritation. Prolonged or repeated contact may cause skin to become reddened, rough and dry due to the removal of natural oils and may result in dermatitis. May be harmful if absorbed through the skin.

Ingestion: This material may be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: Do not breathe vapor or spray mist Inhalation may cause respiratory tract irritation. Breathing high concentrations of vapors or mists may affect the brain or central nervous system causing dizziness, headaches, nausea, and drowsiness. Respiratory symptoms associated with preexisting lung disorders (e.g. asthma-like conditions) may be aggravated by exposure to this material.

Potential Chronic Health Effects:

Signs and Symptoms: Prolonged or repeated skin contact may cause dermatitis. Persons with pre-existing skin disorders or impaired liver, kidney, and pulmonary function may be more susceptible to the effects of this material.

(See also Sections 4, 8, and 11for related information)

Section 4 First Aid Measures

Eye contact: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact: In case of skin contact, wash thoroughly with soap and water for at least 15 minutes. Get medical attention immediately. Remove contaminated clothing and shoes.

Ingestion: If swallowed, contact a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by medical personnel. May cause irritation of the gastrointestinal tract with vomiting.

Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

Section 5 Fire Fighting Measures

Flash Point (method)**:** N/D (estimated greater than 200° F)

Extinguishing Media: Water, CO_2, foam, dry chemical or water supply.

Protection of Firefighters: As in any fire, wear self-contained breathing apparatus in pressure demand mode and full protective gear.

Unusual Fire and Explosion Hazards: None known.

Section 6 Accidental Release Measures

Clean Up Methods: Keep unnecessary people away. Dike and contain spill with inert material (sand, earth, etc.). Transfer liquid to containers for recovery or disposal, or absorb with absorbent materials and place into containers for disposal. Keep spill out of sewer and open bodies of water. Prevent runoff to sewers, streams or other bodies of water. Floors may be slippery; care should be exercised to avoid falls during clean up operations.

Spillage: If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Clean up rags, papers and waste promptly. Allow solvent to evaporate then dispose of in metal container. Call your local sanitation department for aid in disposing of unwanted product in your area or call the Environmental Protection Agency Solvent and Hazardous Waste Hotline at 1-800-424-9345. Do not dump on the ground or in local sewer of discharge system.

(See also Section 8 for information on Exposure Controls and Personal Protective Equipment and Section 13 for Disposal information.)

Section 7 Handling and Storage

Handling: Open containers carefully and close after each use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist. Wash thoroughly after handling. Wash clothing before reuse. Thoroughly clean contaminated shoes. Do not use pressure to empty containers. Containers, even those that have been emptied; will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Use this product outdoors, if possible. If you must use it indoors, open all windows and doors or use other means to ensure fresh air movement during application and drying. Ensure fresh air entry during application and drying. Prevent the build-up of vapors by opening windows and doors to achieve cross-ventilation.

Storage: Store in a cool, dry, well-ventilated place away from incompatible materials. Keep containers tightly closed when not in use. Vapors of this product are heavier than air and will collect in low places, such as pits or degreasers or other poorly ventilated areas. Do not enter places where vapors are suspected unless special respirator protection is worn and an observer is present. Do not store near oxidizers, strong acids or bases. KEEP OUT OF REACH OF CHILDREN.

(See also Section 8 for information on Exposure Controls and Personal Protective Equipment)

Section 8 Exposure Controls / Personal Protection

Engineering Controls: Use in well-ventilated are and ensure good cross ventilation during use and while drying. If necessary, use mechanical local exhaust ventilation or general room dilution ventilation to reduce vapor concentrations.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE,

ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Personal Protective Equipment (PPE)

Eye Protection: Do not get in eyes. Wear chemical splash goggles or similar eye protection if the potential exists for eye contact

Skin Protection: Prevent skin contact. It is recommended that PVA, rubber or other impermeable, chemically resistant gloves be worn to prevent skin contact. Depending on conditions of use additional protective equipment may be necessary such as face-shield, apron or coveralls.

Respiratory Protection: If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels exceed applicable occupational exposure limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. For emergency or non-routine operations involving high vapor concentrations (such as enclosed areas) supplied air breathing apparatus (such as an airline respirator or SCBA) may be required.

Protective Clothing: Wear chemical-resistant gloves, boots, and aprons to prevent skin contact.

General Hygiene Practices: Wash after handling material. Prevent eye and skin contact. Wash thoroughly before handling food, cosmetics, or before smoking.

Section 9 Physical Data

Appearance: Green

Odor: Mild amine type

Physical State: liquid

pH: N/A

Boiling Point: 212^{o}F

Melting Point: N/A

Vapor Pressure: 0.2 mmHg @ 20°C

Vapor Density: Heavier than air.

Viscosity: N/D

Solubility in Water: Miscible

Specific Gravity (water = 1)**:** 1.31

Section 10 Stability and Reactivity

Stability: Stable

Hazardous Polymerization: N/A

Hazardous Decomposition Products: CO_2, CO, release when heated.

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

Incompatibility: Avoid contact with oxidizing agents, strong acids or bases.

Section 11 Toxicological Information

Carcinogenicity: Ingredients listed below are present at or greater than 0.1% and are classified by either IARC, NTP, or OSHA as carcinogenic:

Ingredient	CAS #	IARTC	NTP	OSHA
Quartz	14808-60-7	Yes	Yes	No

Target Organs Effected: Animal tests indicate that N-Methyl-2-Pyrrolidone may cause toxic effects upon human reproduction.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Section 12 Ecological Information

Chemical Fate and Effects: None known.

Section 13 Disposal Considerations

Recommended Waste Disposal Method: This material, when discarded or disposed of, could be a hazardous waste according to federal regulations (40 CFR 261) due to the characteristic of ignitability (D001). The transportation, storage, treatment, and disposal of this waste must be conducted in compliance with 40 CFR 262, 263, 264, 268, and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate

Section 14 Transportation Information

Regulated by the DOT: No

DOT Proper Shipping Name: Not Applicable

UN / NA Number: Not Applicable

DOT Hazard Class: Not Applicable

DOT Packing Group: Not Applicable

Section 15 Regulatory Information

CERCLA:
The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

SARA Title III, section 311/312:
The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

SARA Title III, section 313:
The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
N-Methyl-2-Pyrrolidone	872-50-4	9 %

TSCA:

The components of this mixture are listed in the Toxic Substance Control Act Inventory of Chemical Substances.

This product does not contain any chemicals that require export notification under Section 12(b) of the TSCA regulation.

Section 16 Other Information

Legend: **N/A**: Not Applicable
N/E: Not Established
cps: Centipoise
STEL: Short Term Exposure Limit
PPM: Parts Per Million
N/D: Not Determined
N/R: Not Required
KU: Krebs Units
C: OSHA Ceiling Value
PPB: Parts Per Billion

PEL: Permissible Exposure Limit **TLV**: Threshold Limit Value
TWA: Time Weighted Average **mg/m^3**: Milligrams per cubic Meter
mppcf: Million particles per cubic foot of air.
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration (US Dept. of Labor)
RCRA: Resource Conservation and recovery Act
SARA: Superfund Amendment and Reauthorization Act
TSCA: Toxic Substance Control Act
FHSA: Federal Hazardous Substance Act

Prepared By: Zinsser Health and Safety Manager, Regulatory Compliance Dept.
173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

Disclaimer: Zinsser Co., Inc. believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

Material Safety Data Sheet

Section 1 General Information

Manufacturer:
Zinsser Company, Inc.
173 Belmont Drive
Somerset, NJ 08875
(732) 469-8100

Emergency Telephone: Chemtrec (800) 424-9300 **Date: December 1, 2006**

Product Name: **Bulls Eye Odorless Primer Sealer**

Codes: 03900 03901 03904 03955

Section 2 Hazardous Ingredients

Hazardous Component	CAS#	OSHA PEL	ACGIH TLV
Isoparaffin	64742-48-9	500 ppm	N/E
Limestone	1317-65-3	15 mg/m^3 * (5 mg/m^3)**	10 mg/m^3 *
Quartz	14808-60-7	0.1 mg/m^3 **	0.1 mg/m^3 **
Titanium Dioxide	1317-80-2	15 mg/m^3 *	10 mg/m^3 *

* Total Dust ** Respirable Dust Fraction as petroleum distillate

Section 3 Hazard Identification

Emergency Overview: This material is a solvent-based primer-sealer used to coat wood and other surfaces before painting. This material is a white flowable liquid with a flash point of 106° F.

Primary Potential Routes of Exposure:

Inhalation
Skin Contact
Eye Contact

Potential Acute Health Effects:

Eye: May cause eye irritation.

Skin: Frequent or prolonged contact may cause irritation or dermatitis.

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Ingestion: Although not considered a significant route of exposure, ingestion may cause gastrointestinal irritation if ingested.

Inhalation: Inhalation of vapors may cause respiratory tract irritation.

Potential Chronic Health Effects: None known.

(See also Sections 4, 8, and 11for related information)

Section 4 First Aid Measures

Eye contact: Flush eyes with water for 15 minutes. Get medical attention.

Skin contact: Wash with soap and water. If irritation persists, get medical attention.

Ingestion: If swallowed, do not induce vomiting. Call a physician or poison control center immediately.

Inhalation: If exposed to excessive levels of vapor, remove person to fresh air. Seek medical attention if cough or other symptoms develop.

Section 5 Fire Fighting Measures

Flash Point [method]: 106° F (41° C) [Pensky-Martin Closed Cup]

Flammable Limits in Air: Lower (LEL): 1.2 (estimated based on the petroleum solvent).
Upper (UEL): 9.6 (estimated based on the petroleum solvent).

Extinguishing Media: Water, All purpose dry chemical (ABC), CO_2, or foam.

Protection of Firefighters: As in any fire, wear self-contained breathing apparatus in pressure demand mode and full protective gear.

Section 6 Accidental Release Measures

Clean Up Methods: Eliminate all ignition sources. Keep unnecessary people away. Dike and contain spill with inert material (sand, earth, etc.). Transfer liquid to containers for recovery or disposal, or absorb with absorbent materials and place into containers for disposal. Keep spill out of sewer and open bodies of water. Floors may be slippery; care should be exercised to avoid falls during clean up operations.

(See also Section 8 for information on Exposure Controls and Personal Protective Equipment)

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Section 7 Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing.

Storage: Store in a cool dry place away from excessive heat or open flame. Do not store near oxidizers.

Section 8 Exposure Controls / Personal Protection

Engineering Controls: Use in well-ventilated areas. If necessary, use mechanical local exhaust ventilation or general room dilution ventilation to reduce vapor concentrations.

Personal Protective Equipment (PPE):

Eye Protection: Prevent eye contact. Wear chemical splash goggles or similar eye protection if the potential exists for eye contact.

Skin Protection: Avoid unnecessary skin contact. It is recommended that rubber gloves be worn to prevent skin contact. Depending on conditions of use additional protective equipment may be necessary such as face-shield, apron or coveralls.

Respiratory Protection: None required for normally expected use conditions. If exposure limits are exceeded or if irritation is experienced, appropriate NIOSH approved respiratory protection with organic vapor cartridges should be worn.

General Hygiene Practices: Wash after handling material. Prevent Eye contact. Avoid prolonged skin and inhalation contact. Wash thoroughly before handling food, cosmetics, or before smoking.

Section 9 Physical Data

Appearance:	White, flowable liquid	**Odor**:	Slight hydrocarbon solvent odor
Physical State:	Liquid	**pH**:	N/A (solvent based system)
Boiling Point:	~325° F	**Melting Point**:	N/A
Vapor Pressure:	10 mm Hg @ 100°F	**Vapor Density*** (Air =1):	5.14 @ 1 Atm.
Odor Threshold:	N/D	**Viscosity**:	85 – 90 KU @ 74°F
Solubility in Water:	Little to none.	**Density**:	12.1 lbs/gal
VOC Content:	≤ 450 g/l	* Based on solvent.	

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

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Section 10 Stability and Reactivity

Stability: This material is stable.

Hazardous Polymerization: Not expected or known to occur.

Hazardous Decomposition Products: None known.

Conditions to Avoid: Keep away from heat and open flames.

Incompatibility: Strong oxidizing agents.

Section 11 Toxicological Information

Carcinogenicity: The following ingredients are present at greater than 0.1% and are classified by IARC, NTP, or OSHA as carcinogenic:

Ingredient	CAS #	IARTC	NTP	OSHA
quartz	14808-60-7	Yes	Yes	No

(See also Section 15 for related information)

Section 12 Ecological Information

Chemical Fate and Effects: No data available.

Section 13 Disposal Considerations

RCRA Hazardous Waste: This material, when discarded or disposed of, could be a hazardous waste according to federal regulations (40 CFR 261) due to the characteristic of ignitability (D001). The transportation, storage, treatment, and disposal of this waste must be conducted in compliance with 40 CFR 262, 263, 264, 268, and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate.

Section 14 Transportation Information

Regulated by the US DOT: No (Combustible liquid)

DOT Proper Shipping Name: Paint

UN / NA Number: UN 1263

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Section 15 Regulatory Information

CERCLA:
The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

SARA Title III, section 311/312:
The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

SARA Title III, section 313:
The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS#	Maximum Concentration (Wt. %)
None	N/A	N/A

TSCA: All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory

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Section 16 Other Information

Legend: **N/A**: Not Applicable
N/D: Not Determined
N/E: Not Established
N/R: Not Required
STEL: Short Term Exposure Limit
C: OSHA Ceiling Value
PPM: Parts Per Million
PPB: Parts Per Billion
PEL: Permissible Exposure Limit
TLV: Threshold Limit Value
TWA: Time Weighted Average
mg/m^3: Milligrams per cubic Meter
mppcf: Million particles per cubic foot of air.
ACGIH: American Conference of Governmental Industrial Hygienists
DOT: United States Department of Transportation
OSHA: Occupational Safety and Health Administration (US Dept. of Labor)
RCRA: Resource Conservation and recovery Act
SARA: Superfund Amendment and Reauthorization Act
TSCA: Toxic Substance Control Act
FHSA: Federal Hazardous Substance Act

Prepared By: Zinsser Health and Safety Manager, Regulatory Compliance Dept.
173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

Disclaimer: Zinsser Company, Inc. believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

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Masterchem Industries LLC

View MSDS : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**KILZ® Original Aerosol**
MSDS Manufacturer Number:	1024
Manufacturer Name:	Masterchem Industries LLC
Address:	3135 Old Highway M Imperial, MO 63052-2834
General Phone Number:	(636) 942-2510
General Fax Number:	(636) 942-3663
Customer Service Phone Number:	(800) 325-3552
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec:	In Canada, call CANUTEC: (613) 996-6666 (call collect)
MSDS Creation Date:	06/26/2006
MSDS Revision Date:	05/09/2007

NFPA

3
1 0
NA

HMIS

Health Hazard	1
Fire Hazard	3
REACTIVITY	0
Personal Protection	x

* Chronic Health Effects:

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Silicate, mica	12001-26-2	10 - 30 by Weight
Rutile	1317-80-2	5 - 10 by Weight
Octanes, all isomers	No data	5 - 10 by Weight
Octanes, all isomers	Mixture	5-10 by Weight
Non-hazardous ingredients	N/A	1 - 5 by Weight
1-Nitropropane	108-03-2	1-5 by Weight
Non-hazardous ingredients		10-30 by Weight
Acetone	67-64-1	10-30 by Weight
Titanium dioxide	13463-67-7	10 - 30 by Weight
Carbonic acid calcium salt	471-34-1	10 - 30 by Weight
Propane	74-98-6	10-30 by Weight
Isobutane	75-28-5	10-30 by Weight
VM&P Naphtha/Aliphatic Hydrocarbon	8032-32-4	10 - 30 by Weight
Nonane, all isomers	Mixture	10-30 by Weight

Nonanes	No data	10 - 30 by Weight
Talc, Magnesium silicate hydrate	14807-96-6	1 - 5 by Weight
Xylene	1330-20-7	0.1 - 1 by Weight
Palygorskite	12174-11-7	0.1 - 1 by Weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:	Flammable. Irritant.
Potential Health Effects:	
Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion:	Harmful if swallowed. Ingestion can cause nausea, vomiting, diarrhea and gastrointestinal irritation.
Chronic Health Effects:	Prolonged or repeated contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis (rash). Repeated or prolonged inhalation may cause toxic effects.
Signs/Symptoms:	Overexposure can cause headaches, dizziness, nausea, and vomiting.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system. Central nervous system. Kidney.
Aggravation of Pre-Existing Conditions:	May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:	Flammable liquid.
Flash Point:	<32°F (<0°C)
Flash Point Method:	
Lower Flammable/Explosive Limit:	1%
Upper Flammable/Explosive Limit:	7%
Fire Fighting Instructions:	Flammable. Cool fire-exposed containers using water spray.
Extinguishing Media:	Use alcohol foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
Protective Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back.

NFPA Ratings:

NFPA Flammability:	3
NFPA Health:	1
NFPA Reactivity:	0
NFPA Other:	NA

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures:	Remove all sources of ignition. Absorb spill with inert material (e.g., dry sand o earth), then place in a chemical waste container. Provide ventilation. Collect spi with a non-sparking tool. Place into a suitable container for disposal.
Personnel Precautions:	Use proper personal protective equipment as listed in section 8.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, ski and clothing. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustibl materials, and incompatible substances. Keep container tightly closed when not in use.
Work Practices:	To reduce potential for static discharge, bond and ground containers when transferring material.
Special Handling Procedures:	Do not reuse containers without proper cleaning or reconditioning.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhalin vapor or mist.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA o other recognized standards. Consult with local procedures for selection, training inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apror or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirato if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EXPOSURE GUIDELINES

Silicate, mica :

Guideline ACGIH:	TLV-TWA: 3 mg/m3 (Respirable)
Guideline OSHA:	OSHA-TWA: 20 mg/m3

1-Nitropropane :

Guideline ACGIH:	TLV-TWA: 25 ppm
Guideline OSHA:	OSHA-TWA: ppm

Acetone :

Guideline ACGIH:	TLV-TWA: 500 ppm TLV-STEL: 750 ppm
Guideline OSHA:	OSHA-TWA: 1000 ppm

Titanium dioxide :

Guideline ACGIH:	TLV-TWA: 10 mg/m3
Guideline OSHA:	OSHA-TWA: 15 mg/m3

Carbonic acid calcium salt :

Guideline ACGIH:	TLV-TWA: 5 mg/m3 (Respirable)
Guideline OSHA:	OSHA-TWA: 5 mg/m3 Respirable

Propane :

Guideline ACGIH:	TLV-TWA: 1000 ppm
Guideline OSHA:	OSHA-TWA: 1000 ppm

Isobutane :

Guideline ACGIH:	TLV-TWA: 1000 ppm

VM&P Naphtha / Aliphatic Hydrocarbon :

Guideline ACGIH:	TLV-TWA: 300 ppm

Talc, Magnesium silicate hydrate :

Guideline ACGIH:	TLV-TWA: 2 mg/m3 (Respirable)
Guideline OSHA:	OSHA-TWA: 20 mg/m3

Xylene :

Guideline ACGIH:	TLV-TWA: 100 ppm TLV-STEL: 150 ppm
Guideline OSHA:	OSHA-TWA: 100 ppm

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Liquid
Boiling Point:	No Data
Melting Point:	No Data
Density:	10 - 12 Lbs./gal.
Vapor Density:	Greater than 1 (Air = 1)
pH:	No Data
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	<32°F (<0°C)
Flash Point Method:	

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Heat, flames, ignition sources, and sparks. Incompatible materials. Freezing or temperatures below 32 deg. F.
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS Number:	VV8760000
RTECS Number:	VM2940000
Acetone :	
Eye:	Eye - Rabbit; Standard Draize Test : 10 uL - mild (RTECS)
Skin:	Skin - Guinea pig; LD50: >9400 uL/kg - Details of toxic effects not reported other than lethal dose value. (RTECS)
Inhalation:	Inhalation - Rat LC50: 50100 mg/m3/8H - [Details of toxic effects not reported other than lethal dose value Inhalation - Mouse LC50: 44 gm/m3/4H - Details of toxic effects not reported other than lethal dose value. (RTECS)
Ingestion:	Ingestion - Rat LD50: 5800 mg/kg - Behavioral - altered sleep time (including change in righting reflex) Behavioral - tremor Ingestion - Mouse LD50: 3 gm/kg - [Details of toxic effects not reported other than lethal dose value. (RTECS)
Titanium dioxide :	
RTECS Number:	XR2275000
Skin:	Skin - Rabbit; Standard Draize Test : 300 ug/3D; (Intermittent) mild. (RTECS)
Ingestion:	Ingestion - Rat TDLo: 60 gm/kg; Gastrointestinal - hypermotility, diarrhea Gastrointestinal - other changes. (RTECS)
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans
RTECS Number:	FF9335000
Isobutane :	
Inhalation:	Inhalation - Rat LC50: 570,000 ppm/15M - [Behavioral - tremor Behavioral - convulsions or effect on seizure threshold Lungs, Thorax, or Respiration - respiratory depression] (RTECS)
VM&P Naphtha / Aliphatic Hydrocarbon :	
RTECS Number:	OI6180000
Eye:	Eye's - Human: 880 ppm/15M; No effects reported. (RTECS)
Talc, Magnesium silicate hydrate :	
RTECS Number:	WW2710000
Carcinogenicity:	IARC: Group 3: Unclassifiable as to carcinogenicity to humans
Xylene :	
RTECS Number:	ZE2100000
Eye:	Eye - Rabbit; Standard Draize Test : 87 mg; mild. Eye - Rabbit; Standard Draize Test : 5 mg/24H; severe. (RTECS)
Skin:	Skin - Rabbit; Standard Draize Test : 100%; Moderate. Skin - Rabbit; Standard Draize Test : 500 mg/24H; Moderate. (RTECS)
Inhalation:	Inhalation - Rat LC50: 5000 ppm/4H; Details of toxic effects not reported other than lethal dose value (RTECS)
Ingestion:	Ingestion - Rat LD50: 4300 mg/kg; Liver - other changes Kidney, Ureter, Bladder - other changes Ingestion - Mouse LD50: 2119 mg/kg; Details of toxic effects not reported othe than lethal dose value (RTECS)
Carcinogenicity:	IARC: Group 3: Unclassifiable as to carcinogenicity to humans
Palygorskite :	
RTECS Number:	RT6400000
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
Important Disposal Information:	DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container. Do not store unused product inside the home. For disposal guidance, contact your household refuse collectior service, fire department, county or state government environmental control agency.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Aerosol flammable
DOT Hazard Class:	2.1
DOT Packing Group:	III

SECTION 15 - REGULATORY INFORMATION

Silicate, mica :	
TSCA Inventory Status:	Not listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed
Rutile :	
TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed
1-Nitropropane :	
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List..
Canada DSL:	Listed
Non-hazardous ingredients :	
TSCA Inventory Status:	Contains calcium carbonate (CAS:1317-65-3), which is listed in the TSCA inventory.
Acetone :	
TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed
Titanium dioxide :	
TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed
Carbonic acid calcium salt :	
Canada DSL:	Listed
Propane :	
TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List. Listed in the New Jersey State Right to Know List.

Canada DSL:	Listed
Isobutane :	
TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List. Listed in the New Jersey State Right to Know List..
Canada DSL:	Listed
VM&P Naphtha / Aliphatic Hydrocarbon :	
TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed
Talc, Magnesium silicate hydrate :	
TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed
Xylene :	
TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed
Palygorskite :	
TSCA Inventory Status:	Not listed
Canada DSL:	Not listed

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard:	3
HMIS Health Hazard:	1
HMIS Reactivity:	0
HMIS Personal Protection:	x
MSDS Creation Date:	06/26/2006
MSDS Revision Date:	05/09/2007
MSDS Revision Notes:	Quarterly and format update
MSDS Author:	Actio Corporation
Disclaimer:	This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point ou that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.
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Masterchem Industries LLC

View MSDS : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**KILZ® Upshot**
MSDS Manufacturer Number:	10007
Manufacturer Name:	Masterchem Industries LLC
Address:	3135 Old Highway M Imperial, MO 63052-2834
General Phone Number:	(636) 942-2510
General Fax Number:	(636) 942-3663
Customer Service Phone Number:	(800) 325-3552
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec:	In Canada, call CANUTEC: (613) 996-6666 (call collect)
MSDS Creation Date:	07/15/2006
MSDS Revision Date:	05/09/2007

NFPA

3
1 0
NA

HMIS

Health Hazard	1
Fire Hazard	3
REACTIVITY	0
Personal Protection	x

* Chronic Health Effects:

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Silicate, mica	12001-26-2	10 - 30 by Weight
Limestone (calcium carbonate)	1317-65-3	1-10 by Weight
Rutile	1317-80-2	5 - 10 by Weight
Octanes, all isomers	No data	5 - 10 by Weight
Nonanes	Mixture	1-10 by Weight
Non-hazardous ingredients	N/A	1 - 5 by Weight
Octanes, all isomers	Mixture	1-5 by Weight
1-Nitropropane	108-03-2	1-5 by Weight
Acetone	67-64-1	10-30 by Weight
Titanium dioxide	13463-67-7	10 - 30 by Weight
Carbonic acid calcium salt	471-34-1	10 - 30 by Weight
Propane	74-98-6	10-30 by Weight
Isobutane	75-28-5	10-30 by Weight
VM&P Naphtha/Aliphatic Hydrocarbon	8032-32-4	10 - 30 by Weight

Nonanes	No data	10 - 30 by Weight
Talc, Magnesium silicate hydrate	14807-96-6	1 - 5 by Weight
Talc (powder), containing no asbestos fibers	14807-96-6	1-5 by Weight
Xylene	1330-20-7	0.1 - 1 by Weight
Palygorskite	12174-11-7	0.1 - 1 by Weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:	Flammable aerosol. Irritant. Contents under pressure.
Potential Health Effects:	
Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion:	Harmful if swallowed. Ingestion can cause nausea, vomiting, diarrhea and gastrointestinal irritation.
Chronic Health Effects:	Prolonged or repeated contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis (rash). Repeated or prolonged inhalation may cause toxic effects.
Signs/Symptoms:	Overexposure can cause headaches, dizziness, nausea, and vomiting.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system. Central nervous system. Kidney.
Aggravation of Pre-Existing Conditions:	May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:	Flammable aerosol. Contents are under pressure. Will release flammable vapors at well below ambient temperatures and readily form flammable mixtures with air. It will burn in the open and may be explosive in confined spaces.
Flash Point:	<32°F (0°C)
Flash Point Method:	TOC
Fire Fighting Instructions:	Flammable. Cool fire-exposed containers using water spray.
Extinguishing Media:	Use alcohol foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
Protective Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flo

along surfaces to a distant ignition source and flash back.

NFPA Ratings:

NFPA Flammability:	3
NFPA Health:	1
NFPA Reactivity:	0
NFPA Other:	NA

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures:	Remove all sources of ignition. Absorb spill with inert material (e.g., dry sand o earth), then place in a chemical waste container. Provide ventilation. Collect spi with a non-sparking tool. Place into a suitable container for disposal.
Personnel Precautions:	Use proper personal protective equipment as listed in section 8.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, ski and clothing. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustibl materials, and incompatible substances. Keep container tightly closed when not in use. Do not store in temperatures above 120 °F.
Work Practices:	To reduce potential for static discharge, bond and ground containers when transferring material.
Special Handling Procedures:	Handle with care. Contents are under pressure. Excessive pressure and temperature will cause over pressurization and result in container bursting or exploding.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhalin vapor or mist.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA o other recognized standards. Consult with local procedures for selection, training inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apror or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirato if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EXPOSURE GUIDELINES

Silicate, mica :

Guideline ACGIH:	TLV-TWA: 3 mg/m3 (Respirable)
Guideline OSHA:	OSHA-TWA: 20 mg/m3

1-Nitropropane :

Guideline ACGIH:	TLV-TWA: 25 ppm
Guideline OSHA:	OSHA-TWA: ppm

Acetone :

Guideline ACGIH:	TLV-TWA: 500 ppm TLV-STEL: 750 ppm
Guideline OSHA:	OSHA-TWA: 1000 ppm

Titanium dioxide :

Guideline ACGIH:	TLV-TWA: 10 mg/m3
Guideline OSHA:	OSHA-TWA: 15 mg/m3

Carbonic acid calcium salt :

Guideline ACGIH:	TLV-TWA: 5 mg/m3 (Respirable)
Guideline OSHA:	OSHA-TWA: 5 mg/m3 Respirable

Propane :

Guideline ACGIH:	TLV-TWA: 1000 ppm
Guideline OSHA:	OSHA-TWA: 1000 ppm

Isobutane :

Guideline ACGIH:	TLV-TWA: 1000 ppm

VM&P Naphtha / Aliphatic Hydrocarbon :

Guideline ACGIH:	TLV-TWA: 300 ppm

Talc, Magnesium silicate hydrate :

Guideline ACGIH:	TLV-TWA: 2 mg/m3 (Respirable)
Guideline OSHA:	OSHA-TWA: 20 mg/m3

Talc (powder), containing no asbestos fibers :

Guideline ACGIH:	TLV-TWA: 2 mg/m3 (Respirable)
Guideline OSHA:	OSHA-TWA: 20 mg/m3

Xylene :

Guideline ACGIH:	TLV-TWA: 100 ppm TLV-STEL: 150 ppm
Guideline OSHA:	OSHA-TWA: 100 ppm

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Liquid
Boiling Point:	No Data
Melting Point:	No Data
Density:	10 - 12 Lbs./gal.
Vapor Density:	Greater than 1 (Air = 1)
pH:	No Data
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	<32°F (0°C)
Flash Point Method:	TOC

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Heat, flames, ignition sources, and sparks. Incompatible materials. Freezing or temperatures below 32 deg. F. Temperatures above 120 °F.
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS Number:	VV8760000
RTECS Number:	VM2940000
Acetone :	
Eye:	Eye - Rabbit; Standard Draize Test : 10 uL - mild (RTECS)
Skin:	Skin - Guinea pig; LD50: >9400 uL/kg - Details of toxic effects not reported other than lethal dose value. (RTECS)
Inhalation:	Inhalation - Rat LC50: 50100 mg/m3/8H - [Details of toxic effects not reported other than lethal dose value Inhalation - Mouse LC50: 44 gm/m3/4H - Details of toxic effects not reported other than lethal dose value. (RTECS)
Ingestion:	Ingestion - Rat LD50: 5800 mg/kg - Behavioral - altered sleep time (including change in righting reflex) Behavioral - tremor Ingestion - Mouse LD50: 3 gm/kg - [Details of toxic effects not reported other than lethal dose value. (RTECS)
Titanium dioxide :	
RTECS Number:	XR2275000
Skin:	Skin - Rabbit; Standard Draize Test : 300 ug/3D; (Intermittent) mild. (RTECS)
Ingestion:	Ingestion - Rat TDLo: 60 gm/kg; Gastrointestinal - hypermotility, diarrhea Gastrointestinal - other changes. (RTECS)
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans
RTECS Number:	FF9335000
Isobutane :	
Inhalation:	Inhalation - Rat LC50: 570,000 ppm/15M - [Behavioral - tremor Behavioral - convulsions or effect on seizure threshold Lungs, Thorax, or Respiration - respiratory depression] (RTECS)
VM&P Naphtha / Aliphatic Hydrocarbon :	
RTECS Number:	OI6180000
Eye:	Eye's - Human: 880 ppm/15M; No effects reported. (RTECS)
Talc, Magnesium silicate hydrate :	
RTECS Number:	WW2710000
Carcinogenicity:	IARC: Group 3: Unclassifiable as to carcinogenicity to humans
Talc (powder), containing no asbestos fibers :	
Carcinogenicity:	IARC: Group 3: Unclassifiable as to carcinogenicity to humans
Xylene :	
RTECS Number:	ZE2100000
Eye:	Eye - Rabbit; Standard Draize Test : 87 mg; mild. Eye - Rabbit; Standard Draize Test : 5 mg/24H; severe. (RTECS)
Skin:	Skin - Rabbit; Standard Draize Test : 100%; Moderate. Skin - Rabbit; Standard Draize Test : 500 mg/24H; Moderate. (RTECS)
Inhalation:	Inhalation - Rat LC50: 5000 ppm/4H; Details of toxic effects not reported other than lethal dose value (RTECS)
Ingestion:	Ingestion - Rat LD50: 4300 mg/kg; Liver - other changes Kidney, Ureter, Bladder - other changes Ingestion - Mouse LD50: 2119 mg/kg; Details of toxic effects not reported othe than lethal dose value (RTECS)
Carcinogenicity:	IARC: Group 3: Unclassifiable as to carcinogenicity to humans
Palygorskite :	
RTECS Number:	RT6400000
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
Important Disposal Information:	DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container. Do not store unused product inside the home. For disposal guidance, contact your household refuse collectior service, fire department, county or state government environmental control agency.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Aerosol flammable
DOT Hazard Class:	2.1
DOT Packing Group:	III

SECTION 15 - REGULATORY INFORMATION

Silicate, mica :

TSCA Inventory Status:	Not listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Limestone (calcium carbonate) :

TSCA Inventory Status:	Contains calcium carbonate (CAS:1317-65-3), which is listed in the TSCA inventory.
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List..

Rutile :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

1-Nitropropane :

State Regulations:	Listed in the Pennsylvania State Hazardous Substances List..
Canada DSL:	Listed

Acetone :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Titanium dioxide :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Carbonic acid calcium salt :

Canada DSL:	Listed

Propane :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List. Listed in the New Jersey State Right to Know List.
Canada DSL:	Listed

Isobutane :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List. Listed in the New Jersey State Right to Know List..
Canada DSL:	Listed

VM&P Naphtha / Aliphatic Hydrocarbon :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Talc, Magnesium silicate hydrate :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Talc (powder), containing no asbestos fibers :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Xylene :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Palygorskite :

TSCA Inventory Status:	Not listed
Canada DSL:	Not listed

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard:	3
HMIS Health Hazard:	1
HMIS Reactivity:	0
HMIS Personal Protection:	x
MSDS Creation Date:	07/15/2006
MSDS Revision Date:	05/09/2007
MSDS Revision Notes:	Quarterly and format update
MSDS Author:	Actio Corporation
Disclaimer:	This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all

customers to whom we have directly supplied this substance, but must point ou that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

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FICHE SIGNALÉTIQUE SANTÉ–SÉCURITÉ

DH1606
02 00

Section 1 –– IDENTIFICATION DU PRODUIT ET DE LA SOCIÉTÉ

NUMÉRO DU PRODUIT

DH1606

Santé	2*
Inflammabilité	3
Réactivité	1

NOM DU PRODUIT

DUPLI–COLOR* High Heat with Ceramic, Aluminum

NOM DU FABRICANT

SHERWIN–WILLIAMS CANADA, INC.
DUPLI–COLOR Products Group
Vaughan, ON L4K 4T8

NO. DE TÉLÉPHONE EN CAS D'URGENCE

(216) 566–2917

DATE DE PRÉPARATION

06–JAN–07

NO. DE TÉLÉPHONE ORDINAIRE

(905) 761–9185

Section 2 –– COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

% EN POIDS	CAS No.	INGREDIENT			UNITÉS	PRESSION VAPEUR
14	74–98–6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106–97–8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
2	64742–88–7	Solvant Naphta Aliphatique Moyen				
			ACGIH TLV	100	ppm	2 mm
			OSHA PEL	100	ppm	
8	108–88–3	Toluène				
			ACGIH TLV	50	ppm (Peau)	22 mm
			OSHA PEL	100	ppm (Peau)	
			OSHA PEL	150	ppm (Peau) STEL	
1.0	100–41–4	Éthylbenzène				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
5	1330–20–7	Xylène				
			ACGIH TLV	100	ppm	5.9 mm
			ACGIH TLV	150	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	150	ppm STEL	
26	67–64–1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
12	108–10–1	Méthylisobutylcétone				
			ACGIH TLV	50	ppm	16 mm
			ACGIH TLV	75	ppm STEL	
			OSHA PEL	50	ppm	
			OSHA PEL	75	ppm STEL	

Suite à la page 2

2	763-69-9	3-Éthoxypropionate d'éthyle		
		ACGIH TLV	Pas Disponible	1.11 mm
		OSHA PEL	Pas Disponible	

Section 3 -- IDENTIFICATION DES RISQUES

SOURCES D'EXPOSITION

L'exposition peut se produire par l'INHALATION des vapeurs ou du brouillard de pulvérisation.

La PEAU et les YEUX peuvent entrer en contact avec le produit, les vapeurs ou le brouillard de pulvérisation.

EFFET DE LA SUREXPOSITION

YEUX: Irritation des YEUX.

PEAU: L'exposition prolongée ou répétée risque de provoquer l'irritation des peau.

INHALATION: Irritation des voies respiratoires supérieures.

Peut causer la dépression nerveuse. Une sur-exposition excessive à ce produit peut entrainer la perte de conscience, voire même la mort.

SYMPTÔMES DE SUREXPOSITION

Les maux de tête, l'étourdissement, la nausée et la perte de coordination des mouvements sont tous des symptômes d'exposition excessive aux vapeurs ou à la brume de pulvérisation.

La rougeur et les démangeaisons ou la sensation de brûlure peuvent indiquer une exposition excessive des yeux ou de la peau.

ETAT DE SANTÉ AGGRAVÉ PAR EXPOSITION

En général, aucun exposition n'est reconnue.

CANCÉROGÉNICITÉ

Voir la Section 11.

Section 4 -- PREMIERS SOINS

YEUX: Rincer les yeux à grande eau pendant 15 minutes. Aller voir un médecin.

PEAU: Laver à fond les parties affectées avec de l'eau et du savon. Enlever les habits contaminés et les laver avant de les porter de nouveau.

INHALATION: Si une personne en est affectée, l'aider à sortir des lieux. Rétablir la respiration. Aider la personne á rester calme et au chaud.

INGESTION: N'incitez pas la personne á vomir. Aller voir un médecin immédiatement.

Section 5 -- MESURES EN CAS D'INCENDIE

POINT D'ÉCLAIR	LIE	LSE
Propellant < 0 F	1.0	12.8

MOYENS D'EXTINCTION

Dioxyde de carbone, produit chimique sec, mousse

Suite à la page 3

DANGERS D'INCENDIE OU D'EXPLOSION EXCEPTIONNELS

Les contenants peuvent exploser s'ils sont exposés à une très grande chaleur.

L'application aux surfaces chaudes exige qu'on prenne des précautions spéciales.

En cas d'urgence, une exposition excessive aux produits de décomposition peut constituer un danger pour la santé. Les symptômes peuvent ne pas se manifester immédiatement. Voir le médecin.

MESURES PARTICULIÉRES DI PROTECTION CONTRE L'INCENDIE

On doit utiliser l'équipement de protection complète y compris un appareil de respiration auto-alimenté.

La pulvérisation avec de l'eau peut être inefficace. Si on se sert de l'eau, l'ajutage pour brume est préférable. On peut se servir de l'eau pour refroidir les contenants fermés afin d'empêcher l'augmentation de la pression et la possibilité d'une combustion automatique ou l'explosion en cas d'exposition à une chaleur extrêmement grande.

Section 6 -- MARCHE Á SUIVRE EN CAS DE DÉVERSEMENT ACCIDENTEL

MESURES À PRENDRE LORSQUE DES MATIÉRES SONT RENVERSÉES OU ÉVAPORÉES

Enlever toute source de combustion. Bien aérer.

Nettoyer avec un absorbant non réactif.

Section 7 -- MANUTENTION ET ENTREPOSAGE

CATÉGORIE D'ENTREPOSAGE

Pas Disponible

PRÉCAUTIONS Á PRENDRE LORS DE L'ENTREPOSAGE DI LA MANIPULATION

Tenir loin de la chaleur, étincelles et de flamme nue. Les vapeurs peuvent s'accumuler rapidement et s'enflammer et causer une explosion.

Aucours de l'utilisation de ce produit jusqu'à la disparution de toutes les vapeurs: Garder l'endroit bien aéré. Éviter de fumer. Eteindre toute flamme, veilleuse d'appareils et réchauds. Couper la courant des poêles, des outils et appareils éléctriques ainsi que de toute autre source de combustion.

Suivre les procédures approuvées pour attacher solidement et pour permettre l'écoulement de l'éléctricité dans le sol.

Contenu sous pression. Ne pas ouvrir, incinérer ou exposer à des températures au dessus de 120 Fahrenheit. La chaleur des rayons du soleil, des radiateurs, des réchauds, de l'eau chaude, ou provenant de toute autre source, peut provoquer l'explosion du contenant. Ne pas avaler. Garder hors de la portée des enfants.

Suite à la page 4

Section 8 -- CONTRÔLE DE L'EXPOSITION ET PROTECTION INDIVIDUELLE

PRÉCAUTIONS À PRENDRE AUCOURS DE L'UTILISATION

N'utiliser ce produit que dans un endroit bien aéré.

Éviter tout contact avec la peau et les yeux. Eviter d'aspirer les vapeurs et la brume de vaporisation.

Bien se laver les mains après l'utilisation.

Ce produit peut contenir des matières classifiées comme petites particules irritantes, telles que le dioxyde de titane ou le carbonate de calcium (voir la liste ACGIH TLV, la préface et l'annexe D). On peut avoir ces particules dans des proportions dangereuses uniquement au moment du grattement et de l'éraflement de la couche séchée. Si la liste dans la 2e section ne fait aucune mention spécifique de la présence des poussières de particules, les limites applicables sont: pour ACGIH TLV 10 mg/m3 (concentration totale de poussière), 3 mg/m3 (fractionée de respiratoire).

VENTILATION

Un système permettant l'échappement local des produits est préférable. Si l'exposition aux produits de la 2e section est maintenue au-dessous des limites d'exposition applicables, le système d'échappement global est acceptable.

PROTECTION DES VOIES RESPIRATOIRES

Si on ne peut pas maintenir, par simple ventilation, le niveau auquel on s'expos personnellement en dessous des limites applicables, porter un respirateur à filtre de vapeur organique et particules approprié et bien ajusté approuvé par NIOSH/MSHA pour se protéger contre les produits de la 2e section.

Pendant que vous frottez ou poncez la couche sechée, porter un respirateur à filtre de poussière et de brume, approuvé par NIOSH/MSHA pour vous protéger contre la poussière qui peut éventuellement se dégager de ce produit, de la peinture ou de l'abrasif.

GANTS PROTECTEURS

Aucun n'est exigé pour l'application normale des produits aérosol, lorsqu'on n'attend qu'un minimum de contact avec la peau. Pour un contact prolongé et repété, portez des gants resistants aux produits chimiques.

LUNETTES DE SÉCURITÉ

Porter les lunetttes de sécurité avec des protecteurs latéraux non perforés.

AUTRES PRÉCAUTIONS

L'utilisation inappropriée de ce produit en le concentrant et en l'aspirant intentionnellement peut être dangereuse ou peut même causer la mort.

Section 9 -- PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

POIDS DU PRODUIT	6.29 lb/gal	753 g/l
DENSITÉ	0.76	
COURBE D'ÉBULLITION	<0 - 395 F	<-18 - 201 C
POINT DE FUSION	P.D.	
VOLUME VOLATIL	91 %	
VITESSE D'ÉVAPORATION	Plus vite que l'Éther	
DENSITÉ DE LA VAPEUR	Plus lourd que l'Air	
SOLUBILITÉ DANS L'EAU	P.D.	

COMPOSÉS ORGANIQUES VOLATILS (Théorique)

Volatil Poids 58.28% Moins d'eau et de solvants exemptés

Suite à la page 5

Section 10 -- STABILITÉ ET RÉACTIVITÉ

STABILITÉ -- Stable

CONDITIONS À ÉVITER

Aucun connu.

INCOMPATIBILITÉ

Aucun connu.

PRODUITS DANGEREUX DÛ À LA DÉCOMPOSITION

Par combustion: Dioxyde de carbone, monoxyde de carbone

POLYMÉRISATION DANGEREUSE

Ne Peut Pas De Produire

Section 11 -- DONNÉES TOXICOLOGIQUES

RISQUES DE SANTÉ CHRONIQUES

À partir de données expérimentales provenant d'études suffisantes mendées chez les animaux et d'études insuffisantes menées chez humains, l'éthylbenzène est classifié par le CIRC comme étant possiblement carcinogène chez les humains (group 2B). On a constaté une augmentation de certains types de cancer, y compris des tumeurs du rein chez les rats et des tumeurs du poumon et du foie chez les souris, lorsque ces animaux ont été exposés à l'inhalation de concentrations élevées d'éthylbenzène à long terme. Toutefois, ces effets n'ont pas étéobservés chez les animaux exposés à de plus faibles concentrations d'éthylbenzène. Jusqu'à présent il n'y a aucune preuve suggérant que l'éthylbenzène provoque le cancer chez les humains.

L'exposition, excessive et prolongée, aux solvants de la 2 section peut entrainer demauvaises conséquences aux systèmesdu fois,urinaire,cardio-vasculaire etreproductif.

Il existe des rapports de recherches qui associent des troubles permanentes du cerveau et du système nerveux à l'exposition excessive, répétée et prolongée aux solvants.

INFORMATION TOXICOLOGIQUE

Suite à la page 6

CAS No.	Ingredient					
74-98-6	Propane					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		Pas Disponible	
106-97-8	Butane					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		Pas Disponible	
64742-88-7	Solvant Naphta Aliphatique Moyen					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		Pas Disponible	
108-88-3	Toluène					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Éthylbenzène					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		3500	mg/kg
1330-20-7	Xylène					
		LC50	RAT	4HR	5000	ppm
		LD50	RAT		4300	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		5800	mg/kg
108-10-1	Méthylisobutylcétone					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		2080	mg/kg
763-69-9	3-Éthoxypropionate d'éthyle					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		5000	mg/kg

Section 12 -- DONNÉES ÉCOLOGIQUES

Aucunes donnies disponibles.

Section 13 -- DONNÉES SUR L'ÉLIMINATION DU PRODUIT

MÉTHODE D'ÉLIMINATION DES DÉCHETS

Les déchets provenant de ce produit peuvent être dangereux, selon la définition donnée dans la "U.S. Resource Conservation and Recovery Act" (RCRA) 40 CFR 261.

On doit soumettre les déchets au test de combustion afin de déterminer les numéros de l'EPA applicables.

Ne pas incinérer. Éliminer la pression dans le contenant. Se débarrasser du contenu confermément aux lois anti-pollution fédérales, provinciales et municipales.

Section 14 -- DONNÉES SUR LE TRANSPORT

Aucunes donnies disponibles.

Suite à la page 7

Section 15 -- DONNÉES SUR LA RÉGLEMENTATION

SARA 313 (40 CFR 372.65C) AVIS DE FOURNISSEUR

CAS No.	CHIMIQUE/COMPOSÉ	% by WT	% Element
108-88-3	Toluène	8	
100-41-4	Éthylbenzène	0.9	
1330-20-7	Xylène	5	
108-10-1	Méthylisobutylcétone	12	

DONNÉES SUR LA TSCA

Tous les produits chimiques dans ce produit sont énumérés, ou exemptez de l'énumération, sur le inventaire de TSCA.

Section 16 -- AUTRES DONNÉES

Cette FTSS a été préparée conformént aux exigences du SIMDUT; les données sont toutefois présentées sous 16 rubriques.

Les renseignements donnés ci-haut se rapportent à ce produit suivant sa formule actuelle et s'appuient sur les données disponibles en ce moment. L'addition de diluant et autres additifs peut changer considérablement les risques associés à ce produit et sa composition. Etant donné que nous n'avons pas de contrôle sur les conditions d'utilisation, nous ne donnons aucune guarantie, explicite ou implicite et nous n'assumons aucune responsabilité concernant l'usage, quel qu'il soit, de ces renseignements.

MATERIAL SAFETY DATA SHEET

H101
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

H101

HMIS CODES

Health	2*
Flammability	4
Reactivity	0

PRODUCT NAME

Hi-Heat Spray Paint, Hibachi Black

MANUFACTURER'S NAME

SHERWIN-WILLIAMS CANADA, INC.
DUPLI-COLOR Products Group
Vaughan, ON L4K 4T8

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

22-MAR-04

INFORMATION TELEPHONE NO.

(905) 761-9185

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT		UNITS	VAPOR PRESSURE
15	74-98-6	Propane			
		ACGIH TLV	2500	ppm	760 mm
		OSHA PEL	1000	ppm	
14	106-97-8	Butane			
		ACGIH TLV	800	ppm	760 mm
		OSHA PEL	800	ppm	
10	108-88-3	Toluene			
		ACGIH TLV	50	ppm (skin)	22 mm
		OSHA PEL	100	ppm (skin)	
		OSHA PEL	150	ppm (skin) STEL	
2	100-41-4	Ethylbenzene			
		ACGIH TLV	100	ppm	7.1 mm
		ACGIH TLV	125	ppm STEL	
		OSHA PEL	100	ppm	
		OSHA PEL	125	ppm STEL	
11	1330-20-7	Xylene			
		ACGIH TLV	100	ppm	5.9 mm
		ACGIH TLV	150	ppm STEL	
		OSHA PEL	100	ppm	
		OSHA PEL	150	ppm STEL	
2	64742-94-5	Medium Aromatic Hydrocarbons			
		ACGIH TLV	Not Available		0.12 mm
		OSHA PEL	Not Available		
23	67-64-1	Acetone			
		ACGIH TLV	500	ppm	180 mm
		ACGIH TLV	750	ppm STEL	
		OSHA PEL	1000	ppm	
6	14807-96-6	Talc			
		ACGIH TLV	2	mg/m3 as Resp. Dust	
		OSHA PEL	2	mg/m3 as Resp. Dust	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.8	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.56 lb/gal	785 g/l
SPECIFIC GRAVITY	0.79	
BOILING POINT	<0 - 415 F	<-18 - 212 C
MELTING POINT	Not Available	
VOLATILE VOLUME	90 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
Volatile Weight 55.71 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
100-41-4	Ethylbenzene				
		LC50	RAT	4HR	Not Available
		LD50	RAT		3500 mg/kg
1330-20-7	Xylene				
		LC50	RAT	4HR	5000 ppm
		LD50	RAT		4300 mg/kg
64742-94-5	Medium Aromatic Hydrocarbons				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
14807-96-6	Talc				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

Continued on page 6

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	10	
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	11	
	Manganese Compound	5	0.9

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

1712
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

1712

HMIS CODES

Health	2*
Flammability	3
Reactivity	0

PRODUCT NAME

KRYLON* Industrial TOUGH COAT* I.D. Fluorescent Paint, Fluorescent Red

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

04-MAY-07

INFORMATION TELEPHONE NO.

(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
6	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
9	110-54-3	Hexane				
			ACGIH TLV	50	ppm	127 mm
			OSHA PEL	50	ppm	
4	107-83-5	Isohexane Isomers				
			ACGIH TLV	Not Available		211 mm
			OSHA PEL	Not Available		
1	96-14-0	3-Methylpentane				
			ACGIH TLV	500	ppm	211 mm
			OSHA PEL	Not Available		
1	79-29-8	2,3-Dimethylbutane				
			ACGIH TLV	Not Available		230 mm
			OSHA PEL	Not Available		
7	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
2	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
9	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
21	14808-60-7	Quartz				
			ACGIH TLV	0.05	mg/m3 as Resp. Dust	
			OSHA PEL	0.1	mg/m3 as Resp. Dust	

Continued on page 2

8	7727-43-7	Barium Sulfate		
		ACGIH TLV	10	mg/m3 as Dust
		OSHA PEL	10	mg/m3 Total Dust
		OSHA PEL	5	mg/m3 Respirable Fraction

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Continued on page 3

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

Continued on page 4

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.54 lb/gal	903 g/l
SPECIFIC GRAVITY	0.91	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	79 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 47.18% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

Prolonged and repeated exposure to Hexane may cause damage to nerve tissue of the arms and legs (peripheral neuropathy), resulting in muscular weakness and loss of sensation. This effect may be increased by the presence of Methyl Ethyl Ketone.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
110-54-3	Hexane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		28700 mg/kg
107-83-5	Isohexane Isomers				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
96-14-0	3-Methylpentane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
79-29-8	2,3-Dimethylbutane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	V. M. & P. Naphtha				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
14808-60-7	Quartz				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
7727-43-7	Barium Sulfate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 6

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
110-54-3	Hexane	9	
108-88-3	Toluene	2	

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

49211
02 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
49211	06-SEP-07	Flammability	3
		Reactivity	0

PRODUCT NAME
KRYLON® RUST TOUGH® Rust Preventive Enamel (aerosol), Sun Yellow

MANUFACTURER'S NAME
SHERWIN-WILLIAMS CANADA INC.
KRYLON Products Group
Vaughan, ON L4K 4T8

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 832-2541
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)
(800) 424-9300

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
7	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
5	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
11	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.5	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
3	1330-20-7	Xylene				
			ACGIH TLV	100	ppm	5.9 mm
			ACGIH TLV	150	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	150	ppm STEL	

Continued on page 2

34	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
5	108-10-1	Methyl Isobutyl Ketone				
			ACGIH TLV	50	ppm	16 mm
			ACGIH TLV	75	ppm STEL	
			OSHA PEL	50	ppm	
			OSHA PEL	75	ppm STEL	
2	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam

Continued on page 3

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Continued on page 4

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.44 lb/gal	771 g/l
SPECIFIC GRAVITY	0.78	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	87 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 46.19% Less Water and Federally Exempt Solvents

Continued on page 5

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 6

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	V. M. & P. Naphtha				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
100-41-4	Ethylbenzene				
		LC50	RAT	4HR	Not Available
		LD50	RAT		3500 mg/kg
1330-20-7	Xylene				
		LC50	RAT	4HR	5000 ppm
		LD50	RAT		4300 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
108-10-1	Methyl Isobutyl Ketone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		2080 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 7

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	11	
100-41-4	Ethylbenzene	0.4	
1330-20-7	Xylene	3	
108-10-1	Methyl Isobutyl Ketone	5	

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
1715	22-DEC-07	Flammability	3
		Reactivity	0

PRODUCT NAME
KRYLON® Industrial TOUGH COAT™ I.D. Fluorescent Paint, Fluorescent Green

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 247-3266
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
6	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
8	110-54-3	Hexane				
			ACGIH TLV	50	ppm	127 mm
			OSHA PEL	50	ppm	
4	107-83-5	Isohexane Isomers				
			ACGIH TLV	Not Available		211 mm
			OSHA PEL	Not Available		
1	96-14-0	3-Methylpentane				
			ACGIH TLV	500	ppm	211 mm
			OSHA PEL	Not Available		
1	79-29-8	2,3-Dimethylbutane				
			ACGIH TLV	Not Available		230 mm
			OSHA PEL	Not Available		
7	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	

Continued on page 2

3	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
9	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
21	14808-60-7	Quartz				
			ACGIH TLV	0.05	mg/m3 as Resp. Dust	
			OSHA PEL	0.1	mg/m3 as Resp. Dust	
8	7727-43-7	Barium Sulfate				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Continued on page 3

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Continued on page 4

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.56 lb/gal	905 g/l
SPECIFIC GRAVITY	0.91	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	79 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 47.01% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Continued on page 5

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Prolonged and repeated exposure to Hexane may cause damage to nerve tissue of the arms and legs (peripheral neuropathy), resulting in muscular weakness and loss of sensation. This effect may be increased by the presence of Methyl Ethyl Ketone.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

TOXICOLOGY DATA

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
110-54-3	Hexane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		28700 mg/kg
107-83-5	Isohexane Isomers				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
96-14-0	3-Methylpentane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
79-29-8	2,3-Dimethylbutane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	V. M. & P. Naphtha				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
14808-60-7	Quartz				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
7727-43-7	Barium Sulfate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Continued on page 6

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
110-54-3	Hexane	8	
108-88-3	Toluene	3	

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Continued on page 7

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

C20758
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

C20758

HMIS CODES

Health	2
Flammability	4
Reactivity	0

PRODUCT NAME

15100 OSHA BLUE

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

02-JUN-05

INFORMATION TELEPHONE NO.

(216) 566-2902

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
22	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
33	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
2	763-69-9	Ethyl 3-Ethoxypropionate				
			ACGIH TLV	Not Available		1.11 mm
			OSHA PEL	Not Available		
1	1332-58-7	Kaolin				
			ACGIH TLV	2	mg/m3 as Resp. Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	
1	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

Continued on page 2

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Continued on page 3

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.29 lb/gal	753 g/l
SPECIFIC GRAVITY	0.76	
BOILING POINT	<0 - 342 F	<-18 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	91 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
Volatile Weight 51.59 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5000 mg/kg
1332-58-7	Kaolin				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	22	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

PK49SP
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

PK49SP

HMIS CODES

Health	2*
Flammability	4
Reactivity	0

PRODUCT NAME

Spray Paint, Standard Gray

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

26-OCT-05

INFORMATION TELEPHONE NO.

(800) 832-2541

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
15	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
3	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.4	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
2	1330-20-7	Xylene				
			ACGIH TLV	100	ppm	5.9 mm
			ACGIH TLV	150	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	150	ppm STEL	
3	67-63-0	2-Propanol				
			ACGIH TLV	400	ppm	33 mm
			ACGIH TLV	500	ppm STEL	
			OSHA PEL	400	ppm	
			OSHA PEL	500	ppm STEL	
1	71-36-3	1-Butanol				
			ACGIH TLV	20	ppm (Skin)	5.5 mm
			OSHA PEL	50	ppm (Skin) CEILING	
49	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
5	78-93-3	Methyl Ethyl Ketone				
			ACGIH TLV	200	ppm	70 mm
			ACGIH TLV	300	ppm STEL	
			OSHA PEL	200	ppm	
			OSHA PEL	300	ppm STEL	

Continued on page 2

7	763-69-9	Ethyl 3-Ethoxypropionate				
		ACGIH TLV	Not Available			1.11 mm
		OSHA PEL	Not Available			
5	123-86-4	n-Butyl Acetate				
		ACGIH TLV	150	ppm		10 mm
		ACGIH TLV	200	ppm STEL		
		OSHA PEL	150	ppm		
		OSHA PEL	200	ppm STEL		
2	13463-67-7	Titanium Dioxide				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	10	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

Continued on page 3

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Continued on page 4

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.48 lb/gal 776 g/l
SPECIFIC GRAVITY	0.78
BOILING POINT	<0 - 342 F <-18 - 172 C
MELTING POINT	Not Available
VOLATILE VOLUME	95 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	7.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

Volatile Weight 42.46 % Less Water and Federally Exempt Solvents

Continued on page 5

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 6

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
100-41-4	Ethylbenzene				
		LC50	RAT	4HR	Not Available
		LD50	RAT		3500 mg/kg
1330-20-7	Xylene				
		LC50	RAT	4HR	5000 ppm
		LD50	RAT		4300 mg/kg
67-63-0	2-Propanol				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5045 mg/kg
71-36-3	1-Butanol				
		LC50	RAT	4HR	8000 ppm
		LD50	RAT		790 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
78-93-3	Methyl Ethyl Ketone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		2740 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5000 mg/kg
123-86-4	n-Butyl Acetate				
		LC50	RAT	4HR	2000 ppm
		LD50	RAT		13100 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 7

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	3	
100-41-4	Ethylbenzene	0.4	
1330-20-7	Xylene	2	
71-36-3	1-Butanol	1	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

21213
04 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
21213	29-SEP-07	Flammability	4
		Reactivity	0

PRODUCT NAME
NOW® Spray Paint, Gloss Black

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
ILLINOIS BRONZE Products Group
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 832-2541
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)
(800) 424-9300

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
18	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
17	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
4	64742-89-8	Lt. Aliphatic Hydrocarbon Solvent				
			ACGIH TLV	100	ppm	53 mm
			OSHA PEL	100	ppm	
6	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
14	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
1	95-63-6	1,2,4-Trimethylbenzene				
			ACGIH TLV	25	ppm	2.03 mm
			OSHA PEL	25	ppm	
29	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	

Continued on page 2

0.6	1333-86-4	Carbon Black		
		ACGIH TLV	3.5	mg/m3
		OSHA PEL	3.5	mg/m3

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Continued on page 3

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

Continued on page 4

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	5.80 lb/gal 694 g/l
SPECIFIC GRAVITY	0.70
BOILING POINT	<0 - 337 F <-18 - 169 C
MELTING POINT	Not Available
VOLATILE VOLUME	94 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	7.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 61.92% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	Lt. Aliphatic Hydrocarbon Solvent				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	V. M. & P. Naphtha				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
95-63-6	1,2,4-Trimethylbenzene				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
1333-86-4	Carbon Black				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 6

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	14	
95-63-6	1,2,4-Trimethylbenzene	1	

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
368

HMIS CODES
Health 2
Flammability 4
Reactivity 0

PRODUCT NAME
KRYLON* WEEKEND* Spray Paint, Almond

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
01-JUL-06

INFORMATION TELEPHONE NO.
(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
19	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
39	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
2	763-69-9	Ethyl 3-Ethoxypropionate				
			ACGIH TLV	Not Available		1.11 mm
			OSHA PEL	Not Available		
2	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Continued on page 2

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

Continued on page 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.22 lb/gal 745 g/l
SPECIFIC GRAVITY	0.75
BOILING POINT	<0 - 342 F <-18 - 172 C
MELTING POINT	Not Available
VOLATILE VOLUME	93 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	7.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 48.54% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5000 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	19	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Continued on page 6

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

21215
05 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
21215	29-SEP-07	Flammability	4
		Reactivity	0

PRODUCT NAME
NOW® Spray Paint, Flat White

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
ILLINOIS BRONZE Products Group
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 832-2541
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)
(800) 424-9300

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
18	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
17	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
4	64742-89-8	Lt. Aliphatic Hydrocarbon Solvent				
			ACGIH TLV	100	ppm	53 mm
			OSHA PEL	100	ppm	
3	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
13	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
31	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
6	14807-96-6	Talc				
			ACGIH TLV	2	mg/m3 as Resp. Dust	
			OSHA PEL	2	mg/m3 as Resp. Dust	

Continued on page 2

3	13463-67-7	Titanium Dioxide			
		ACGIH	TLV	10	mg/m3 as Dust
		OSHA	PEL	10	mg/m3 Total Dust
		OSHA	PEL	5	mg/m3 Respirable Fraction

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Continued on page 3

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

Continued on page 4

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.06 lb/gal	725 g/l
SPECIFIC GRAVITY	0.73	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	94 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 55.42% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

Continued on page 5

TOXICOLOGY DATA

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	Lt. Aliphatic Hydrocarbon Solvent				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	V. M. & P. Naphtha				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
14807-96-6	Talc				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 6

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	13	

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

M107
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

M107

HMIS CODES

Health	2*
Flammability	4
Reactivity	1

PRODUCT NAME

Spray Paint, Silver

MANUFACTURER'S NAME

CONSUMER BRANDS CANADA
200 Confederation Parkway
Vaughan, ON L4K 4T8

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

08-OCT-05

INFORMATION TELEPHONE NO.

(905) 761-8866

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
16	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
16	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
1	64742-88-7	Mineral Spirits				
			ACGIH TLV	100	ppm	2 mm
			OSHA PEL	100	ppm	
34	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.4	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
2	1330-20-7	Xylene				
			ACGIH TLV	100	ppm	5.9 mm
			ACGIH TLV	150	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	150	ppm STEL	
10	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

Continued on page 4

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.23 lb/gal 746 g/l
SPECIFIC GRAVITY	0.75
BOILING POINT	<0 - 395 F <-18 - 201 C
MELTING POINT	Not Available
VOLATILE VOLUME	87 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

Volatile Weight 70.31 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-88-7	Mineral Spirits				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
100-41-4	Ethylbenzene				
		LC50	RAT	4HR	Not Available
		LD50	RAT		3500 mg/kg
1330-20-7	Xylene				
		LC50	RAT	4HR	5000 ppm
		LD50	RAT		4300 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	34	
100-41-4	Ethylbenzene	0.3	
1330-20-7	Xylene	2	

Continued on page 6

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
3202

HMIS CODES
Health 2
Flammability 4
Reactivity 0

PRODUCT NAME
KRYLON* Appliance Epoxy Paint, Almond

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
KRYLON Products Group
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
24-JAN-06

INFORMATION TELEPHONE NO.
(800) 832-2541

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
19	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
23	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
12	123-86-4	n-Butyl Acetate				
			ACGIH TLV	150	ppm	10 mm
			ACGIH TLV	200	ppm STEL	
			OSHA PEL	150	ppm	
			OSHA PEL	200	ppm STEL	
8	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

Continued on page 2

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Continued on page 3

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Continued on page 4

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.54 lb/gal	783 g/l
SPECIFIC GRAVITY	0.79	
BOILING POINT	<0 - 264 F	<-18 - 128 C
MELTING POINT	Not Available	
VOLATILE VOLUME	90 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
Volatile Weight 57.89 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
123-86-4	n-Butyl Acetate				
		LC50	RAT	4HR	2000 ppm
		LD50	RAT		13100 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	19	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Continued on page 6

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

FICHE SIGNALÉTIQUE SANTÉ-SÉCURITÉ

460505
02 00

Section 1 -- IDENTIFICATION DU PRODUIT ET DE LA SOCIÉTÉ

NUMÉRO DU PRODUIT
460505

DATE DE PRÉPARATION
29-SEP-07

Santé	2*
Inflammabilité	3
Réactivité	0

NOM DU PRODUIT
COLOUR ALL Spray Paint, Gloss Black

NOM DU FABRICANT
SHERWIN-WILLIAMS CANADA, INC.
DUPLI-COLOR Products Group
Vaughan, ON L4K 4T8

NUMÉROS DE TÉLÉPHONES ET SITES WEB
Renseignements sur le produit
(905) 761-9185
Renseignements réglementaires
(216) 566-2902 www.paintdocs.com
Urgence médicale
(216) 566-2917
Urgence de transport
(800) 424-9300
pour une urgence chimique SEULEMENT (déversement, fuite, incendie, exposition ou accident)

Section 2 -- COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

% EN POIDS	CAS No.	INGREDIENT			UNITÉS	PRESSION VAPEUR
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
21	108-88-3	Toluène				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Peau)	
			OSHA PEL	150	ppm (Peau) STEL	
40	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
3	763-69-9	3-Éthoxypropionate d'éthyle				
			ACGIH TLV	Pas Disponible		1.11 mm
			OSHA PEL	Pas Disponible		
0.4	1333-86-4	Noir de Carbone				
			ACGIH TLV	3.5	mg/m3	
			OSHA PEL	3.5	mg/m3	

Suite à la page 2

Section 3 -- IDENTIFICATION DES RISQUES

SOURCES D'EXPOSITION

L'exposition peut se produire par l'INHALATION des vapeurs ou du brouillard de pulvérisation.

La PEAU et les YEUX peuvent entrer en contact avec le produit, les vapeurs ou le brouillard de pulvérisation.

EFFET DE LA SUREXPOSITION

YEUX: Irritation des YEUX.

PEAU: L'exposition prolongée ou répétée risque de provoquer l'irritation des peau.

INHALATION: Irritation des voies respiratoires supérieures.

Peut causer la dépression nerveuse. Une sur-exposition excessive à ce produit peut entrainer la perte de conscience, voire même la mort.

L'exposition, excessive et prolongée, aux solvants de la 2 section peut entrainer de mauvaises conséquences aux systèmes du fois, urinaire, cardio-vasculaire et reproductif.

SYMPTÔMES DE SUREXPOSITION

Les maux de tête, l'étourdissement, la nausée et la perte de coordination des mouvements sont tous des symptômes d'exposition excessive aux vapeurs ou à la brume de pulvérisation.

La rougeur et les démangeaisons ou la sensation de brûlure peuvent indiquer une exposition excessive des yeux ou de la peau.

ETAT DE SANTÉ AGGRAVÉ PAR EXPOSITION

En général, aucun exposition n'est reconnue.

CANCÉROGÉNICITÉ

Voir la Section 11.

Section 4 -- PREMIERS SOINS

YEUX: Rincer les yeux à grande eau pendant 15 minutes. Aller voir un médecin.

PEAU: Laver à fond les parties affectées avec de l'eau et du savon. Enlever les habits contaminés et les laver avant de les porter de nouveau.

INHALATION: Si une personne en est affectée, l'aider à sortir des lieux. Rétablir la respiration. Aider la personne á rester calme et au chaud.

INGESTION: N'incitez pas la personne á vomir. Aller voir un médecin immédiatement.

Section 5 -- MESURES EN CAS D'INCENDIE

POINT D'ÉCLAIR	LIE	LSE
Propellant < 0 F	1.0	12.8

MOYENS D'EXTINCTION

Dioxyde de carbone, produit chimique sec, mousse

Suite à la page 3

DANGERS D'INCENDIE OU D'EXPLOSION EXCEPTIONNELS

Les contenants peuvent exploser s'ils sont exposés à une très grande chaleur.

L'application aux surfaces chaudes exige qu'on prenne des précautions spéciales.

En cas d'urgence, une exposition excessive aux produits de décomposition peut constituer un danger pour la santé. Les symptômes peuvent ne pas se manifester immédiatement. Voir le médecin.

MESURES PARTICULIÉRES DI PROTECTION CONTRE L'INCENDIE

On doit utiliser l'équipement de protection complète y compris un appareil de respiration auto-alimenté.

La pulvérisation avec de l'eau peut être inefficace. Si on se sert de l'eau, l'ajutage pour brume est préférable. On peut se servir de l'eau pour refroidir les contenants fermés afin d'empêcher l'augmentation de la pression et la possibilité d'une combustion automatique ou l'explosion en cas d'exposition à une chaleur extrêmement grande.

Section 6 -- MARCHE Á SUIVRE EN CAS DE DÉVERSEMENT ACCIDENTEL

MESURES À PRENDRE LORSQUE DES MATIÉRES SONT RENVERSÉES OU ÉVAPORÉES

Enlever toute source de combustion. Bien aérer.

Nettoyer avec un absorbant non réactif.

Section 7 -- MANUTENTION ET ENTREPOSAGE

CATÉGORIE D'ENTREPOSAGE

Pas Disponible

PRÉCAUTIONS Á PRENDRE LORS DE L'ENTREPOSAGE DI LA MANIPULATION

Tenir loin de la chaleur, étincelles et de flamme nue. Les vapeurs peuvent s'accumuler rapidement et s'enflammer et causer une explosion.

Aucours de l'utilisation de ce produit jusqu'à la disparution de toutes les vapeurs: Garder l'endroit bien aéré. Eviter de fumer. Eteindre toute flamme, veilleuse d'appareils et réchauds. Couper la courant des poêles, des outils et appareils éléctriques ainsi que de toute autre source de combustion.

Suivre les procédures approuvées pour attacher solidement et pour permettre l'écoulement de l'éléctricité dans le sol.

Contenu sous pression. Ne pas ouvrir, incinérer ou exposer à des températures au dessus de 120 Fahrenheit. La chaleur des rayons du soleil, des radiateurs, des réchauds, de l'eau chaude, ou provenant de toute autre source, peut provoquer l'explosion du contenant. Ne pas avaler. Garder hors de la portée des enfants.

Suite à la page 4

Section 8 -- CONTRÔLE DE L'EXPOSITION ET PROTECTION INDIVIDUELLE

PRÉCAUTIONS À PRENDRE AUCOURS DE L'UTILISATION

N'utiliser ce produit que dans un endroit bien aéré.

Éviter tout contact avec la peau et les yeux. Eviter d'aspirer les vapeurs et la brume de vaporisation.

Bien se laver les mains après l'utilisation.

Ce produit peut contenir des matières classifiées comme petites particules irritantes, telles que le dioxyde de titane ou le carbonate de calcium (voir la liste ACGIH TLV, la préface et l'annexe D). On peut avoir ces particules dans des proportions dangereuses uniquement au moment du grattement et de l'éraflement de la couche séchée. Si la liste dans la 2e section ne fait aucune mention spécifique de la présence des poussières de particules, les limites applicables sont: pour ACGIH TLV 10 mg/m3 (concentration totale de poussière), 3 mg/m3 (fractionée de respiratoire).

VENTILATION

Un système permettant l'échappement local des produits est préférable. Si l'exposition aux produits de la 2e section est maintenue au-dessous des limites d'exposition applicables, le système d'échappement global est acceptable.

PROTECTION DES VOIES RESPIRATOIRES

Si on ne peut pas maintenir, par simple ventilation, le niveau auquel on s'expos personnellement en dessous des limites applicables, porter un respirateur à filtre de vapeur organique et particules approprié et bien ajusté approuvé par NIOSH/MSHA pour se protéger contre les produits de la 2e section.

Pendant que vous frottez ou poncez la couche sechée, porter un respirateur à filtre de poussière et de brume, approuvé par NIOSH/MSHA pour vous protéger contre la poussière qui peut éventuellement se dégager de ce produit, de la peinture ou de l'abrasif.

GANTS PROTECTEURS

Aucun n'est exigé pour l'application normale des produits aérosol, lorsqu'on n'attend qu'un minimum de contact avec la peau. Pour un contact prolongé et repété, portez des gants resistants aux produits chimiques.

LUNETTES DE SÉCURITÉ

Porter les lunetttes de sécurité avec des protecteurs latéraux non perforés.

AUTRES PRÉCAUTIONS

L'utilisation inappropriée de ce produit en le concentrant et en l'aspirant intentionnellement peut être dangereuse ou peut même causer la mort.

Section 9 -- PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

POIDS DU PRODUIT	6.08 lb/gal 728 g/l
DENSITÉ	0.73
COURBE D'ÉBULLITION	<0 - 342 F <-18 - 172 C
POINT DE FUSION	P.D.
VOLUME VOLATIL	94 %
VITESSE D'ÉVAPORATION	Plus vite que l'Éther
DENSITÉ DE LA VAPEUR	Plus lourd que l'Air
SOLUBILITÉ DANS L'EAU	P.D.
pH	7.0

Suite à la page 5

COMPOSÉS ORGANIQUES VOLATILS (Théorique)
Volatil Poids 51.59% Moins d'eau et de solvants exemptés

Section 10 -- STABILITÉ ET RÉACTIVITÉ

STABILITÉ -- Stable

CONDITIONS À ÉVITER

Aucun connu.

INCOMPATIBILITÉ

Aucun connu.

PRODUITS DANGEREUX DÛ À LA DÉCOMPOSITION

Par combustion: Dioxyde de carbone, monoxyde de carbone

POLYMÉRISATION DANGEREUSE

Ne Peut Pas De Produire

Section 11 -- DONNÉES TOXICOLOGIQUES

RISQUES DE SANTÉ CHRONIQUES

Il existe des rapports de recherches qui associent des troubles permanentes du cerveau et du système nerveux à l'exposition excessive, répétée et prolongée aux solvants.

Le carbone noir est classifié par l'IARC comme étant possiblement carcinogène aux humains (groupe 2B) basé sur des données animales expérimentales. Cependant, dans les humains, l'évidence de carcinogénéité est insuffisante.

INFORMATION TOXICOLOGIQUE

CAS No.	Ingredient					
74-98-6	Propane					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		Pas Disponible	
106-97-8	Butane					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		Pas Disponible	
108-88-3	Toluène					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		5800	mg/kg
763-69-9	3-Éthoxypropionate d'éthyle					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		5000	mg/kg
1333-86-4	Noir de Carbone					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		Pas Disponible	

Section 12 -- DONNÉES ÉCOLOGIQUES

Aucunes donnies disponibles.

Suite à la page 6

Section 13 -- DONNÉES SUR L'ÉLIMINATION DU PRODUIT

MÉTHODE D'ÉLIMINATION DES DÉCHETS

Les déchets provenant de ce produit peuvent être dangereux, selon la définition donnée dans la "U.S. Resource Conservation and Recovery Act" (RCRA) 40 CFR 261.

On doit soumettre les déchets au test de combustion afin de déterminer les numéros de l'EPA applicables.

Ne pas incinérer. Eliminer la pression dans le contenant. Se débarrasser du contenu confermément aux lois anti-pollution fédérales, provinciales et municipales.

Section 14 -- DONNÉES SUR LE TRANSPORT

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- DONNÉES SUR LA RÉGLEMENTATION

SARA 313 (40 CFR 372.65C) AVIS DE FOURNISSEUR

CAS No.	CHIMIQUE/COMPOSÉ	% by WT	% Element
108-88-3	Toluène	21	

DONNÉES SUR LA TSCA

Tous les produits chimiques dans ce produit sont énumérés, ou exemptez de l'énumération, sur le inventaire de TSCA.

Section 16 -- AUTRES DONNÉES

Cette FTSS a été préparée conformént aux exigences du SIMDUT; les données sont toutefois présentées sous 16 rubriques.

Les renseignements donnés ci-haut se rapportent à ce produit suivant sa formule actuelle et s'appuient sur les données disponibles en ce moment. L'addition de diluant et autres additifs peut changer considérablement les risques associés à ce produit et sa composition. Etant donné que nous n'avons pas de contrôle sur les conditions d'utilisation, nous ne donnons aucune guarantie, explicite ou implicite et nous n'assumons aucune responsabilité concernant l'usage, quel qu'il soit, de ces renseignements.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
368

HMIS CODES
Health 2
Flammability 4
Reactivity 0

PRODUCT NAME
KRYLON* WEEKEND* Spray Paint, Almond

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
01-JUL-06

INFORMATION TELEPHONE NO.
(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
19	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
39	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
2	763-69-9	Ethyl 3-Ethoxypropionate				
			ACGIH TLV	Not Available		1.11 mm
			OSHA PEL	Not Available		
2	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Continued on page 2

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

Continued on page 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.22 lb/gal 745 g/l
SPECIFIC GRAVITY	0.75
BOILING POINT	<0 - 342 F <-18 - 172 C
MELTING POINT	Not Available
VOLATILE VOLUME	93 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	7.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 48.54% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5000 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	19	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Continued on page 6

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
368

HMIS CODES
Health 2
Flammability 4
Reactivity 0

PRODUCT NAME
KRYLON* WEEKEND* Spray Paint, Almond

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
01-JUL-06

INFORMATION TELEPHONE NO.
(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
19	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
39	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
2	763-69-9	Ethyl 3-Ethoxypropionate				
			ACGIH TLV	Not Available		1.11 mm
			OSHA PEL	Not Available		
2	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

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INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

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Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

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EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

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Containers may explode when exposed to extreme heat.

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Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

Continued on page 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

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EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.22 lb/gal 745 g/l
SPECIFIC GRAVITY	0.75
BOILING POINT	<0 - 342 F <-18 - 172 C
MELTING POINT	Not Available
VOLATILE VOLUME	93 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	7.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 48.54% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

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TOXICOLOGY DATA

Continued on page 5

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		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5000 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

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Section 14 -- TRANSPORT INFORMATION

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Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	19	

CALIFORNIA PROPOSITION 65

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The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
368

HMIS CODES
Health 2
Flammability 4
Reactivity 0

PRODUCT NAME
KRYLON* WEEKEND* Spray Paint, Almond

MANUFACTURER'S NAME
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Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
01-JUL-06

INFORMATION TELEPHONE NO.
(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
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			ACGIH TLV	800	ppm	760 mm
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			ACGIH TLV	50	ppm (Skin)	22 mm
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			OSHA PEL	Not Available		
2	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Continued on page 2

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

Continued on page 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.22 lb/gal 745 g/l
SPECIFIC GRAVITY	0.75
BOILING POINT	<0 - 342 F <-18 - 172 C
MELTING POINT	Not Available
VOLATILE VOLUME	93 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	7.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 48.54% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5000 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	19	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Continued on page 6

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

CW01024
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

CW01024

HMIS CODES

Health	2*
Flammability	4
Reactivity	0

PRODUCT NAME

COLORWORKS* from KRYLON* Interior/Exterior Spray Paint, Flat Black

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
KRYLON Products Group
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

30-JUL-05

INFORMATION TELEPHONE NO.

(800) 832-2541

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
18	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
17	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
3	64742-89-8	Lt. Aliphatic Hydrocarbon Solvent				
			ACGIH TLV	100	ppm	53 mm
			OSHA PEL	100	ppm	
5	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
11	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.1	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
1	111-76-2	2-Butoxyethanol				
			ACGIH TLV	20	ppm	0.88 mm
			OSHA PEL	25	ppm	
23	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
11	14807-96-6	Talc				
			ACGIH TLV	2	mg/m3 as Resp. Dust	
			OSHA PEL	2	mg/m3 as Resp. Dust	

Continued on page 2

0.4	1333-86-4	Carbon Black		
		ACGIH TLV	3.5	mg/m3
		OSHA PEL	3.5	mg/m3

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Continued on page 3

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

Continued on page 4

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.22 lb/gal	745 g/l
SPECIFIC GRAVITY	0.75	
BOILING POINT	<0 - 343 F	<-18 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	90 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

Volatile Weight 57.23 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Continued on page 5

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

CAS No.	Ingredient Name					
74-98-6	Propane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
64742-89-8	Lt. Aliphatic Hydrocarbon Solvent					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
64742-89-8	V. M. & P. Naphtha					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
111-76-2	2-Butoxyethanol					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		470	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
14807-96-6	Talc					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
1333-86-4	Carbon Black					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Continued on page 6

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	11	
100-41-4	Ethylbenzene	0.1	
	Glycol Ethers	1	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

AEROSOL PAINT, RUST-TOUGH, GLOSS WHITE, 15 OZ

Produit: NA393
Date de Révision: 2004 10 07

Section 1: RENSEIGNEMENTS SUR LE PRODUIT

Famille chimique: Enduit aérosol.

Fabricant: The Sherwin-Williams Company
Krylon Products Group
Cleveland, OH 44115.

Numéro de téléphone d'urgence du fabricant: 216-566-2917.

Numéro de téléphone d'information: 800-832-2541.

Fournisseur: Même que le manufacturier.

Classification du TMD: AÉROSOLS
UN1950
Classe 2.1.

Classification du SIMDUT:

A, B5, D2A, D2B.

Statut de la LIS: La(les) substance(s) mentionnée(s) dans la section 2 apparait(ssent) sur la Liste Intérieure des Substances.

Date de la fiche signalétique du fournisseur: 2004 10 07

Section 2: INGREDIENTS DANGEREUX

C.A.S.	CONCENTRAT %	Ingrédient	VLE	DL50	CL50
100-41-4	0-4	ETHYLBENZENE	100 PPM	3500 MG/KG ORALE RAT 17800 UL/KG LAPIN DERMIQUE	55,000 MG/M3/2H INHALATION RAT 35,500 MG/M3/2H SOURIS INHALATION
106-97-8	6	N-BUTANE	800 PPM	NON DISPONIBLE	658,000 MG/M3/4H INHALATION RAT 680,000 MG/M3/2H SOURIS INHALATION
107-87-9	8	2-PENTANONE	200 PPM	1600 MG/KG ORALE RAT 1600 MG/KG SOURIS ORAL 6500 MG/KG LAPIN DERMIQUE	22,000 MG/M3/2H SOURIS INHALATION
108-88-3	10	TOLUENE	50 PPM (PEAU)	636 MG/KG ORALE RAT 14,100 UL/KG LAPIN DERMIQUE	49,000 MG/M3/4 HEURE INHALATION RAT

					400 PPM 24 HEURE SOURIS INHALATION 10,000 MG M3 SOURIS INHALATION 30,000 MG M3 2H SOURIS INHALATION
1330-20-7	2	Xylene	100 PPM	4300 MG KG ORALE RAT 2119 MG KG SOURIS ORAL >1700 MG KG LAPIN DERMIQUE	5000 PPM 4H INHALATION RAT
13463-67-7	8	DIOXYDE DE TITANE	10 MG M3	NON DISPONIBLE	NON DISPONIBLE
64742-89-8	5	NAPHTE DE SOLVANT, ALIPHATIQUE LEGER	NON DISPONIBLE	NON DISPONIBLE	NON DISPONIBLE
67-64-1	27	ACETONE	500 PPM	5800 MG KG ORALE RAT 3000 MG KG SOURIS ORAL 5340 MG KG LAPIN ORAL	50,100 MG M3 8H INHALATION RAT 44,000 MG M3 4H SOURIS INHALATION
74-98-6	14	PROPANE	2500 PPM	NON DISPONIBLE	NON DISPONIBLE

Section 2A: INFORMATION ADDITIONNELLE SUR LES INGREDIENTS

Note: #CAS: 64742-89-8: VLE 300 ppm (fournisseur).

Note: #CAS 108-88-3:CL50 4000 ppm 4 hrs rat inhalation.

Section 3: DONNÉES PHYSIQUES

État physique: Liquide (aérosol).

Odeur et apparence: Couleur blanche.

Seuil olfactif (ppm): Non disponible.

Tension de vapeur (mmHg): 5.9 - 760

Densité de vapeur (air=1): Plus lourdes que l'air.

Volatils (%)

Par volume: 86%

Taux d'évaporation (acétate butylique = 1): Plus rapide que l'éther.

Point d'ébullition (°C): <-18 - 162°C (<0 - 325°F)

Point de congélation (°C): Non disponible.

pH: Non disponible.

Densité @ 20°C: 0.82

Solubilité dans l'eau (%): Non disponible.

Coefficient de partage eau/huile: Non disponible.

COV: Théorique.
Par poids.
Moins l'eau et les solvants exemptés.
48.17%

Section 4: RISQUES D'INCENDIE & D'EXPLOSION

Inflammabilité: Aérosol inflammable.

Conditions d'inflammabilité: Chaleur, étincelles et flammes nues.

Agents d'extinction: Dioxyde de carbone, poudre chimique sèche, mousse.
Une vaporisation d'eau peut être inefficace.
Si on utilise de l'eau, un brouillard est préférable.

Procédures spéciales: Appareil respiratoire autonome requis.
Les pompiers doivent porter l'équipement de protection habituel.
Utiliser de l'eau pour refroidir les contenants exposés au feu.

Température d'auto-inflammation: Non disponible.

Point d'éclair (°C), méthode: Propulseur.
<-18°C (<0°F)

Limite inférieure d'inflammation (% vol): 0.9

Limite supérieure d'inflammation (% vol): 12.8

Données sur L'explosion

Sensibilité aux décharges statiques: Prendre des mesures préventives contre les décharges électro-statiques.

Sensibilité aux chocs: Contenu sous pression.

Produits de combustion dangereux: Monoxyde de carbone (CO).
Dioxyde de carbone (CO2).

Pouvoir explosif: Les vapeurs s'accumuleront et peuvent s'allumer de façon explosive.
Les contenants aérosols sont extrêmement inflammables. Ils peuvent éclater s'ils sont exposés à la chaleur ou au feu.

Section 5: CONDITIONS D'INSTABILITÉ CHIMIQUE

Stabilité chimique: Ce produit est stable.

Conditions de instabilité: Aucune connue.

Polymérisation dangereuse.: Ne surviendra pas.

Substance incompatible: Aucun connu.

Produits de décomposition dangereux: Voir produits de combustion dangereux.

Section 6: PROPRIÉTÉS TOXICOLOGIQUES

Voies de pénétration: Contact cutané, contact oculaire, inhalation et ingestion.

Effets d'exposition aiguë

Contact oculaire: Irritant.
Peut causer des démangeaisons, brûlures ou rougeurs.

Contact cutané: Un contact prolongé et répété peut causer une irritation.
Peut causer des rougeurs, des démangeaisons et une sensation de brûlure.

Inhalation: Peut causer un manque de coordination.
Peut causer des maux de tête, des étourdissements et des nausées.
Peut causer une dépression du système nerveux central.
Irritation du système respiratoire.

Ingestion: Peut être nocif si avalé.

Les effets d'exposition chronique: Une surexposition industrielle aux solvants peut entrainer des dommages permanents au cerveau et système nerveux.
Un mauvais usage intentionnel en concentrant les vapeurs de façon délibérée et en les inhalant peut être nocif ou fatal.
L'exposition prolongée aux ingrédients de solvants dans la section 2 peut causer des effets néfastes aux systèmes du foie, urinaire, cardiovasculaire et reproductif.
Les rats exposés à la poussière du dioxyde de titane à 250 mg m3 développerent le cancer des poumons. Toutefois, de tels niveaux d'exposition ne sont pas réalisables dans le lieu de travail.

DL50 du produit, espèces et voie d'administration: Non disponible pour le mélange, voir la section des ingrédients.

CL50 du produit, espèces et voie d'administration: Non disponible pour le mélange, voir la section des ingrédients.

Limite d'exposition du produit: 10 mg m3 poussières inhalables
3 mg m3 poussières respirables.

Capacité de sensibilisation du produit: Non disponible.

Effets cancérigènes: L'éthyle benzène est classifié comme cancérigène par IARC (groupe 2B).

Effets sur la reproduction: Le toluène est une toxine pour la reproduction.
Le xylène est toxique pour le système reproducteur.

Effets tératogènes: Non disponible.

Effets mutagènes: Non disponible.

Produits Synergiques: Non disponible

Section 7: MESURES DE PREVENTION

Mesures de precaution

Gants/Type: Des gants résistant aux produits chimiques.
Non requis pour un usage normal.

Respiratoire/Type: Si la ventilation est inadéquate.
(approuvé par NIOSH).
Respirateur anti-vapeurs organiques contre les poussieres recommandé.
When sanding or abrading the dry film wear a Niosh approved dust mist respirator.

Oeil/Type: Lunettes de sécurité à écrans non perforés.

Chaussures/Type: Souliers de sécurité selon les règlements.

Vêtements/Type: Porter des vêtements protecteurs appropriés.

Autres/Type: Une douche oculaire devrait être à proximité.
Une douche d'urgence devrait être à proximité.

Ventilation requise: Ventilation aspirante localisée aux points d'émission est préférable.
La ventilation générale mécanique est suffisante.

Fuites/Déversements: Éliminer toute source d'allumage.
Ventiler les lieux.
Le personnel doit porter un équipement de protection individuel.
Absorber avec un absorbant inerte.
Placer dans un contenant approprié pour l'élimination.

Élimination des déchets: Selon les règlements municipaux, provinciaux et fédéraux.
Ne pas perforer ou incinérer les contenants.

Procédures de manutention et équipement: Protéger contre les dommages physiques.
Garder à l'écart de la chaleur, des étincelles et des flammes nues.
Éviter de respirer les vapeurs brumes.
S'assurer que la ventilation est adéquate.
Porter l'équipement de protection individuel approprié à la tâche.
Se laver à fond après l'utilisation.
Garder hors de la portée des enfants.
Utiliser les bonnes procédures de mise à la terre.
Éviter le contact avec la peau, les yeux et les vêtements.
Ne pas fumer durant la manipulation ou dans le lieu d'entreposage.
Ne pas ingérer.
Ne pas percer, incinérer ou brûler les contenants.
Faire nettoyer les vêtements contaminés avant de les réutiliser.

Besoins d'entreposage: Éviter l'exposition directe aux rayons solaires.
A l'écart de la chaleur et des sources d'allumage.
Entreposer dans un endroit frais, sec et bien aéré.
Ne pas entreposer au dessus de 48.8°C (120°F).

Classification du TMD: AÉROSOLS
UN1950
Classe 2.1.

Instructions d'expédition spéciales: Voir l'information sur le transport.

Section 8: PREMIERS SOINS

Contact cutané: Enlever les vêtements contaminés.
Laver à fond avec du savon et de l'eau.
Obtenir de l'aide médicale si l'irritation persiste.

Contact oculaire: Rincer à l'eau pendant au moins 15 minutes.
Consulter un médecin.

Inhalation: Garder la personne au chaud et au repos.
Amener la victime à l'air frais. Si la respiration est difficile, administrer de l'oxygène. Si la respiration est arrêtée, une personne qualifiée devrait commencer la respiration artificielle. Obtenir de l'aide médicale.

Ingestion: Ne pas faire vomir. Consulter un médecin immédiatement.

Information additionnelle.: Les renseignements présentés dans le présent document proviennent de sources présumées fiables à ce jour. Cette compagnie ne garantit nullement leur exactitude.

Section 9: INFORMATIONS ADDITIONNELLES

Information générale: Cette fiche signalétique a été préparée à partir d'informations obtenues des fiches signalétiques des fournisseurs et de diverses sources reconnues comme le Centre Canadien de Santé et Sécurité au Travail.

Données préparées par: Systèmes Informatiques Conforme-Action
Une division de 2843471 Canada Inc.
1840 Transcanadien, bureau 202
Dorval, QC H9P 1H7
Tel: (514) 683-2060 Fax: (514) 683-1445
24 hr. 1-800-990-5093 support@netmsds.com.

Cette Fiche Signaletique a ete generer par *Conforme Plus* Service d'Application. Visitez nous www.netmsds.com

AEROSOL PAINT, RUST-TOUGH, GLOSS WHITE, 15 OZ

Product: NA393
Revision Date: 2004 10 07

Section 1: PRODUCT INFORMATION

Chemical family: Aerosol coating.

Manufacturer: The Sherwin-Williams Company
Krylon Products Group
Cleveland, OH 44115.

Manufacturer emergency phone number: 216-566-2917.

Information phone number: 800-832-2541.

Supplier: Same as manufacturer.

TDG classification: AEROSOLS
UN1950
Class 2.1.

WHMIS classification:

A, B5, D2A, D2B.

DSL status: The substance(s) listed in section 2 appear on the Domestic Substances List.

Supplier MSDS date: 2004 10 07

Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	TLV	LD50	LC50
100-41-4	0.4	ETHYLBENZENE	100 PPM	3500 MG/KG RAT ORAL 17800 UL/KG RABBIT DERMAL	55,000 MG/M3/2H RAT INHALATION 35,500 MG/M3/2H MOUSE INHALATION
106-97-8	6	N-BUTANE	800 PPM	NOT AVAILABLE	658,000 MG/M3/4H RAT INHALATION 680,000 MG/M3/2H MOUSE INHALATION
107-87-9	8	2-PENTANONE	200 PPM	1600 MG/KG RAT ORAL 1600 MG/KG MOUSE ORAL 6500 MG/KG RABBIT DERMAL	22,000 MG/M3/2H MOUSE INHALATION
108-88-3	10	TOLUENE	50 PPM (SKIN)	636 MG/KG RAT ORAL 14,100 UL/KG RABBIT DERMAL	49,000 MG/M3/4 HOURS RAT INHALATION 400 PPM/24 HOURS MOUSE INHALATION

					10,000 MG M3 MOUSE INHALATION 30,000 MG M3 2H MOUSE INHALATION
1330 20 7	2	XYLENE	100 PPM	4300 MG KG RAT ORAL 2119 MG KG MOUSE ORAL >1700 MG KG RABBIT DERMAL	5000 PPM 4H RAT INHALATION
13463 67 7	8	TITANIUM DIOXIDE	10 MG M3	NOT AVAILABLE	NOT AVAILABLE
64742 89 8	5	SOLVENT NAPHTHA, LIGHT ALIPHATIC	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
67 64 1	27	ACETONE	500 PPM	5800 MG KG RAT ORAL 3000 MG KG MOUSE ORAL 5340 MG KG RABBIT ORAL	50,100 MG M3 8H RAT INHALATION 44,000 MG M3 4H MOUSE INHALATION
74 98 6	14	PROPANE	2500 PPM	NOT AVAILABLE	NOT AVAILABLE

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: CAS#: 64742-89-8: TLV 300 ppm (supplier).

Note: CAS# 108-88-3:LC50 4000 ppm 4 hrs rat inhalation.

Section 3: PHYSICAL DATA

Physical state: Liquid (aerosol).

Appearance & odor: White

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): 5.9 - 760

Vapour density (air=1): Heavier than air.

Volatiles (%)

By volume: 86%

Evaporation rate (butyl acetate = 1): Faster than ether.

Boiling point (°C): <-18 - 162°C (<0 - 325°F)

Freezing point (°C): Not available.

pH: Not available.

Specific gravity @ 20 °C: 0.82

Solubility in water (%): Not available.

Coefficient of water\oil dist.: Not available

VOC: Theoretical.
By weight.
Less water and exempt solvents.
48.17%

Section 4: FIRE & EXPLOSION DATA

Flammability: Flammable aerosol.

Conditions of flammability: Heat, sparks and open flames.

Extinguishing media: Carbon dioxide, dry chemical, foam.
Water spray may be ineffective.
If water is used, fog nozzles are preferable.

Special procedures: Self-contained breathing apparatus required.
Firefighters should wear the usual protective gear.
Use water to cool fire exposed containers.

Auto-ignition temperature: Not available.

Flash point (°C), method: Propellant.
<-18°C (<0°F)

Lower flammability limit (% vol): 0.9

Upper flammability limit (% vol): 12.8

Explosion Data

Sensitivity to static discharge: Take precautionary measures against static discharge.

Sensitivity to mechanical impact: Contents under pressure.

Hazardous combustion products: Carbon monoxide (CO).
Carbon dioxide (CO2).

Explosive power: Vapours will accumulate and may ignite explosively.
Aerosol containers are extremely flammable. Containers may rupture if exposed to heat or fire.

Section 5: REACTIVITY DATA

Chemical stability: Product is stable.

Conditions of instability: None known.

Hazardous polymerization: Will not occur.

Incompatible substances: None known.

Hazardous decomposition products: See hazardous combustion products.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Skin contact, eye contact, inhalation and ingestion.

Effects of acute exposure

Eye contact: Irritant.
May cause itching, burning or redness.

Skin contact: Prolonged and repeated contact may cause irritation.
May cause redness, itching and burning sensation.

Inhalation: May cause loss of coordination.
May cause headache, dizziness and nausea.
May cause central nervous system depression.
Irritation of respiratory system.

Ingestion: May be harmful if swallowed.

Effects of chronic exposure: Prolonged occupational overexposure to solvents may lead to permanent brain and nervous system damage.
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.
Prolonged exposure to solvent ingredients in section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.
Rats exposed to titanium dioxide dust at 250 mg m3 developed lung cancer.
However, such exposure levels are not attainable in the workplace.

LD50 of product, species & route: Not available for mixture, see the ingredients section.

LC50 of product, species & route: Not available for mixture, see the ingredients section.

Exposure limit of material: 10 mg m3 total dust; 3mg m3 respirable dust.

Sensitization to product: Not available.

Carcinogenic effects: Ethylbenzene is classified as a carcinogen by IARC (group 2B).

Reproductive effects: Toluene is a reproductive toxin
Xylene is a reproductive toxin.

Teratogenicity: Not available

Mutagenicity: Not available.

Synergistic materials: Not available.

Section 7: PREVENTATIVE MEASURES

Precautionary Measures

Gloves/Type: Chemical resistant gloves.
None required with normal use.

Respiratory/Type: If ventilation is inadequate.
(NIOSH approved).
Organic vapor particulate respirator recommended.
When sanding or abrading the dry film wear a Niosh approved dust mist respirator.

Eye/Type: Safety glasses with non-perforated shields.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type: Wear adequate protective clothes.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Local exhaust at points of emission preferred.
Mechanical (general) ventilation is acceptable.

Leak/Spill: Eliminate all sources of ignition.
Ventilate area.
Wear appropriate protective equipment.
Soak up with inert absorbent.
Place in appropriate container for disposal.

Waste disposal: In accordance with municipal, provincial and federal regulations.
Do not puncture or incinerate containers.

Handling procedures and equipment: Protect against physical damage.
Keep away from heat, sparks, and open flame.
Avoid breathing vapors mists.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Wash thoroughly after handling.
Keep out of reach of children.
Use proper grounding procedures.
Avoid contact with skin, eyes and clothing.
Do not smoke in handling or storage area.
Do not take internally.
Do not puncture, incinerate, or burn.
Launder contaminated clothing prior to reuse.

Storage requirements: Keep out of direct sunlight.
Keep away from heat, and ignition sources.
Store in a cool, dry and well ventilated area.
Do not store above 48.8°C (120°F).

TDG classification: AEROSOLS
UN1950
Class 2.1.

Special shipping information: See transportation information.

Section 8: FIRST AID MEASURES

Skin contact: Remove contaminated clothing.
Wash thoroughly with soap and water.
Seek medical attention if irritation persists.

Eye contact: Flush with water for at least 15 minutes.
Get medical attention.

Inhalation: Keep person warm and at rest.
Remove victim to fresh air. If breathing is difficult administer oxygen. If not breathing, have qualified person give artificial respiration. Obtain medical attention.

Ingestion: Do not induce vomiting, seek immediate medical attention.

Additional information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 9: ADDITIONAL INFORMATION

General note: This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

Data prepared by: Conform-Action Data Systems
A division of 2843471 Canada Inc.
1840 Transcanada, suite 202
Dorval, QC H9P 1H7
Tel: (514) 683-2060 Fax: (514) 683-1445
24 hr. 1-800-990-5093 support@netmsds.com.

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MATERIAL SAFETY DATA SHEET

M103
03 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
M103	30-SEP-07	Flammability	3
		Reactivity	1

PRODUCT NAME
Spray Paint, Aluminum

MANUFACTURER'S NAME
SHERWIN-WILLIAMS CANADA, INC.
200 Confederation Pkwy
Vaughan, ON L4K 4T8

TELEPHONE NUMBERS and WEBSITES
Product Information
(905) 761-9185
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
16	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
16	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
1	64742-88-7	Mineral Spirits				
			ACGIH TLV	100	ppm	2 mm
			OSHA PEL	100	ppm	
34	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.4	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
2	1330-20-7	Xylene				
			ACGIH TLV	100	ppm	5.9 mm
			ACGIH TLV	150	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	150	ppm STEL	

Continued on page 2

10	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Continued on page 3

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

Continued on page 4

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.24 lb/gal	747 g/l
SPECIFIC GRAVITY	0.75	
BOILING POINT	<0 - 395 F	<-18 - 201 C
MELTING POINT	Not Available	
VOLATILE VOLUME	87 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 69.51% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Continued on page 5

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

TOXICOLOGY DATA

CAS No.	Ingredient Name					
74-98-6	Propane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
64742-88-7	Mineral Spirits					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
1330-20-7	Xylene					
		LC50	RAT	4HR	5000	ppm
		LD50	RAT		4300	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 6

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	34	
100-41-4	Ethylbenzene	0.3	
1330-20-7	Xylene	2	

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
DSCC362	29-SEP-07	Flammability	3
		Reactivity	0

PRODUCT NAME
AUTO SPRAY® Paint, Bright White

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS CO.
DUPLI-COLOR Products Group
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 247-3270 www.duplicolor.com
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
10	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
10	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
9	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
1	64-17-5	Ethanol				
			ACGIH TLV	1000	ppm	44 mm
			OSHA PEL	1000	ppm	
40	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
7	78-93-3	Methyl Ethyl Ketone				
			ACGIH TLV	200	ppm	70 mm
			ACGIH TLV	300	ppm STEL	
			OSHA PEL	200	ppm	
			OSHA PEL	300	ppm STEL	
8	763-69-9	Ethyl 3-Ethoxypropionate				
			ACGIH TLV	Not Available		1.11 mm
			OSHA PEL	Not Available		

Continued on page 2

4	13463-67-7	Titanium Dioxide			
		ACGIH	TLV	10	mg/m3 as Dust
		OSHA	PEL	10	mg/m3 Total Dust
		OSHA	PEL	5	mg/m3 Respirable Fraction

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	19.0

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Continued on page 3

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

Continued on page 4

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.48 lb/gal	776 g/l
SPECIFIC GRAVITY	0.78	
BOILING POINT	<0 - 342 F	<-18 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	92 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 46.44% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
64-17-5	Ethanol				
		LC50	RAT	4HR	Not Available
		LD50	RAT		7060 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
78-93-3	Methyl Ethyl Ketone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		2740 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5000 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 6

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	9	

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

DA1656
03 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
DA1656	29-SEP-07	Flammability	3
		Reactivity	0

PRODUCT NAME
DUPLI-COLOR™ Enamel Paint, Leather Brown

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS CO.
DUPLI-COLOR Products Group
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 247-3270 www.duplicolor.com
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
15	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
14	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
15	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
4	71-36-3	1-Butanol				
			ACGIH TLV	20	ppm (Skin)	5.5 mm
			OSHA PEL	50	ppm (Skin) CEILING	
35	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
4	763-69-9	Ethyl 3-Ethoxypropionate				
			ACGIH TLV	Not Available		1.11 mm
			OSHA PEL	Not Available		
0.2	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.11 lb/gal	732 g/l
SPECIFIC GRAVITY	0.74	
BOILING POINT	<0 - 342 F	<-18 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	92 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 53.05% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
71-36-3	1-Butanol				
		LC50	RAT	4HR	8000 ppm
		LD50	RAT		790 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5000 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Continued on page 6

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	15	
71-36-3	1-Butanol	4	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

FICHE SIGNALÉTIQUE SANTÉ-SÉCURITÉ

00861
04 00

Section 1 -- IDENTIFICATION DU PRODUIT ET DE LA SOCIÉTÉ

NUMÉRO DU PRODUIT

00861

Santé	2*
Inflammabilité	3
Réactivité	0

NOM DU PRODUIT

RUST TOUGH* Rust Preventive Primer, Quick Dry Gray Primer

NOM DU FABRICANT

THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

NO. DE TÉLÉPHONE EN CAS D'URGENCE

(216) 566-2917

DATE DE PRÉPARATION

30-JUL-05

NO. DE TÉLÉPHONE ORDINAIRE

(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

% EN POIDS	CAS No.	INGREDIENT			UNITÉS	PRESSION VAPEUR
3	100-41-4	Éthylbenzène				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
19	1330-20-7	Xylène				
			ACGIH TLV	100	ppm	5.9 mm
			ACGIH TLV	150	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	150	ppm STEL	
3	64742-95-6	Solvant Naphta Aliphatique Léger				
			ACGIH TLV	Pas Disponible		3.8 mm
			OSHA PEL	Pas Disponible		
3	108-67-8	1,3,5-Triméthylbenzène				
			ACGIH TLV	25	ppm	2 mm
			OSHA PEL	25	ppm	
5	95-63-6	1,2,4-Triméthylbenzène				
			ACGIH TLV	25	ppm	2.03 mm
			OSHA PEL	25	ppm	
10	14807-96-6	Talc				
			ACGIH TLV	2	mg/m3 de resp. poussiére	
			OSHA PEL	2	mg/m3 de resp. poussiére	
10	471-34-1	Carbonate de Calcium				
			ACGIH TLV	10	mg/m3 de poussiére	
			OSHA PEL	15	mg/m3 total de polva	
			OSHA PEL	5	mg/m3 fracción respirable	
8	7727-43-7	Sulfate de Baryum				
			ACGIH TLV	10	mg/m3 de poussiére	
			OSHA PEL	10	mg/m3 total de polva	
			OSHA PEL	5	mg/m3 fracción respirable	
9	13463-67-7	Dioxyde de Titane				
			ACGIH TLV	10	mg/m3 de poussiére	
			OSHA PEL	10	mg/m3 total de polva	
			OSHA PEL	5	mg/m3 fracción respirable	

Suite à la page 2

0.6	1333-86-4	Noir de Carbone		
		ACGIH TLV	3.5	mg/m3
		OSHA PEL	3.5	mg/m3
3.09		Baryum (Ba; total)		

Section 3 -- IDENTIFICATION DES RISQUES

SOURCES D'EXPOSITION

L'exposition peut se produire par l'INHALATION des vapeurs ou du brouillard de pulvérisation.

La PEAU et les YEUX peuvent entrer en contact avec le produit, les vapeurs ou le brouillard de pulvérisation.

EFFET DE LA SUREXPOSITION

YEUX: Irritation des YEUX.

PEAU: L'exposition prolongée ou répétée risque de provoquer l'irritation des peau.

INHALATION: Irritation des voies respiratoires supérieures.

Peut causer la dépression nerveuse. Une sur-exposition excessive à ce produit peut entrainer la perte de conscience, voire même la mort.

SYMPTÔMES DE SUREXPOSITION

Les maux de tête, l'étourdissement, la nausée et la perte de coordination des mouvements sont tous des symptômes d'exposition excessive aux vapeurs ou à la brume de pulvérisation.

La rougeur et les démangeaisons ou la sensation de brûlure peuvent indiquer une exposition excessive des yeux ou de la peau.

ETAT DE SANTÉ AGGRAVÉ PAR EXPOSITION

En général, aucun exposition n'est reconnue.

CANCÉROGÉNICITÉ

Voir la Section 11.

Section 4 -- PREMIERS SOINS

YEUX: Rincer les yeux à grande eau pendant 15 minutes. Aller voir un médecin.

PEAU: Laver à fond les parties affectées avec de l'eau et du savon. Enlever les habits contaminés et les laver avant de les porter de nouveau.

INHALATION: Si une personne en est affectée, l'aider à sortir des lieux. Rétablir la respiration. Aider la personne á rester calme et au chaud.

INGESTION: N'incitez pas la personne á vomir. Aller voir un médecin immédiatement.

Section 5 -- MESURES EN CAS D'INCENDIE

POINT D'ÉCLAIR	LIE	LSE
87 F PMCC	0.7	7.0

CLASSIFICATION D'INFLAMMABILITÉ

ETIQUETTE ROUGE -- Inflammable, point critique en dessous de 38 C (100 degré F)

MOYENS D'EXTINCTION

Dioxyde de carbone, produit chimique sec, mousse

Suite à la page 3

DANGERS D'INCENDIE OU D'EXPLOSION EXCEPTIONNELS

Les contenants fermés peuvent exploser s'ils sont exposés à une très grande chaleur.

L'application aux surfaces chaudes exige qu'on prenne des précautions spéciales.

En cas d'urgence, une exposition excessive aux produits de décomposition peut constituer un danger pour la santé. Les symptômes peuvent ne pas se manifester immédiatement. Voir le médecin.

MESURES PARTICULIÉRES DI PROTECTION CONTRE L'INCENDIE

On doit utiliser l'équipement de protection complète y compris un appareil de respiration auto-alimenté.

La pulvérisation avec de l'eau peut être inefficace. Si on se sert de l'eau, l'ajutage pour brume est préférable. On peut se servir de l'eau pour refroidir les contenants fermés afin d'empêcher l'augmentation de la pression et la possibilité d'une combustion automatique ou l'explosion en cas d'exposition à une chaleur extrêmement grande.

Section 6 -- MARCHE Á SUIVRE EN CAS DE DÉVERSEMENT ACCIDENTEL

MESURES À PRENDRE LORSQUE DES MATIÉRES SONT RENVERSÉES OU ÉVAPORÉES

Enlever toute source de combustion. Bien aérer.

Nettoyer avec un absorbant non réactif.

Section 7 -- MANUTENTION ET ENTREPOSAGE

CATÉGORIE D'ENTREPOSAGE

U.S. DOL Storage Class IC

PRÉCAUTIONS Á PRENDRE LORS DE L'ENTREPOSAGE DI LA MANIPULATION

CONTENU INFLAMMABLE. Tenir loin de la chaleur, des étincelles et de la flamme nue.

Aucours de l'utilisation de ce produit jusqu'à la disparution de toutes les vapeurs: Garder l'endroit bien aéré. Éviter de fumer. Eteindre toute flamme, veilleuse d'appareils et réchauds. Couper la courant des poêles, des outils et appareils éléctriques ainsi que de toute autre source de combustion.

Suivre les procédures approuvées pour attacher solidement et pour permettre l'écoulement de l'éléctricité dans le sol.

Garder le contenant fermé lorsqu'il n'est pas en usage. Transvaser seulement dans des contenants approuvés et ayant des étiquettes complètes et convenables. Ne pas avaler. Garder hors de la portée des enfants.

Suite à la page 4

Section 8 -- CONTRÔLE DE L'EXPOSITION ET PROTECTION INDIVIDUELLE

PRÉCAUTIONS À PRENDRE AUCOURS DE L'UTILISATION

N'utiliser ce produit que dans un endroit bien aéré.

Éviter tout contact avec la peau et les yeux. Eviter d'aspirer les vapeurs et la brume de vaporisation.

Bien se laver les mains après l'utilisation.

Ce produit peut contenir des matières classifiées comme petites particules irritantes, telles que le dioxyde de titane ou le carbonate de calcium (voir la liste ACGIH TLV, la préface et l'annexe D). On peut avoir ces particules dans des proportions dangereuses uniquement au moment du grattement et de l'éraflement de la couche séchée. Si la liste dans la 2e section ne fait aucune mention spécifique de la présence des poussières de particules, les limites applicables sont: pour ACGIH TLV 10 mg/m3 (concentration totale de poussière), 3 mg/m3 (fractionée de respiratoire).

VENTILATION

Un système permettant l'échappement local des produits est préférable. Si l'exposition aux produits de la 2e section est maintenue au-dessous des limites d'exposition applicables, le système d'échappement global est acceptable.

PROTECTION DES VOIES RESPIRATOIRES

Si on ne peut pas maintenir, par simple ventilation, le niveau auquel on s'expos personnellement en dessous des limites applicables, porter un respirateur à filtre de vapeur organique et particules approprié et bien ajusté approuvé par NIOSH/MSHA pour se protéger contre les produits de la 2e section.

Aucours du ponçage, du nettoyage à la brosse métallique, de même qu'en frottant, en brulant, en brasant ou en soudant la couche sèche, il est recommandé de porter un respirateur à filtre de particules, approuvé par NIOSH/MSHA afin de se protéger contre les produits non volatils de la 2e section.

GANTS PROTECTEURS

Porter les gants recommandés par le fournisseur de gants pour se protéger contre les produits de la 2e section.

LUNETTES DE SÉCURITÉ

Porter les lunetttes de sécurité avec des protecteurs latéraux non perforés.

AUTRES PRÉCAUTIONS

L'utilisation inappropriée de ce produit en le concentrant et en l'aspirant intentionnellement peut être dangereuse ou peut même causer la mort.

Suite à la page 5

Section 9 -- PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

POIDS DU PRODUIT	11.44 lb/gal	1370 g/l
DENSITÉ	1.38	
COURBE D'ÉBULLITION	277 - 360 F	136 - 182 C
POINT DE FUSION	P.D.	
VOLUME VOLATIL	57 %	
VITESSE D'ÉVAPORATION	Plus lent que l'Éther	
DENSITÉ DE LA VAPEUR	Plus lourd que l'Air	
SOLUBILITÉ DANS L'EAU	P.D.	

COMPOSÉS ORGANIQUES VOLATILS (Théorique)

4.12 lb/gal	494 g/l	Moins d'eau et de Solvants Exemptés
4.12 lb/gal	494 g/l	Émis COV

Section 10 -- STABILITÉ ET RÉACTIVITÉ

STABILITÉ -- Stable

CONDITIONS À ÉVITER

Aucun connu.

INCOMPATIBILITÉ

Aucun connu.

PRODUITS DANGEREUX DÛ À LA DÉCOMPOSITION

Par combustion: Dioxyde de carbone, monoxyde de carbone, oxydes des métaux de la 2e section

POLYMÉRISATION DANGEREUSE

Ne Peut Pas De Produire

Section 11 -- DONNÉES TOXICOLOGIQUES

RISQUES DE SANTÉ CHRONIQUES

À partir de données expérimentales provenant d'études suffisantes mendées chez les animaux et d'études insuffisantes menées chez humains, l'éthylbenzène est classifié par le CIRC comme étant possiblement carcinogène chez les humains (group 2B). On a constaté une augmentation de certains types de cancer, y compris des tumeurs du rein chez les rats et des tumeurs du poumon et du foie chez les souris, lorsque ces animaux ont été exposés à l'inhalation de concentrations élevées d'éthylbenzène à long terme. Toutefois, ces effets n'ont pas étéobservés chez les animaux exposés à de plus faibles concentrations d'éthylbenzène. Jusqu'à présent il n'y a aucune preuve suggérant que l'éthylbenzène provoque le cancer chez les humains.

Le carbone noir est classifié par l'IARC comme étant possiblement carcinogène aux humains (groupe 2B) basé sur des données animales expérimentales. Cependant, dans les humains, l'évidence de carcinogénéité est insuffisante.

L'exposition, excessive et prolongée, aux solvants de la 2 section peut entrainer demauvaises conséquences aux systèmesdu fois,urinaire etreproductif.

Les rats exposés à la poussière de dioxyde de titanium à une concentrations de 250mg/m3 ont développé le cancer des poumons. Toutefois, on ne peut pas atteindre une telle concentration en milieu du travail.

Il existe des rapports de recherches qui associent des troubles permanentes du cerveau et du système nerveux à l'exposition excessive, répétée et prolongée aux solvants.

Suite à la page 6

INFORMATION TOXICOLOGIQUE

CAS No.	Ingredient				
100-41-4	Éthylbenzène				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		3500 mg/kg
1330-20-7	Xylène				
		LC50	RAT	4HR	5000 ppm
		LD50	RAT		4300 mg/kg
64742-95-6	Solvant Naphta Aliphatique Léger				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
108-67-8	1,3,5-Triméthylbenzène				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
95-63-6	1,2,4-Triméthylbenzène				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
14807-96-6	Talc				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
471-34-1	Carbonate de Calcium				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
7727-43-7	Sulfate de Baryum				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
13463-67-7	Dioxyde de Titane				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
1333-86-4	Noir de Carbone				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible

Section 12 -- DONNÉES ÉCOLOGIQUES

Aucunes donnies disponibles.

Section 13 -- DONNÉES SUR L'ÉLIMINATION DU PRODUIT

MÉTHODE D'ÉLIMINATION DES DÉCHETS

Les déchets provenant de ce produit peuvent être dangereux, selon la définition donnée dans la "U.S. Resource Conservation and Recovery Act" (RCRA) 40 CFR 261.

On doit soumettre les déchets au test de combustion et d'extraction pour déterminer les numéros de l'EPA applicables.

Incinérer dans un endroit approuvé. Ne pas incinérer les contenants fermés. Respecter les lois anti-pollution fédérales, provinciales et municipales.

Section 14 -- DONNÉES SUR LE TRANSPORT

Aucunes donnies disponibles.

Suite à la page 7

Section 15 -- DONNÉES SUR LA RÉGLEMENTATION

SARA 313 (40 CFR 372.65C) AVIS DE FOURNISSEUR

CAS No.	CHIMIQUE/COMPOSÉ	% by WT	% Element
100-41-4	Éthylbenzène	3	
1330-20-7	Xylène	19	
95-63-6	1,2,4-Triméthylbenzène	5	
	Barium Compound	5	3.0

CALIFORNIA PROPOSITION 65

AVERTISSEMENT: Ce produit des matières chimiques connue de l'État de la Californie qui peut causer le cancer, dommages à la naissance ou autre malformation congénitale.

DONNÉES SUR LA TSCA

Tous les produits chimiques dans ce produit sont énumérés, ou exemptez de l'énumération, sur le inventaire de TSCA.

Section 16 -- AUTRES DONNÉES

Cette FTSS a été préparée conformént aux exigences du SIMDUT; les données sont toutefois présentées sous 16 rubriques.

Les renseignements donnés ci-haut se rapportent à ce produit suivant sa formule actuelle et s'appuient sur les données disponibles en ce moment. L'addition de diluant et autres additifs peut changer considérablement les risques associés à ce produit et sa composition. Etant donné que nous n'avons pas de contrôle sur les conditions d'utilisation, nous ne donnons aucune guarantie, explicite ou implicite et nous n'assumons aucune responsabilité concernant l'usage, quel qu'il soit, de ces renseignements.

MATERIAL SAFETY DATA SHEET

K08303
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

K08303

HMIS CODES

Health	2*
Flammability	3
Reactivity	0

PRODUCT NAME

KRYLON* LINE-UP* Striping Paint (Solvent Based), Firelane Red

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
06-JAN-07

INFORMATION TELEPHONE NO.
(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
10	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
10	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
14	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
8	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.1	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
17	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
22	471-34-1	Calcium Carbonate				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	15	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.45 lb/gal	892 g/l
SPECIFIC GRAVITY	0.90	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 42.35% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name					
74-98-6	Propane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
64742-89-8	V. M. & P. Naphtha					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
471-34-1	Calcium Carbonate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	0.1	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

K08303
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

K08303

HMIS CODES

Health	2*
Flammability	3
Reactivity	0

PRODUCT NAME

KRYLON* LINE-UP* Striping Paint (Solvent Based), Firelane Red

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
06-JAN-07

INFORMATION TELEPHONE NO.
(800) 247-3266

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% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
10	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
10	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
14	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
8	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.1	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
17	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
22	471-34-1	Calcium Carbonate				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	15	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

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VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.45 lb/gal	892 g/l
SPECIFIC GRAVITY	0.90	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 42.35% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

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Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name					
74-98-6	Propane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
64742-89-8	V. M. & P. Naphtha					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
471-34-1	Calcium Carbonate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	0.1	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

K08303
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

K08303

HMIS CODES

Health	2*
Flammability	3
Reactivity	0

PRODUCT NAME

KRYLON* LINE-UP* Striping Paint (Solvent Based), Firelane Red

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
06-JAN-07

INFORMATION TELEPHONE NO.
(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
10	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
10	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
14	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
8	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.1	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
17	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
22	471-34-1	Calcium Carbonate				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	15	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.45 lb/gal	892 g/l
SPECIFIC GRAVITY	0.90	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 42.35% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name					
74-98-6	Propane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
64742-89-8	V. M. & P. Naphtha					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
471-34-1	Calcium Carbonate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	0.1	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

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EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
06-JAN-07

INFORMATION TELEPHONE NO.
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			OSHA PEL	800	ppm	
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			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
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			OSHA PEL	1000	ppm	
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Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

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Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

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None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.45 lb/gal	892 g/l
SPECIFIC GRAVITY	0.90	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 42.35% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

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TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name					
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		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
64742-89-8	V. M. & P. Naphtha					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
471-34-1	Calcium Carbonate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	0.1	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

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This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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FICHE SIGNALÉTIQUE SANTÉ–SÉCURITÉ

49200
02 00

Section 1 –– IDENTIFICATION DU PRODUIT ET DE LA SOCIÉTÉ

NUMÉRO DU PRODUIT

49200

Santé	2*
Inflammabilité	3
Réactivité	0

NOM DU PRODUIT

KRYLON* TOUGH COAT* Acrylic Aerosol Paint, Gloss White

NOM DU FABRICANT

THE SHERWIN–WILLIAMS COMPANY
KRYLON Products Group
Cleveland, OH 44115

NO. DE TÉLÉPHONE EN CAS D'URGENCE

(216) 566–2917

DATE DE PRÉPARATION

24–FEB–07

NO. DE TÉLÉPHONE ORDINAIRE

(800) 832–2541

Section 2 –– COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

% EN POIDS	CAS No.	INGREDIENT			UNITÉS	PRESSION VAPEUR
15	74–98–6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
7	106–97–8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
4	64742–89–8	Solvant Naphta Aliphatique Léger				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
10	108–88–3	Toluène				
			ACGIH TLV	50	ppm (Peau)	22 mm
			OSHA PEL	100	ppm (Peau)	
			OSHA PEL	150	ppm (Peau) STEL	
0.4	100–41–4	Éthylbenzène				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
2	1330–20–7	Xylène				
			ACGIH TLV	100	ppm	5.9 mm
			ACGIH TLV	150	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	150	ppm STEL	
32	67–64–1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
4	108–10–1	Méthylisobutylcétone				
			ACGIH TLV	50	ppm	16 mm
			ACGIH TLV	75	ppm STEL	
			OSHA PEL	50	ppm	
			OSHA PEL	75	ppm STEL	

Suite à la page 2

7	13463-67-7	Dioxyde de Titane			
		ACGIH TLV	10	mg/m3	de poussiére
		OSHA PEL	10	mg/m3	total de polva
		OSHA PEL	5	mg/m3	fracción respirable

Section 3 -- IDENTIFICATION DES RISQUES

SOURCES D'EXPOSITION

L'exposition peut se produire par l'INHALATION des vapeurs ou du brouillard de pulvérisation.

La PEAU et les YEUX peuvent entrer en contact avec le produit, les vapeurs ou le brouillard de pulvérisation.

EFFET DE LA SUREXPOSITION

YEUX: Irritation des YEUX.

PEAU: L'exposition prolongée ou répétée risque de provoquer l'irritation des peau.

INHALATION: Irritation des voies respiratoires supérieures.

Peut causer la dépression nerveuse. Une sur-exposition excessive à ce produit peut entrainer la perte de conscience, voire même la mort.

SYMPTÔMES DE SUREXPOSITION

Les maux de tête, l'étourdissement, la nausée et la perte de coordination des mouvements sont tous des symptômes d'exposition excessive aux vapeurs ou à la brume de pulvérisation.

La rougeur et les démangeaisons ou la sensation de brûlure peuvent indiquer une exposition excessive des yeux ou de la peau.

ETAT DE SANTÉ AGGRAVÉ PAR EXPOSITION

En général, aucun exposition n'est reconnue.

CANCÉROGÉNICITÉ

Voir la Section 11.

Section 4 -- PREMIERS SOINS

YEUX: Rincer les yeux à grande eau pendant 15 minutes.
Aller voir un médecin.

PEAU: Laver à fond les parties affectées avec de l'eau et du savon.
Enlever les habits contaminés et les laver avant de les porter de nouveau.

INHALATION: Si une personne en est affectée, l'aider à sortir des lieux. Rétablir la respiration. Aider la personne á rester calme et au chaud.

INGESTION: N'incitez pas la personne á vomir.
Aller voir un médecin immédiatement.

Section 5 -- MESURES EN CAS D'INCENDIE

POINT D'ÉCLAIR	LIE	LSE
Propellant < 0 F	0.9	12.8

MOYENS D'EXTINCTION

Dioxyde de carbone, produit chimique sec, mousse

Suite à la page 3

DANGERS D'INCENDIE OU D'EXPLOSION EXCEPTIONNELS

Les contenants peuvent exploser s'ils sont exposés à une très grande chaleur.

L'application aux surfaces chaudes exige qu'on prenne des précautions spéciales.

En cas d'urgence, une exposition excessive aux produits de décomposition peut constituer un danger pour la santé. Les symptômes peuvent ne pas se manifester immédiatement. Voir le médecin.

MESURES PARTICULIÉRES DI PROTECTION CONTRE L'INCENDIE

On doit utiliser l'équipement de protection complète y compris un appareil de respiration auto-alimenté.

La pulvérisation avec de l'eau peut être inefficace. Si on se sert de l'eau, l'ajutage pour brume est préférable. On peut se servir de l'eau pour refroidir les contenants fermés afin d'empêcher l'augmentation de la pression et la possibilité d'une combustion automatique ou l'explosion en cas d'exposition à une chaleur extrêmement grande.

Section 6 -- MARCHE Á SUIVRE EN CAS DE DÉVERSEMENT ACCIDENTEL

MESURES À PRENDRE LORSQUE DES MATIÉRES SONT RENVERSÉES OU ÉVAPORÉES

Enlever toute source de combustion. Bien aérer.

Nettoyer avec un absorbant non réactif.

Section 7 -- MANUTENTION ET ENTREPOSAGE

CATÉGORIE D'ENTREPOSAGE

Pas Disponible

PRÉCAUTIONS Á PRENDRE LORS DE L'ENTREPOSAGE DI LA MANIPULATION

Tenir loin de la chaleur, étincelles et de flamme nue. Les vapeurs peuvent s'accumuler rapidement et s'enflammer et causer une explosion.

Aucours de l'utilisation de ce produit jusqu'à la disparution de toutes les vapeurs: Garder l'endroit bien aéré. Éviter de fumer. Eteindre toute flamme, veilleuse d'appareils et réchauds. Couper la courant des poêles, des outils et appareils éléctriques ainsi que de toute autre source de combustion.

Suivre les procédures approuvées pour attacher solidement et pour permettre l'écoulement de l'éléctricité dans le sol.

Contenu sous pression. Ne pas ouvrir, incinérer ou exposer à des températures au dessus de 120 Fahrenheit. La chaleur des rayons du soleil, des radiateurs, des réchauds, de l'eau chaude, ou provenant de toute autre source, peut provoquer l'explosion du contenant. Ne pas avaler. Garder hors de la portée des enfants.

Suite à la page 4

Section 8 -- CONTRÔLE DE L'EXPOSITION ET PROTECTION INDIVIDUELLE

PRÉCAUTIONS À PRENDRE AUCOURS DE L'UTILISATION

N'utiliser ce produit que dans un endroit bien aéré.

Éviter tout contact avec la peau et les yeux. Eviter d'aspirer les vapeurs et la brume de vaporisation.

Bien se laver les mains après l'utilisation.

Ce produit peut contenir des matières classifiées comme petites particules irritantes, telles que le dioxyde de titane ou le carbonate de calcium (voir la liste ACGIH TLV, la préface et l'annexe D). On peut avoir ces particules dans des proportions dangereuses uniquement au moment du grattement et de l'éraflement de la couche séchée. Si la liste dans la 2e section ne fait aucune mention spécifique de la présence des poussières de particules, les limites applicables sont: pour ACGIH TLV 10 mg/m3 (concentration totale de poussière), 3 mg/m3 (fractionée de respiratoire).

VENTILATION

Un système permettant l'échappement local des produits est préférable. Si l'exposition aux produits de la 2e section est maintenue au-dessous des limites d'exposition applicables, le système d'échappement global est acceptable.

PROTECTION DES VOIES RESPIRATOIRES

Si on ne peut pas maintenir, par simple ventilation, le niveau auquel on s'expos personnellement en dessous des limites applicables, porter un respirateur à filtre de vapeur organique et particules approprié et bien ajusté approuvé par NIOSH/MSHA pour se protéger contre les produits de la 2e section.

Pendant que vous frottez ou poncez la couche sechée, porter un respirateur à filtre de poussière et de brume, approuvé par NIOSH/MSHA pour vous protéger contre la poussière qui peut éventuellement se dégager de ce produit, de la peinture ou de l'abrasif.

GANTS PROTECTEURS

Aucun n'est exigé pour l'application normale des produits aérosol, lorsqu'on n'attend qu'un minimum de contact avec la peau. Pour un contact prolongé et repété, portez des gants resistants aux produits chimiques.

LUNETTES DE SÉCURITÉ

Porter les lunetttes de sécurité avec des protecteurs latéraux non perforés.

AUTRES PRÉCAUTIONS

L'utilisation inappropriée de ce produit en le concentrant et en l'aspirant intentionnellement peut être dangereuse ou peut même causer la mort.

Section 9 -- PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

POIDS DU PRODUIT	6.68 lb/gal 800 g/l
DENSITÉ	0.80
COURBE D'ÉBULLITION	<0 - 325 F <-18 - 162 C
POINT DE FUSION	P.D.
VOLUME VOLATIL	87 %
VITESSE D'ÉVAPORATION	Plus vite que l'Éther
DENSITÉ DE LA VAPEUR	Plus lourd que l'Air
SOLUBILITÉ DANS L'EAU	P.D.
pH	7.0

Suite à la page 5

COMPOSÉS ORGANIQUES VOLATILS (Théorique)
Volatil Poids 44.90% Moins d'eau et de solvants exemptés

Section 10 -- STABILITÉ ET RÉACTIVITÉ

STABILITÉ -- Stable

CONDITIONS À ÉVITER

Aucun connu.

INCOMPATIBILITÉ

Aucun connu.

PRODUITS DANGEREUX DÛ À LA DÉCOMPOSITION

Par combustion: Dioxyde de carbone, monoxyde de carbone

POLYMÉRISATION DANGEREUSE

Ne Peut Pas De Produire

Section 11 -- DONNÉES TOXICOLOGIQUES

RISQUES DE SANTÉ CHRONIQUES

À partir de données expérimentales provenant d'études suffisantes mendées chez les animaux et d'études insuffisantes menées chez humains, l'éthylbenzène est classifié par le CIRC comme étant possiblement carcinogène chez les humains (group 2B). On a constaté une augmentation de certains types de cancer, y compris des tumeurs du rein chez les rats et des tumeurs du poumon et du foie chez les souris, lorsque ces animaux ont été exposés à l'inhalation de concentrations élevées d'éthylbenzène à long terme. Toutefois, ces effets n'ont pas étéobservés chez les animaux exposés à de plus faibles concentrations d'éthylbenzène. Jusqu'à présent il n'y a aucune preuve suggérant que l'éthylbenzène provoque le cancer chez les humains.

L'exposition, excessive et prolongée, aux solvants de la 2 section peut entrainer demauvaises conséquences aux systèmesdu fois,urinaire,cardio-vasculaire etreproductif.

Les rats exposés à la poussière de dioxyde de titanium à une concentrations de 250mg/m3 ont développé le cancer des poumons. Toutefois, on ne peut pas atteindre une telle concentration en milieu du travail.

Il existe des rapports de recherches qui associent des troubles permanentes du cerveau et du système nerveux à l'exposition excessive, répétée et prolongée aux solvants.

INFORMATION TOXICOLOGIQUE

Suite à la page 6

CAS No.	Ingredient				
74-98-6	Propane				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
106-97-8	Butane				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
64742-89-8	Solvant Naphta Aliphatique Léger				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
108-88-3	Toluène				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
100-41-4	Éthylbenzène				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		3500 mg/kg
1330-20-7	Xylène				
		LC50	RAT	4HR	5000 ppm
		LD50	RAT		4300 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		5800 mg/kg
108-10-1	Méthylisobutylcétone				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		2080 mg/kg
13463-67-7	Dioxyde de Titane				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible

Section 12 -- DONNÉES ÉCOLOGIQUES

Aucunes donnies disponibles.

Section 13 -- DONNÉES SUR L'ÉLIMINATION DU PRODUIT

MÉTHODE D'ÉLIMINATION DES DÉCHETS

Les déchets provenant de ce produit peuvent être dangereux, selon la définition donnée dans la "U.S. Resource Conservation and Recovery Act" (RCRA) 40 CFR 261.

On doit soumettre les déchets au test de combustion afin de déterminer les numéros de l'EPA applicables.

Ne pas incinérer. Éliminer la pression dans le contenant. Se débarrasser du contenu confermément aux lois anti-pollution fédérales, provinciales et municipales.

Section 14 -- DONNÉES SUR LE TRANSPORT

Aucunes donnies disponibles.

Suite à la page 7

Section 15 -- DONNÉES SUR LA RÉGLEMENTATION

SARA 313 (40 CFR 372.65C) AVIS DE FOURNISSEUR

CAS No.	CHIMIQUE/COMPOSÉ	% by WT	% Element
108-88-3	Toluène	10	
100-41-4	Éthylbenzène	0.3	
1330-20-7	Xylène	2	
108-10-1	Méthylisobutylcétone	4	

DONNÉES SUR LA TSCA

Tous les produits chimiques dans ce produit sont énumérés, ou exemptez de l'énumération, sur le inventaire de TSCA.

Section 16 -- AUTRES DONNÉES

Cette FTSS a été préparée conformént aux exigences du SIMDUT; les données sont toutefois présentées sous 16 rubriques.

Les renseignements donnés ci-haut se rapportent à ce produit suivant sa formule actuelle et s'appuient sur les données disponibles en ce moment. L'addition de diluant et autres additifs peut changer considérablement les risques associés à ce produit et sa composition. Etant donné que nous n'avons pas de contrôle sur les conditions d'utilisation, nous ne donnons aucune guarantie, explicite ou implicite et nous n'assumons aucune responsabilité concernant l'usage, quel qu'il soit, de ces renseignements.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
49219	06-SEP-07	Flammability	3
		Reactivity	0

PRODUCT NAME
KRYLON® RUST TOUGH® Rust Preventive Enamel (aerosol), Flat White

MANUFACTURER'S NAME
SHERWIN-WILLIAMS CANADA INC.
KRYLON Products Group
Vaughan, ON L4K 4T8

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 832-2541
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)
(800) 424-9300

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
15	74-98-6	Propane				
			ACGIH	TLV 2500	ppm	760 mm
			OSHA	PEL 1000	ppm	
7	106-97-8	Butane				
			ACGIH	TLV 800	ppm	760 mm
			OSHA	PEL 800	ppm	
4	64742-89-8	V. M. & P. Naphtha				
			ACGIH	TLV 300	ppm	12 mm
			OSHA	PEL 300	ppm	
			OSHA	PEL 400	ppm STEL	
11	108-88-3	Toluene				
			ACGIH	TLV 20	ppm	22 mm
			OSHA	PEL 100	ppm (Skin)	
			OSHA	PEL 150	ppm (Skin) STEL	
0.2	100-41-4	Ethylbenzene				
			ACGIH	TLV 100	ppm	7.1 mm
			ACGIH	TLV 125	ppm STEL	
			OSHA	PEL 100	ppm	
			OSHA	PEL 125	ppm STEL	
32	67-64-1	Acetone				
			ACGIH	TLV 500	ppm	180 mm
			ACGIH	TLV 750	ppm STEL	
			OSHA	PEL 1000	ppm	

Continued on page 2

4	108-10-1	Methyl Isobutyl Ketone				
		ACGIH TLV	50	ppm		16 mm
		ACGIH TLV	75	ppm STEL		
		OSHA PEL	50	ppm		
		OSHA PEL	75	ppm STEL		
2	112926-00-8	Amorphous Precipitated Silica				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	6	mg/m3 as Dust		
7	13463-67-7	Titanium Dioxide				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	10	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam

Continued on page 3

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Continued on page 4

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.72 lb/gal	804 g/l
SPECIFIC GRAVITY	0.81	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	87 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 44.07% Less Water and Federally Exempt Solvents

Continued on page 5

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 6

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	V. M. & P. Naphtha				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
100-41-4	Ethylbenzene				
		LC50	RAT	4HR	Not Available
		LD50	RAT		3500 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
108-10-1	Methyl Isobutyl Ketone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		2080 mg/kg
112926-00-8	Amorphous Precipitated Silica				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 7

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	11	
100-41-4	Ethylbenzene	0.1	
108-10-1	Methyl Isobutyl Ketone	4	

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

FICHE SIGNALÉTIQUE SANTÉ-SÉCURITÉ

460505
02 00

Section 1 -- IDENTIFICATION DU PRODUIT ET DE LA SOCIÉTÉ

NUMÉRO DU PRODUIT
460505

DATE DE PRÉPARATION
29-SEP-07

Santé	2*
Inflammabilité	3
Réactivité	0

NOM DU PRODUIT
COLOUR ALL Spray Paint, Gloss Black

NOM DU FABRICANT
SHERWIN-WILLIAMS CANADA, INC.
DUPLI-COLOR Products Group
Vaughan, ON L4K 4T8

NUMÉROS DE TÉLÉPHONES ET SITES WEB
Renseignements sur le produit
(905) 761-9185
Renseignements réglementaires
(216) 566-2902 www.paintdocs.com
Urgence médicale
(216) 566-2917
Urgence de transport
(800) 424-9300
pour une urgence chimique SEULEMENT (déversement, fuite, incendie, exposition ou accident)

Section 2 -- COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

% EN POIDS	CAS No.	INGREDIENT			UNITÉS	PRESSION VAPEUR
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
21	108-88-3	Toluène				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Peau)	
			OSHA PEL	150	ppm (Peau) STEL	
40	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
3	763-69-9	3-Éthoxypropionate d'éthyle				
			ACGIH TLV	Pas Disponible		1.11 mm
			OSHA PEL	Pas Disponible		
0.4	1333-86-4	Noir de Carbone				
			ACGIH TLV	3.5	mg/m3	
			OSHA PEL	3.5	mg/m3	

Suite à la page 2

Section 3 -- IDENTIFICATION DES RISQUES

SOURCES D'EXPOSITION

L'exposition peut se produire par l'INHALATION des vapeurs ou du brouillard de pulvérisation.

La PEAU et les YEUX peuvent entrer en contact avec le produit, les vapeurs ou le brouillard de pulvérisation.

EFFET DE LA SUREXPOSITION

YEUX: Irritation des YEUX.

PEAU: L'exposition prolongée ou répétée risque de provoquer l'irritation des peau.

INHALATION: Irritation des voies respiratoires supérieures.

Peut causer la dépression nerveuse. Une sur-exposition excessive à ce produit peut entrainer la perte de conscience, voire même la mort.

L'exposition, excessive et prolongée, aux solvants de la 2 section peut entrainer de mauvaises conséquences aux systèmes du fois, urinaire, cardio-vasculaire et reproductif.

SYMPTÔMES DE SUREXPOSITION

Les maux de tête, l'étourdissement, la nausée et la perte de coordination des mouvements sont tous des symptômes d'exposition excessive aux vapeurs ou à la brume de pulvérisation.

La rougeur et les démangeaisons ou la sensation de brûlure peuvent indiquer une exposition excessive des yeux ou de la peau.

ETAT DE SANTÉ AGGRAVÉ PAR EXPOSITION

En général, aucun exposition n'est reconnue.

CANCÉROGÉNICITÉ

Voir la Section 11.

Section 4 -- PREMIERS SOINS

YEUX: Rincer les yeux à grande eau pendant 15 minutes. Aller voir un médecin.

PEAU: Laver à fond les parties affectées avec de l'eau et du savon. Enlever les habits contaminés et les laver avant de les porter de nouveau.

INHALATION: Si une personne en est affectée, l'aider à sortir des lieux. Rétablir la respiration. Aider la personne á rester calme et au chaud.

INGESTION: N'incitez pas la personne á vomir. Aller voir un médecin immédiatement.

Section 5 -- MESURES EN CAS D'INCENDIE

POINT D'ÉCLAIR	LIE	LSE
Propellant < 0 F	1.0	12.8

MOYENS D'EXTINCTION

Dioxyde de carbone, produit chimique sec, mousse

Suite à la page 3

DANGERS D'INCENDIE OU D'EXPLOSION EXCEPTIONNELS

Les contenants peuvent exploser s'ils sont exposés à une très grande chaleur.

L'application aux surfaces chaudes exige qu'on prenne des précautions spéciales.

En cas d'urgence, une exposition excessive aux produits de décomposition peut constituer un danger pour la santé. Les symptômes peuvent ne pas se manifester immédiatement. Voir le médecin.

MESURES PARTICULIÉRES DI PROTECTION CONTRE L'INCENDIE

On doit utiliser l'équipement de protection complète y compris un appareil de respiration auto-alimenté.

La pulvérisation avec de l'eau peut être inefficace. Si on se sert de l'eau, l'ajutage pour brume est préférable. On peut se servir de l'eau pour refroidir les contenants fermés afin d'empêcher l'augmentation de la pression et la possibilité d'une combustion automatique ou l'explosion en cas d'exposition à une chaleur extrêmement grande.

Section 6 -- MARCHE Á SUIVRE EN CAS DE DÉVERSEMENT ACCIDENTEL

MESURES À PRENDRE LORSQUE DES MATIÉRES SONT RENVERSÉES OU ÉVAPORÉES

Enlever toute source de combustion. Bien aérer.

Nettoyer avec un absorbant non réactif.

Section 7 -- MANUTENTION ET ENTREPOSAGE

CATÉGORIE D'ENTREPOSAGE

Pas Disponible

PRÉCAUTIONS Á PRENDRE LORS DE L'ENTREPOSAGE DI LA MANIPULATION

Tenir loin de la chaleur, étincelles et de flamme nue. Les vapeurs peuvent s'accumuler rapidement et s'enflammer et causer une explosion.

Aucours de l'utilisation de ce produit jusqu'à la disparution de toutes les vapeurs: Garder l'endroit bien aéré. Eviter de fumer. Eteindre toute flamme, veilleuse d'appareils et réchauds. Couper la courant des poêles, des outils et appareils éléctriques ainsi que de toute autre source de combustion.

Suivre les procédures approuvées pour attacher solidement et pour permettre l'écoulement de l'éléctricité dans le sol.

Contenu sous pression. Ne pas ouvrir, incinérer ou exposer à des températures au dessus de 120 Fahrenheit. La chaleur des rayons du soleil, des radiateurs, des réchauds, de l'eau chaude, ou provenant de toute autre source, peut provoquer l'explosion du contenant. Ne pas avaler. Garder hors de la portée des enfants.

Suite à la page 4

Section 8 -- CONTRÔLE DE L'EXPOSITION ET PROTECTION INDIVIDUELLE

PRÉCAUTIONS À PRENDRE AUCOURS DE L'UTILISATION

N'utiliser ce produit que dans un endroit bien aéré.

Éviter tout contact avec la peau et les yeux. Eviter d'aspirer les vapeurs et la brume de vaporisation.

Bien se laver les mains après l'utilisation.

Ce produit peut contenir des matières classifiées comme petites particules irritantes, telles que le dioxyde de titane ou le carbonate de calcium (voir la liste ACGIH TLV, la préface et l'annexe D). On peut avoir ces particules dans des proportions dangereuses uniquement au moment du grattement et de l'éraflement de la couche séchée. Si la liste dans la 2e section ne fait aucune mention spécifique de la présence des poussières de particules, les limites applicables sont: pour ACGIH TLV 10 mg/m3 (concentration totale de poussière), 3 mg/m3 (fractionée de respiratoire).

VENTILATION

Un système permettant l'échappement local des produits est préférable. Si l'exposition aux produits de la 2e section est maintenue au-dessous des limites d'exposition applicables, le système d'échappement global est acceptable.

PROTECTION DES VOIES RESPIRATOIRES

Si on ne peut pas maintenir, par simple ventilation, le niveau auquel on s'expos personnellement en dessous des limites applicables, porter un respirateur à filtre de vapeur organique et particules approprié et bien ajusté approuvé par NIOSH/MSHA pour se protéger contre les produits de la 2e section.

Pendant que vous frottez ou poncez la couche sechée, porter un respirateur à filtre de poussière et de brume, approuvé par NIOSH/MSHA pour vous protéger contre la poussière qui peut éventuellement se dégager de ce produit, de la peinture ou de l'abrasif.

GANTS PROTECTEURS

Aucun n'est exigé pour l'application normale des produits aérosol, lorsqu'on n'attend qu'un minimum de contact avec la peau. Pour un contact prolongé et repété, portez des gants resistants aux produits chimiques.

LUNETTES DE SÉCURITÉ

Porter les lunetttes de sécurité avec des protecteurs latéraux non perforés.

AUTRES PRÉCAUTIONS

L'utilisation inappropriée de ce produit en le concentrant et en l'aspirant intentionnellement peut être dangereuse ou peut même causer la mort.

Section 9 -- PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

POIDS DU PRODUIT	6.08 lb/gal 728 g/l
DENSITÉ	0.73
COURBE D'ÉBULLITION	<0 - 342 F <-18 - 172 C
POINT DE FUSION	P.D.
VOLUME VOLATIL	94 %
VITESSE D'ÉVAPORATION	Plus vite que l'Éther
DENSITÉ DE LA VAPEUR	Plus lourd que l'Air
SOLUBILITÉ DANS L'EAU	P.D.
pH	7.0

Suite à la page 5

COMPOSÉS ORGANIQUES VOLATILS (Théorique)
Volatil Poids 51.59% Moins d'eau et de solvants exemptés

Section 10 -- STABILITÉ ET RÉACTIVITÉ

STABILITÉ -- Stable

CONDITIONS À ÉVITER

Aucun connu.

INCOMPATIBILITÉ

Aucun connu.

PRODUITS DANGEREUX DÛ À LA DÉCOMPOSITION

Par combustion: Dioxyde de carbone, monoxyde de carbone

POLYMÉRISATION DANGEREUSE

Ne Peut Pas De Produire

Section 11 -- DONNÉES TOXICOLOGIQUES

RISQUES DE SANTÉ CHRONIQUES

Il existe des rapports de recherches qui associent des troubles permanentes du cerveau et du système nerveux à l'exposition excessive, répétée et prolongée aux solvants.

Le carbone noir est classifié par l'IARC comme étant possiblement carcinogène aux humains (groupe 2B) basé sur des données animales expérimentales. Cependant, dans les humains, l'évidence de carcinogénéité est insuffisante.

INFORMATION TOXICOLOGIQUE

CAS No.	Ingredient					
74-98-6	Propane					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		Pas Disponible	
106-97-8	Butane					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		Pas Disponible	
108-88-3	Toluène					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		5800	mg/kg
763-69-9	3-Éthoxypropionate d'éthyle					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		5000	mg/kg
1333-86-4	Noir de Carbone					
		LC50	RAT	4HR	Pas Disponible	
		LD50	RAT		Pas Disponible	

Section 12 -- DONNÉES ÉCOLOGIQUES

Aucunes donnies disponibles.

Suite à la page 6

Section 13 -- DONNÉES SUR L'ÉLIMINATION DU PRODUIT

MÉTHODE D'ÉLIMINATION DES DÉCHETS

Les déchets provenant de ce produit peuvent être dangereux, selon la définition donnée dans la "U.S. Resource Conservation and Recovery Act" (RCRA) 40 CFR 261.

On doit soumettre les déchets au test de combustion afin de déterminer les numéros de l'EPA applicables.

Ne pas incinérer. Eliminer la pression dans le contenant. Se débarrasser du contenu confermément aux lois anti-pollution fédérales, provinciales et municipales.

Section 14 -- DONNÉES SUR LE TRANSPORT

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Section 15 -- DONNÉES SUR LA RÉGLEMENTATION

SARA 313 (40 CFR 372.65C) AVIS DE FOURNISSEUR

CAS No.	CHIMIQUE/COMPOSÉ	% by WT	% Element
108-88-3	Toluène	21	

DONNÉES SUR LA TSCA

Tous les produits chimiques dans ce produit sont énumérés, ou exemptez de l'énumération, sur le inventaire de TSCA.

Section 16 -- AUTRES DONNÉES

Cette FTSS a été préparée conformént aux exigences du SIMDUT; les données sont toutefois présentées sous 16 rubriques.

Les renseignements donnés ci-haut se rapportent à ce produit suivant sa formule actuelle et s'appuient sur les données disponibles en ce moment. L'addition de diluant et autres additifs peut changer considérablement les risques associés à ce produit et sa composition. Etant donné que nous n'avons pas de contrôle sur les conditions d'utilisation, nous ne donnons aucune guarantie, explicite ou implicite et nous n'assumons aucune responsabilité concernant l'usage, quel qu'il soit, de ces renseignements.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
3201

HMIS CODES
Health 2
Flammability 4
Reactivity 0

PRODUCT NAME
KRYLON* Appliance Epoxy Paint, White

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
KRYLON Products Group
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
24-JAN-06

INFORMATION TELEPHONE NO.
(800) 832-2541

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
18	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
23	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
12	123-86-4	n-Butyl Acetate				
			ACGIH TLV	150	ppm	10 mm
			ACGIH TLV	200	ppm STEL	
			OSHA PEL	150	ppm	
			OSHA PEL	200	ppm STEL	
7	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

Continued on page 2

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Continued on page 3

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Continued on page 4

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.55 lb/gal	784 g/l
SPECIFIC GRAVITY	0.79	
BOILING POINT	<0 - 264 F	<-18 - 128 C
MELTING POINT	Not Available	
VOLATILE VOLUME	89 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
Volatile Weight 57.20 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name					
74-98-6	Propane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
123-86-4	n-Butyl Acetate					
		LC50	RAT	4HR	2000	ppm
		LD50	RAT		13100	mg/kg
13463-67-7	Titanium Dioxide					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	18	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Continued on page 6

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

SF31
03 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	3*
SF31	29-SEP-07	Flammability	3
		Reactivity	0

PRODUCT NAME
Scratch Filler & Primer, Gray

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS CO.
DUPLI-COLOR Products Group
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 247-3270 www.duplicolor.com
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
6	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
2	67-56-1	Methanol				
			ACGIH TLV	200	ppm (Skin)	92 mm
			ACGIH TLV	250	ppm (Skin) STEL	
			OSHA PEL	200	ppm (Skin)	
			OSHA PEL	250	ppm (Skin) STEL	
2	67-63-0	2-Propanol				
			ACGIH TLV	400	ppm	33 mm
			ACGIH TLV	500	ppm STEL	
			OSHA PEL	400	ppm	
			OSHA PEL	500	ppm STEL	
31	78-93-3	Methyl Ethyl Ketone				
			ACGIH TLV	200	ppm	70 mm
			ACGIH TLV	300	ppm STEL	
			OSHA PEL	200	ppm	
			OSHA PEL	300	ppm STEL	
5	108-10-1	Methyl Isobutyl Ketone				
			ACGIH TLV	50	ppm	16 mm
			ACGIH TLV	75	ppm STEL	
			OSHA PEL	50	ppm	
			OSHA PEL	75	ppm STEL	

Continued on page 2

16	763-69-9	Ethyl 3-Ethoxypropionate				
		ACGIH TLV	Not Available			1.11 mm
		OSHA PEL	Not Available			
10	14807-96-6	Talc				
		ACGIH TLV	2	mg/m3 as Resp. Dust		
		OSHA PEL	2	mg/m3 as Resp. Dust		
4	471-34-1	Calcium Carbonate				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	15	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		
6	13463-67-7	Titanium Dioxide				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	10	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Continued on page 3

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
36 F PMCC	1.0	36.5

FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100 F (38 C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Continued on page 4

VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.89 lb/gal	1065 g/l
SPECIFIC GRAVITY	1.07	
BOILING POINT	148 - 342 F	64 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

5.52 lb/gal	661 g/l	Less Water and Federally Exempt Solvents
5.52 lb/gal	661 g/l	Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID
None known.

INCOMPATIBILITY
None known.

HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION
Will not occur

Continued on page 5

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name					
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
67-56-1	Methanol					
		LC50	RAT	4HR	64000	ppm
		LD50	RAT		5630	mg/kg
67-63-0	2-Propanol					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5045	mg/kg
78-93-3	Methyl Ethyl Ketone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		2740	mg/kg
108-10-1	Methyl Isobutyl Ketone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		2080	mg/kg
763-69-9	Ethyl 3-Ethoxypropionate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5000	mg/kg
14807-96-6	Talc					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
471-34-1	Calcium Carbonate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
13463-67-7	Titanium Dioxide					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Continued on page 6

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl methyl ketone 5000 lb RQ
Toluene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, 3, PG II, (ERG#128)

Canada (TDG)

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG II, MARINE POLLUTANT, (2 C c.c.), (TRICRESYL PHOSPHATE), EmS F-E, S-E

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	6	
67-56-1	Methanol	2	
108-10-1	Methyl Isobutyl Ketone	5	
	Zinc Compound	2	0.6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Continued on page 7

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

SF31
03 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	3*
SF31	29-SEP-07	Flammability	3
		Reactivity	0

PRODUCT NAME
Scratch Filler & Primer, Gray

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS CO.
DUPLI-COLOR Products Group
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 247-3270 www.duplicolor.com
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
6	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
2	67-56-1	Methanol				
			ACGIH TLV	200	ppm (Skin)	92 mm
			ACGIH TLV	250	ppm (Skin) STEL	
			OSHA PEL	200	ppm (Skin)	
			OSHA PEL	250	ppm (Skin) STEL	
2	67-63-0	2-Propanol				
			ACGIH TLV	400	ppm	33 mm
			ACGIH TLV	500	ppm STEL	
			OSHA PEL	400	ppm	
			OSHA PEL	500	ppm STEL	
31	78-93-3	Methyl Ethyl Ketone				
			ACGIH TLV	200	ppm	70 mm
			ACGIH TLV	300	ppm STEL	
			OSHA PEL	200	ppm	
			OSHA PEL	300	ppm STEL	
5	108-10-1	Methyl Isobutyl Ketone				
			ACGIH TLV	50	ppm	16 mm
			ACGIH TLV	75	ppm STEL	
			OSHA PEL	50	ppm	
			OSHA PEL	75	ppm STEL	

Continued on page 2

16	763-69-9	Ethyl 3-Ethoxypropionate				
		ACGIH TLV	Not Available			1.11 mm
		OSHA PEL	Not Available			
10	14807-96-6	Talc				
		ACGIH TLV	2	mg/m3 as Resp. Dust		
		OSHA PEL	2	mg/m3 as Resp. Dust		
4	471-34-1	Calcium Carbonate				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	15	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		
6	13463-67-7	Titanium Dioxide				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	10	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Continued on page 3

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
36 F PMCC	1.0	36.5

FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100 F (38 C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Continued on page 4

VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.89 lb/gal	1065 g/l
SPECIFIC GRAVITY	1.07	
BOILING POINT	148 - 342 F	64 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

5.52 lb/gal	661 g/l	Less Water and Federally Exempt Solvents
5.52 lb/gal	661 g/l	Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID
None known.

INCOMPATIBILITY
None known.

HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION
Will not occur

Continued on page 5

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name					
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
67-56-1	Methanol					
		LC50	RAT	4HR	64000	ppm
		LD50	RAT		5630	mg/kg
67-63-0	2-Propanol					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5045	mg/kg
78-93-3	Methyl Ethyl Ketone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		2740	mg/kg
108-10-1	Methyl Isobutyl Ketone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		2080	mg/kg
763-69-9	Ethyl 3-Ethoxypropionate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5000	mg/kg
14807-96-6	Talc					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
471-34-1	Calcium Carbonate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
13463-67-7	Titanium Dioxide					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Continued on page 6

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl methyl ketone 5000 lb RQ
Toluene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, 3, PG II, (ERG#128)

Canada (TDG)

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG II, MARINE POLLUTANT, (2 C c.c.), (TRICRESYL PHOSPHATE), EmS F-E, S-E

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	6	
67-56-1	Methanol	2	
108-10-1	Methyl Isobutyl Ketone	5	
	Zinc Compound	2	0.6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Continued on page 7

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

SF31
03 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	3*
SF31	29-SEP-07	Flammability	3
		Reactivity	0

PRODUCT NAME
Scratch Filler & Primer, Gray

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS CO.
DUPLI-COLOR Products Group
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 247-3270 www.duplicolor.com
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
6	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
2	67-56-1	Methanol				
			ACGIH TLV	200	ppm (Skin)	92 mm
			ACGIH TLV	250	ppm (Skin) STEL	
			OSHA PEL	200	ppm (Skin)	
			OSHA PEL	250	ppm (Skin) STEL	
2	67-63-0	2-Propanol				
			ACGIH TLV	400	ppm	33 mm
			ACGIH TLV	500	ppm STEL	
			OSHA PEL	400	ppm	
			OSHA PEL	500	ppm STEL	
31	78-93-3	Methyl Ethyl Ketone				
			ACGIH TLV	200	ppm	70 mm
			ACGIH TLV	300	ppm STEL	
			OSHA PEL	200	ppm	
			OSHA PEL	300	ppm STEL	
5	108-10-1	Methyl Isobutyl Ketone				
			ACGIH TLV	50	ppm	16 mm
			ACGIH TLV	75	ppm STEL	
			OSHA PEL	50	ppm	
			OSHA PEL	75	ppm STEL	

Continued on page 2

16	763-69-9	Ethyl 3-Ethoxypropionate				
		ACGIH TLV	Not Available			1.11 mm
		OSHA PEL	Not Available			
10	14807-96-6	Talc				
		ACGIH TLV	2	mg/m3 as Resp. Dust		
		OSHA PEL	2	mg/m3 as Resp. Dust		
4	471-34-1	Calcium Carbonate				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	15	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		
6	13463-67-7	Titanium Dioxide				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	10	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Continued on page 3

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
36 F PMCC	1.0	36.5

FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100 F (38 C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Continued on page 4

VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.89 lb/gal	1065 g/l
SPECIFIC GRAVITY	1.07	
BOILING POINT	148 - 342 F	64 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

5.52 lb/gal	661 g/l	Less Water and Federally Exempt Solvents
5.52 lb/gal	661 g/l	Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID
None known.

INCOMPATIBILITY
None known.

HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION
Will not occur

Continued on page 5

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name					
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
67-56-1	Methanol					
		LC50	RAT	4HR	64000	ppm
		LD50	RAT		5630	mg/kg
67-63-0	2-Propanol					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5045	mg/kg
78-93-3	Methyl Ethyl Ketone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		2740	mg/kg
108-10-1	Methyl Isobutyl Ketone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		2080	mg/kg
763-69-9	Ethyl 3-Ethoxypropionate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5000	mg/kg
14807-96-6	Talc					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
471-34-1	Calcium Carbonate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
13463-67-7	Titanium Dioxide					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Continued on page 6

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl methyl ketone 5000 lb RQ
Toluene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, 3, PG II, (ERG#128)

Canada (TDG)

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG II, MARINE POLLUTANT, (2 C c.c.), (TRICRESYL PHOSPHATE), EmS F-E, S-E

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	6	
67-56-1	Methanol	2	
108-10-1	Methyl Isobutyl Ketone	5	
	Zinc Compound	2	0.6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Continued on page 7

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

FICHE SIGNALÉTIQUE SANTÉ-SÉCURITÉ

B5WV1014
01 00

Section 1 -- IDENTIFICATION DU PRODUIT ET DE LA SOCIÉTÉ

NUMÉRO DU PRODUIT

B5WV1014

Santé	1*
Inflammabilité	0
Réactivité	0

NOM DU PRODUIT

Interior Latex Flat Paint, Antique White

NOM DU FABRICANT

THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

NO. DE TÉLÉPHONE EN CAS D'URGENCE

(216) 566-2917

DATE DE PRÉPARATION

18-APR-07

NO. DE TÉLÉPHONE ORDINAIRE

(216) 566-2902

Section 2 -- COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

% EN POIDS	CAS No.	INGREDIENT	UNITÉS		PRESSION VAPEUR
0.3	14808-60-7	Quartz			
		ACGIH TLV	0.05	mg/m3	de resp. poussiére
		OSHA PEL	0.1	mg/m3	de resp. poussiére
3	14464-46-1	Cristobalite			
		ACGIH TLV	0.05	mg/m3	de resp. poussiére
		OSHA PEL	0.05	mg/m3	de resp. poussiére
7	1332-58-7	Kaolin			
		ACGIH TLV	2	mg/m3	de resp. poussiére
		OSHA PEL	10	mg/m3	total de polva
		OSHA PEL	5	mg/m3	fracción respirable
4	14807-96-6	Talc			
		ACGIH TLV	2	mg/m3	de resp. poussiére
		OSHA PEL	2	mg/m3	de resp. poussiére
6	471-34-1	Carbonate de Calcium			
		ACGIH TLV	10	mg/m3	de poussiére
		OSHA PEL	15	mg/m3	total de polva
		OSHA PEL	5	mg/m3	fracción respirable
7	13463-67-7	Dioxyde de Titane			
		ACGIH TLV	10	mg/m3	de poussiére
		OSHA PEL	10	mg/m3	total de polva
		OSHA PEL	5	mg/m3	fracción respirable

Section 3 -- IDENTIFICATION DES RISQUES

SOURCES D'EXPOSITION

L'exposition peut se produire par l'INHALATION des vapeurs ou du brouillard de pulvérisation.

La PEAU et les YEUX peuvent entrer en contact avec le produit, les vapeurs ou le brouillard de pulvérisation.

Suite à la page 2

EFFET DE LA SUREXPOSITION

YEUX: Irritation des YEUX.

PEAU: L'exposition prolongée ou répétée risque de provoquer l'irritation des peau.

INHALATION: Irritation des voies respiratoires supérieures.

Dans un espace restreint, les vapeurs en grande concentration peuvent causer des maux de tête, des nausées ou l'étourdissement.

SYMPTÔMES DE SUREXPOSITION

La rougeur et les démangeaisons ou la sensation de brûlure peuvent indiquer une exposition excessive des yeux ou de la peau.

ETAT DE SANTÉ AGGRAVÉ PAR EXPOSITION

En général, aucun exposition n'est reconnue.

CANCÉROGÉNICITÉ

Voir la Section 11.

Section 4 -- PREMIERS SOINS

YEUX: Rincer les yeux à grande eau pendant 15 minutes. Aller voir un médecin.

PEAU: Laver à fond les parties affectées avec de l'eau et du savon. Enlever les habits contaminés et les laver avant de les porter de nouveau.

INHALATION: Si une personne en est affectée, l'aider à sortir des lieux. Rétablir la respiration. Aider la personne á rester calme et au chaud.

INGESTION: N'incitez pas la personne á vomir. Aller voir un médecin immédiatement.

Section 5 -- MESURES EN CAS D'INCENDIE

POINT D'ÉCLAIR	LIE	LSE
Non applicable	P.D.	P.D.

CLASSIFICATION D'INFLAMMABILITÉ

Non applicable

MOYENS D'EXTINCTION

Dioxyde de carbone, produit chimique sec, mousse d'alcool

DANGERS D'INCENDIE OU D'EXPLOSION EXCEPTIONNELS

Les contenants fermés peuvent exploser (à cause de l'augmentation de la pression) s'ils sont exposés à une chaleur extrême.

En cas d'urgence, une exposition excessive aux produits de décomposition peut constituer un danger pour la santé. Les symptômes peuvent ne pas se manifester immédiatement. Voir le médecin.

MESURES PARTICULIÉRES DI PROTECTION CONTRE L'INCENDIE

On doit utiliser l'équipement de protection complète y compris un appareil de respiration auto-alimenté.

La pulvérisation avec de l'eau peut être inefficace. Si on se sert de l'eau, l'ajutage pour brume est préférable. On peut se servir de l'eau pour refroidir les contenants fermés afin d'empêcher l'augmentation de la pression et la possibilité d'une combustion automatique ou l'explosion en cas d'exposition à une chaleur extrêmement grande.

Suite à la page 3

Section 6 -- MARCHE Á SUIVRE EN CAS DE DÉVERSEMENT ACCIDENTEL

MESURES À PRENDRE LORSQUE DES MATIÉRES SONT RENVERSÉES OU ÉVAPORÉES

Enlever toute source de combustion. Bien aérer.

Nettoyer avec un absorbant non réactif.

Section 7 -- MANUTENTION ET ENTREPOSAGE

CATÉGORIE D'ENTREPOSAGE

Non applicable

PRÉCAUTIONS Á PRENDRE LORS DE L'ENTREPOSAGE DI LA MANIPULATION

Garder le contenant fermé lorsqu'il n'est pas en usage. Transvaser seulement dans des contenants approuvés et ayant des étiquettes complètes et convenables. Ne pas avaler. Garder hors de la portée des enfants.

Section 8 -- CONTRÔLE DE L'EXPOSITION ET PROTECTION INDIVIDUELLE

PRÉCAUTIONS À PRENDRE AUCOURS DE L'UTILISATION

N'utiliser ce produit que dans un endroit bien aéré.

Éviter tout contact avec la peau et les yeux. Eviter d'aspirer les vapeurs et la brume de vaporisation.

Bien se laver les mains après l'utilisation.

Ce produit peut contenir des matières classifiées comme petites particules irritantes, telles que le dioxyde de titane ou le carbonate de calcium (voir la liste ACGIH TLV, la préface et l'annexe D). On peut avoir ces particules dans des proportions dangereuses uniquement au moment du grattement et de l'éraflement de la couche séchée. Si la liste dans la 2e section ne fait aucune mention spécifique de la présence des poussières de particules, les limites applicables sont: pour ACGIH TLV 10 mg/m3 (concentration totale de poussière), 3 mg/m3 (fractionée de respiratoire).

L'enlèvement des anciennes peintures par ponçage, décapage ou toute autre méthode risque de dégager des poussières ou des vapeurs contaminées par le plomb. L'exposition à ces poussières ou vapeurs peut entraîner un dysfonctionnement du cerveau ou d'autres effets néfastes sur la santé, surtout chez les femmes enceintes et les enfants. L'utilisation d'équipement de protection approprié, tel qu'un appareil respiratoire bien ajusté et homologué par le NIOSH, ainsi que des moyens de confinement adéquats et un nettoyage convenable de ces substances sont nécessaires afin de contrôler l'exposition au plomb ou à d'autres substances dangereuses. Pour obtenir plus de renseignements, communiquer avec le National Lead Information Center au 1-800-424-5323 (aux É-U) ou avec le service local de santé publique.

VENTILATION

Un système permettant l'échappement local des produits est préférable. Si l'exposition aux produits de la 2e section est maintenue au-dessous des limites d'exposition applicables, le système d'échappement global est acceptable.

Suite à la page 4

PROTECTION DES VOIES RESPIRATOIRES

Si on ne peut pas maintenir, par simple ventilation, le niveau auquel on s'expos personnellement en dessous des limites applicables, porter un respirateur à filtre de vapeur organique et particules approprié et bien ajusté approuvé par NIOSH/MSHA pour se protéger contre les produits de la 2e section.

Pendant que vous frottez ou poncez la couche sechée, porter un respirateur à filtre de poussière et de brume, approuvé par NIOSH/MSHA pour vous protéger contre la poussière qui peut éventuellement se dégager de ce produit, de la peinture ou de l'abrasif.

GANTS PROTECTEURS

Porter les gants recommandés par le fournisseur de gants pour se protéger contre les produits de la 2e section.

LUNETTES DE SÉCURITÉ

Porter les lunetttes de sécurité avec des protecteurs latéraux non perforés.

Section 9 -- PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

POIDS DU PRODUIT	11.39 lb/gal	1364 g/l
DENSITÉ	1.37	
COURBE D'ÉBULLITION	212 - 213 F	100 - 100 C
POINT DE FUSION	P.D.	
VOLUME VOLATIL	65 %	
VITESSE D'ÉVAPORATION	Plus lent que l'Éther	
DENSITÉ DE LA VAPEUR	Plus lourd que l'Air	
SOLUBILITÉ DANS L'EAU	P.D.	
pH	9.0	

COMPOSÉS ORGANIQUES VOLATILS (Théorique)

0.37 lb/gal	44 g/l	Moins d'eau et de Solvants Exemptés
0.13 lb/gal	16 g/l	Émis COV

Section 10 -- STABILITÉ ET RÉACTIVITÉ

STABILITÉ -- Stable

CONDITIONS À ÉVITER

Aucun connu.

INCOMPATIBILITÉ

Aucun connu.

PRODUITS DANGEREUX DÛ À LA DÉCOMPOSITION

Par combustion: Dioxyde de carbone, monoxyde de carbone

POLYMÉRISATION DANGEREUSE

Ne Peut Pas De Produire

Suite à la page 5

Section 11 -- DONNÉES TOXICOLOGIQUES

RISQUES DE SANTÉ CHRONIQUES

La silice crystalline (tel que le quartz ou le cristobalite) figure sur la liste de l'IARC. L'exposition prolongée à de hautes concentrations de la poussière de silice (situation pouvant se développer seulement au moment du ponçage ou de l'éraflement de la couche sèche), peut provoquer des troubles des poumons(appelés silicosis) et même le cancer.

Les rats exposés à la poussière de dioxyde de titanium à une concentrations de 250mg/m3 ont développé le cancer des poumons. Toutefois, on ne peut pas atteindre une telle concentration en milieu du travail.

INFORMATION TOXICOLOGIQUE

CAS No.	Ingredient				
14808-60-7	Quartz				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
14464-46-1	Cristobalite				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
1332-58-7	Kaolin				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
14807-96-6	Talc				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
471-34-1	Carbonate de Calcium				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible
13463-67-7	Dioxyde de Titane				
		LC50	RAT	4HR	Pas Disponible
		LD50	RAT		Pas Disponible

Section 12 -- DONNÉES ÉCOLOGIQUES

Aucunes donnies disponibles.

Section 13 -- DONNÉES SUR L'ÉLIMINATION DU PRODUIT

MÉTHODE D'ÉLIMINATION DES DÉCHETS

Les déchets de ce produit ne présentent aucun danger, selon la définition donnée dans la "U.S. Resource Conservation and Recovery Act" (RCRA) 40 CFR 261.

Incinérer dans un endroit approuvé. Ne pas incinérer les contenants fermés. Respecter les lois anti-pollution fédérales, provinciales et municipales.

Suite à la page 6

Section 14 -- DONNÉES SUR LE TRANSPORT

US Ground (DOT)
Not Regulated for Transportation.

Canada (TDG)
Not Regulated for Transportation.

IMO
Not Regulated for Transportation.

Section 15 -- DONNÉES SUR LA RÉGLEMENTATION

SARA 313 (40 CFR 372.65C) AVIS DE FOURNISSEUR

CAS No.	CHIMIQUE/COMPOSÉ	% by WT	% Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification

CALIFORNIA PROPOSITION 65
AVERTISSEMENT: Ce produit des matières chimiques connue de l'État de la Californie qui peut causer le cancer, dommages à la naissance ou autre malformation congénitale.

DONNÉES SUR LA TSCA
Tous les produits chimiques dans ce produit sont énumérés, ou exemptez de l'énumération, sur le inventaire de TSCA.

Section 16 -- AUTRES DONNÉES

Cette FTSS a été préparée conformént aux exigences du SIMDUT; les données sont toutefois présentées sous 16 rubriques.

Les renseignements donnés ci-haut se rapportent à ce produit suivant sa formule actuelle et s'appuient sur les données disponibles en ce moment. L'addition de diluant et autres additifs peut changer considérablement les risques associés à ce produit et sa composition. Etant donné que nous n'avons pas de contrôle sur les conditions d'utilisation, nous ne donnons aucune guarantie, explicite ou implicite et nous n'assumons aucune responsabilité concernant l'usage, quel qu'il soit, de ces renseignements.

MATERIAL SAFETY DATA SHEET

B30HV8003
04 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

B30HV8003

HMIS CODES

Health	1*
Flammability	0
Reactivity	0

PRODUCT NAME

Interior Latex Flat Paint, Dover White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

18-APR-07

INFORMATION TELEPHONE NO.

(216) 566-2902

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT		UNITS	VAPOR PRESSURE
1	64742-54-7	Heavy Paraffinic Oil			
			ACGIH TLV	5 mg/m3 as Mist	
			OSHA PEL	5 mg/m3 as Mist	
0.2	14808-60-7	Quartz			
			ACGIH TLV	0.05 mg/m3 as Resp. Dust	
			OSHA PEL	0.1 mg/m3 as Resp. Dust	
2	14464-46-1	Cristobalite			
			ACGIH TLV	0.05 mg/m3 as Resp. Dust	
			OSHA PEL	0.05 mg/m3 as Resp. Dust	
21	471-34-1	Calcium Carbonate			
			ACGIH TLV	10 mg/m3 as Dust	
			OSHA PEL	15 mg/m3 Total Dust	
			OSHA PEL	5 mg/m3 Respirable Fraction	
12	13463-67-7	Titanium Dioxide			
			ACGIH TLV	10 mg/m3 as Dust	
			OSHA PEL	10 mg/m3 Total Dust	
			OSHA PEL	5 mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

Continued on page 2

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Not Applicable	N.A.	N.A.

FLAMMABILITY CLASSIFICATION
Not Applicable

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY
Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Continued on page 3

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Required for long or repeated contact.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	11.10 lb/gal	1329 g/l
SPECIFIC GRAVITY	1.34	
BOILING POINT	212 - 213 F	100 - 100 C
MELTING POINT	Not Available	
VOLATILE VOLUME	71 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	9.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

0.15 lb/gal	18 g/l	Less Water and Federally Exempt Solvents
0.04 lb/gal	5 g/l	Emitted VOC

Continued on page 4

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA

CAS No.	Ingredient Name				
64742-54-7	Heavy Paraffinic Oil				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
14808-60-7	Quartz				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
14464-46-1	Cristobalite				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
471-34-1	Calcium Carbonate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 5

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
Not Regulated for Transportation.

Canada (TDG)
Not Regulated for Transportation.

IMO
Not Regulated for Transportation.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
7915	29-SEP-07	Flammability	2
		Reactivity	0

PRODUCT NAME
KRYLON® Industrial ECO-GUARD™ Latex Enamel, Gray Primer

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES
Product Information
(800) 247-3266
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)
(800) 424-9300

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT		UNITS	VAPOR PRESSURE
1	71-36-3	1-Butanol			
		ACGIH TLV	20	ppm (Skin)	5.5 mm
		OSHA PEL	50	ppm (Skin) CEILING	
6	111-76-2	2-Butoxyethanol			
		ACGIH TLV	20	ppm	0.88 mm
		OSHA PEL	25	ppm	
7	67-64-1	Acetone			
		ACGIH TLV	500	ppm	180 mm
		ACGIH TLV	750	ppm STEL	
		OSHA PEL	1000	ppm	
38	115-10-6	Dimethyl Ether			
		ACGIH TLV	Not Available		760 mm
		OSHA PEL	Not Available		
0.1	14808-60-7	Quartz			
		ACGIH TLV	0.05	mg/m3 as Resp. Dust	
		OSHA PEL	0.1	mg/m3 as Resp. Dust	
10	14807-96-6	Talc			
		ACGIH TLV	2	mg/m3 as Resp. Dust	
		OSHA PEL	2	mg/m3 as Resp. Dust	
2	13463-67-7	Titanium Dioxide			
		ACGIH TLV	10	mg/m3 as Dust	
		OSHA PEL	10	mg/m3 Total Dust	
		OSHA PEL	5	mg/m3 Respirable Fraction	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.1	27.0

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.40 lb/gal	886 g/l
SPECIFIC GRAVITY	0.89	
BOILING POINT	<0 - 343 F	<-18 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	88 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 46.70% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
71-36-3	1-Butanol				
		LC50	RAT	4HR	8000 ppm
		LD50	RAT		790 mg/kg
111-76-2	2-Butoxyethanol				
		LC50	RAT	4HR	Not Available
		LD50	RAT		470 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
115-10-6	Dimethyl Ether				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
14808-60-7	Quartz				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
14807-96-6	Talc				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Continued on page 6

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
71-36-3	1-Butanol	1	
	Zinc Compound	2	0.6
	Glycol Ethers	6	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

K08303
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

K08303

HMIS CODES

Health	2*
Flammability	3
Reactivity	0

PRODUCT NAME

KRYLON* LINE-UP* Striping Paint (Solvent Based), Firelane Red

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
06-JAN-07

INFORMATION TELEPHONE NO.
(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
10	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
10	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
14	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
8	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.1	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
17	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
22	471-34-1	Calcium Carbonate				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	15	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.45 lb/gal	892 g/l
SPECIFIC GRAVITY	0.90	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 42.35% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name					
74-98-6	Propane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
64742-89-8	V. M. & P. Naphtha					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
471-34-1	Calcium Carbonate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	0.1	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

K08303
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

K08303

HMIS CODES

Health	2*
Flammability	3
Reactivity	0

PRODUCT NAME

KRYLON* LINE-UP* Striping Paint (Solvent Based), Firelane Red

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
Diversified Brands
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
06-JAN-07

INFORMATION TELEPHONE NO.
(800) 247-3266

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
10	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
10	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
14	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
8	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.1	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
17	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
22	471-34-1	Calcium Carbonate				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	15	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

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Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

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VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.45 lb/gal	892 g/l
SPECIFIC GRAVITY	0.90	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)
Volatile Weight 42.35% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name					
74-98-6	Propane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
64742-89-8	V. M. & P. Naphtha					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
471-34-1	Calcium Carbonate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	0.1	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

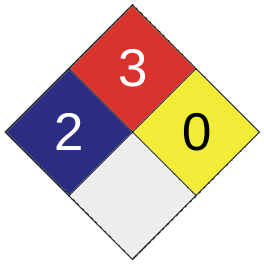
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name	**Porcelain Repair: White - PA40FP88, Almond - PA40FP89, Grey - PA40FP90**
CAS #	Mixture
Product Use	Coating
Manufacturer	Mumby & Associates Limited 7040 Financial Drive Mississauga, ON L5N 7H5 CA Phone 905-812-9319 Emergency Phone: 1-613-996-666 (CANUTEC)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	*	2
Flammability		3
Physical Hazard		0
Personal Protection		B



2. Hazards Identification

Emergency Overview

DANGER
Flammable liquid - may release vapours that form flammable mixtures at or above the flash point. Containers may explode when heated.
MAY CAUSE EYE AND SKIN IRRITATION.
Contains a potential teratogen.

Potential short term health effects

Routes of exposure	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
Eyes	May cause irritation.
Skin	May cause irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Blood. Eyes. Kidney. Liver. Respiratory system. Skin.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Xylene	1330-20-7	1 - 5
Solvent naphtha (petroleum), light aromatic	64742-95-6	10 - 30
1,2,4-Trimethylbenzene	95-63-6	10 - 30
Toluene	108-88-3	5 - 10

4. First Aid Measures

First aid procedures

Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting Measures

Flammable properties	Flammable by WHMIS criteria. Vapours may travel to a source of ignition and flash back. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Foam. Carbon dioxide.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighers	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Remove sources of ignition.

7. Handling and Storage

Handling	Use according to package label instructions.
Storage	Keep out of reach of children.Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure limits
1,2,4-Trimethylbenzene	**ACGIH-TLV** TWA: 25 ppm
Solvent naphtha (petroleum), light aromatic	**ACGIH-TLV** Not established
Toluene	**ACGIH-TLV** TWA: 50 ppm Skin: 50 ppm
Xylene	**ACGIH-TLV** TWA: 100 ppm STEL: 150 ppm

Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye/Face protection	Safety glasses

Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Not normally required if good ventilation is maintained.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Opaque.
Colour	Varies
Form	Liquid
Odour	Strong Hydrocarbon
Odour threshold	Not available
Physical state	Liquid
pH	Not available
Freezing point	Not available
Boiling point	110 °C (230.00 °F)
Flash point	7.2 °C (44.96 °F) TCC
Evaporation Rate	> 1 (Ether = 1)
Flammability limits in air, lower, % by volume	1
Flammability Limits in Air, Upper, % by Volume	12.6
Vapour pressure	Not available
Vapour density	> 1 (Air = 1)
Specific gravity	1.15 (H2O = 1)
Octanol/water coefficient	Not available
Solubility (H2O)	Insoluble
Auto-ignition temperature	Not available
VOC (Weight %)	45 - 55
Viscosity	Slightly viscous

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
1,2,4-Trimethylbenzene	3661 ppm rat
Solvent naphtha (petroleum), light aromatic	> 10.2 mg/L rat
Toluene	5100 ppm rat; 19 mg/l/4h rat
Xylene	6350 ppm rat

Component analysis - Oral LD50

Ingredient(s)	LD50
1,2,4-Trimethylbenzene	3280 mg/kg rat
Solvent naphtha (petroleum), light aromatic	4700 mg/kg rat
Toluene	636 mg/kg rat
Xylene	3523 mg/kg rat

Effects of acute exposure

Eye	May cause irritation.
Skin	May cause irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Contains a potential teratogen.
Carcinogenicity	Non-hazardous by WHMIS criteria.

ACGIH - Threshold Limits Values - Carcinogens

Toluene	108-88-3	A4 - Not Classifiable as a Human Carcinogen
Xylene	1330-20-7	A4 - Not Classifiable as a Human Carcinogen

Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Contains potential teratogens.

12. Ecological Information

Ecotoxicity effects	Components of this product have been identified as having potential environmental concerns.
Environmental effects	Harmful to aquatic life.
Aquatic toxicity	Not available
Persistence and degradability	Not available
Bioaccumulation/accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG)

Basic shipping requirements:

Proper shipping name	PAINT
Hazard class	3
UN number	1263
Packing group	II
Additional information:	
Special provisions	59

15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS classification	Exempt - Consumer product

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

16. Other Information

Disclaimer Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date 08-Aug-2006

Effective Date 15-Aug-2006

Expiry Date 15-Aug-2009

Prepared by Dell Tech Laboratories Ltd. (519) 858-5021

MATERIAL SAFETY DATA SHEET

SPRAYTEX, Inc.
28430 West Witherspoon Parkway
Valencia, CA 91355

Emergency (800) 234-5979
Information (661) 257-8787

SPRAYTEX WHITE CEILING TEXTURE

Latest Revision Date 6/21/94 Print Date 1/1/01

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME OR NUMBER ..... SPRC004 [4044-W]
TRADE NAME OR CHEMICAL NAME ..... SPRAYTEX WHITE CEILING TEXTURE
SYNONYMS ..... NA
FORMULA TSP0401 (L29326)
CHEMICAL FAMILY ..... NA
MOLECULAR WEIGHT ..... NA
NFPA ..... NA
HMIS RATING ..... HEALTH=1; FLAMMABILITY=0; REACTIVITY=0

SECTION 2 HAZARDOUS INGREDIENTS / HAZARD DATA

CHEMICAL NAMES	CAS NUMBER	% WT	TLV-TWA	PEL	SEC.313
CALCIUM CARBONATE	471-34-1	47	0.1mg/m3	NOT ESTABLISHED	NO
DIMETHYL ETHER	115-10-6	9	NONE ESTABLISHED	NONE ESTABLISHED	NO
MIXTURE OF: PROPANE/ISOBUTANE	068476-86-8	1	1000ppm	NOT ESTABLISHED	NO

*Information for mixtures is based on constituent MSDS which are available upon request. (Minus Proprietary Trade Names)

SECTION 3 PHYSICAL DATA

BOILING/MELTING POINT @760 mm Hg ..... NOT ESTABLISHED
pH ..... NOT ESTABLISHED
VAPOR PRESSURE mm Hg @ 20° C ..... 90 psig @ 70° F
VAPOR DENSITY (Air = 1) ..... >1
PERCENT VOLATILE BY WEIGHT(%) ..... NA
SPECIFIC GRAVITY OR BULK DENSITY 1.25
SOLUBILITY IN WATER ..... MISCIBLE
EVAPORATION RATE (BuAc = 1) 1
APPEARANCE ..... OFF WHITE, TAN & GRAY THICK PASTE
ODOR ..... CHARACTERISTIC FRAGRANCE
INTENSITY ..... NA

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT °f (Test Method) ..... NON-FLAMMABLE
AUTOIGNITION TEMPERATURE ..... NOT ESTABLISHED
FLAMMABILITY LIMITS IN AIR (% V) ..... NA
EXTINGUISHING MEDIA . . . . . ANY MEDIA CAPABLE OF EXTINGUISHING THE SUPPORTING FIRE.
SPECIAL FIRE FIGHTING PROCEDURES . . KEEP TEMPERATURES OF CONTAINERS BELOW 120° f BY SPRAYING WITH WATER UNTIL FIRE HAS BEEN EXTINGUISHED.
UNUSUAL FIRE & EXPLOSION HAZARDS . . CONTAINERS MAY RUPTURE AND RELEASE A SMALL AMOUNT OF FLAMMABLE GAS IF EXPOSED TO HEAT OF FIRE.

SECTION 5 HEALTH HAZARDS DATA * EFFECTS OF OVEREXPOSURE

SKIN CONTACT ..... WASH EXCESS MATERIAL FROM SKIN WITH SOAP & WATER.
EYE CONTACT ..... FLUSH EYES WITH WARM WATER FOR 10 MINUTES. CONSULT A PHYSICIAN IF IRRITATION OCCURS OR WORSENS.
INHALATION ..... IF INHALED EXCESSIVELY, REMOVE TO FRESH AIR.
INGESTION ..... PRODUCT IS NOT LIKELY TO BE INGESTED. IF THIS OCCURS TREAT SYMPTOMATICALLY.
CHRONIC EFFECTS OF OVEREXPOSURE ..... NONE WHEN USED AS DIRECTED.
TOXICOLOGICAL TEST DATA ..... NO RESULTS AVAILABLE.

note: *ALL CHEMICALS ARE LISTED ON THE TSCA INVENTORY.*

SPRAYTEX WHITE CEILING TEXTURE

SECTION 6 EMERGENCY AND FIRST AID PROCEDURES

SKIN ..... Wash affected area with water while removing contaminated clothing. GET IMMEDIATE MEDICAL ATTENTION. Launder contaminated clothing before reuse.

EYES..... Flush eyes with generous amounts of water for at least 15 minutes. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION..... If swallowed, **DO NOT INDUCE VOMITING**. Dilute with water or milk. CALL A PHYSICIAN IMMEDIATELY. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

INHALATION..... Move to fresh air. Aid in breathing, if necessary and get immediate medical attention.

SECTION 7 REACTIVITY DATA

PRODUCT STABILITY	STABLE
CONDITIONS TO AVOID	NONE KNOWN. CONTENTS ARE STABLE BUT UNDER PRESSURE. DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY.
CHEMICAL INCOMPATIBILITY	KEEP AWAY FROM ACIDS.
HAZARDOUS DECOMPOSITION PRODUCTS	CALCIUM OXIDE MAY BE PRODUCED ON DECOMPOSITION.
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR.
CONDITIONS TO AVOID	NONE KNOWN.
CORROSIVE TO METAL	NO.
OXIDIZER	NA

SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	NIOSH/MSHA - Approved organic vapor respirator when vapors are generated above the permissible limit
VENTILATION	Local exhaust to control to recommended P.E.L.
PROTECTIVE CLOTHING	Gloves, coveralls, aprons, boots, - as necessary to prevent skin contact.
EYE PROTECTION	Chemical Goggles
OTHER PRECAUTIONS	Avoid excessive inhalations. Read and follow all label directions and cautions. Eyewash fountains should be easily accessible.

SECTION 9 ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA	NA
SPILL OR LEAK PROCEDURES	LEAKING CONTAINERS SHOULD BE PLACED IN AN OPENED CONTAINER, OUTDOORS, AWAY FROM SOURCES OF IGNITION, UNTIL ALL PRESSURE IS RELEASED.
HAZARDOUS SUBSTANCE SUPERFUND	NA
WASTE DISPOSAL METHOD	BURY OR INCINERATE IN APPROVED DISPOSAL FACILITIES IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATION.
CONTAINER DISPOSAL	EMPTY CONTAINERS & DRIED PRODUCT MAY BE DISPOSED OF AS NORMAL REFUSE.

SECTION 10 SHIPPING DATA

D.O.T. PROPER SHIPPING NAME	CONSUMER COMMODITY
HAZARDOUS SUBSTANCE 49CFR CERCLA	NA
D.O.T. HAZARD CLASS	ORM-D
D.O.T. LABELS REQUIRED	NONE
D.O.T. PLACARDS REQUIRED	NONE
POISON CONSTITUENT	NONE
BILL OF LADING DESCRIPTION	CONSUMER COMMODITY ORM-D
CC NO	NA
UN/NA CODE	NONE

SECTION 11 SUPPLIER INFORMATION

The information contained herein is, to the best of our knowledge and belief, accurate and reliable as of the date of issued. We do not however, warrant or guarantee the accuracy or reliability, nor shall we be liable for any loss or damage arising out of the use thereof. The information is offered for the user's consideration and examination, and it is the user's responsibility to satisfy himself that it is suitable and complete for his particular use.

PREPARED BY: J. STATEN, TECHNICAL SPECIALIST 6/21/94 / REFORMATTED: S. THOMAS 3/1/96

MATERIAL SAFETY DATA SHEET

SPRAYTEX, INC.
28430 WEST WITHERSPOON PARKWAY
VALENCIA, CA 91355

EMERGENCY: (800) 234-5979

INFORMATION: (661) 257-8787

SPRAYTEX CONTRACTOR SIZE ORANGEPEEL DRYWALL SPRAY TEXTURE

LATEST REVISION DATE: 6/21/94

PRINT DATE: 1/1/01

------SECTION 1 PRODUCT IDENTIFICATION ------

PRODUCT NAME OR NUMBER: SPRC003 (5055)

TRADE NAME OR CHEMICAL NAME: SPRAYTEX CONTRACTOR SIZE ORANGEPEEL

SYNONYMS: NA

FORMULA: TSP0301 (L29145)

CHEMICAL FAMILY: NA

MOLECULAR WEIGHT: NA

NFPA:
HEALTH 1
FLAMMABILITY 4
REACTIVITY 0

HMIS RATING:
HEALTH 1
FLAMMABILITY 4
REACTIVITY 0

------SECTION 2 HAZARDOUS INGREDIENTS / HAZARD DATA ------

CHEMICAL NAMES	CAS NUMBER	% WT	TLV - TWA	PEL	SEC. 313
CALCIUM CARBONATE	471-34-1	47	0.1 MG/M3	NOT ESTABLISHED	NO
ISOPROPYL ALCOHOL	67-63-0	6	400 PPM	400 PPM	NO
DIMETHYL ETHER	115-10-6	10	NONE ESTABLISHED	NONE ESTABLISHED	NO

*INFORMATION FOR MIXTURES IS BASED ON CONSTITUENT MSDS WHICH ARE AVAILABLE UPON REQUEST. (MINUS PROPRIETARY TRADE NAMES)

------SECTION 3 PHYSICAL DATA ------

BOILING/MELTING POINT @ 760 MMHg: NOT ESTABLISHED

pH: NOT ESTABLISHED

VAPOR PRESSURE MMHg @ 20 DEG. C: 60 PSIG @ 70 DEG. F

VAPOR DENSITY (AIR = 1): >1

PERCENT VOLATILE BY WEIGHT (%): NA

SPECIFIC GRAVITY OR BULK DENSITY: 1.25

SOLUBILITY IN WATER: MISCIBLE

EVAPORATION RATE (BuAc = 1): 1

APPEARANCE: OFF WHITE THICK PASTE

ODOR: CITRUS

INTENSITY: NA

------SECTION 4 FIRE AND EXPLOSION HAZARD DATA ------

FLASH POINT DEG. F (TEST METHOD): -42 DEG. F TOC

AUTOIGNITION TEMPERATURE: 622 DEG. F

FLAMMABILITY LIMITS IN AIR (% V):
LEL: 3.4 %
UEL: 18.0 %

EXTINGUISHING MEDIA: ANY MEDIA CAPABLE OF EXTINGUISHING THE SUPPORTING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:
KEEP TEMPERATURES OF CONTAINERS BELOW 120 DEG. F BY SPRAYING WITH WATER UNTIL FIRE HAS BEEN EXTINGUISHED.

UNUSUAL FIRE & EXPLOSION HAZARDS:
CONTAINERS MAY RUPTURE AND RELEASE A SMALL AMOUNT OF FLAMMABLE GAS IF EXPOSED TO HEAT OF FIRE.

------SECTION 5 HEALTH HAZARDS DATA * EFFECTS OF OVEREXPOSURE ------

SKIN CONTACT: WASH EXCESS MATERIAL FROM SKIN WITH SOAP & WATER.

EYE CONTACT:
FLUSH EYES WITH WARM WATER FOR 10 MINUTES.
CONSULT A PHYSICIAN IF IRRITATION OCCURS OR WORSENS.

INHALATION: IF INHALED EXCESSIVELY, REMOVE TO FRESH AIR.

INGESTION:
PRODUCT IS NOT LIKELY TO BE INGESTED. IF THIS OCCURS TREAT SYMPTOMATICALLY.

CHRONIC EFFECTS OF OVEREXPOSURE: NONE WHEN USED AS DIRECTED.

TOXICOLOGICAL TEST DATA: NO RESULTS AVAILABLE.

NOTE: ALL CHEMICALS ARE LISTED ON THE TSCA INVENTORY.

------SECTION 6 EMERGENCY AND FIRST AID PROCEDURES ------

SKIN:
WASH AFFECTED AREA WITH WATER WHILE REMOVING CONTAMINATED CLOTHING. GET IMMEDIATE MEDICAL ATTENTION. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

EYES:
FLUSH EYES WITH GENEROUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

GET IMMEDIATE MEDICAL ATTENTION.

INGESTION:
IF SWALLOWED, DO NOT INDUCE VOMITING. DILUTE WITH WATER OR MILK. CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE FLUIDS OR INDUCE VOMITING IF THE VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS.

INHALATION:
MOVE TO FRESH AIR. AID IN BREATHING, IF NECESSARY AND GET IMMEDIATE MEDICAL ATTENTION.

------SECTION 7 REACTIVITY DATA ------

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID:
NONE KNOWN. CONTENTS ARE STABLE BUT UNDER PRESSURE. DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY.

CHEMICAL INCOMPATIBILITY: KEEP AWAY FROM ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS:
CALCIUM OXIDE MAY BE PRODUCED ON DECOMPOSITION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: NONE KNOWN.

CORROSIVE TO METAL: NO.

OXIDIZER: NA

------SECTION 8 SPECIAL PROTECTION INFORMATION ------

RESPIRATORY PROTECTION:
NIOSH/MSHA - APPROVED ORGANIC VAPOR RESPIRATOR WHEN VAPORS ARE GENERATED ABOVE THE PERMISSIBLE LIMIT.

VENTILATION: LOCAL EXHAUST TO CONTROL TO RECOMMENDED P.E.L.

PROTECTIVE CLOTHING:
GLOVES, COVERALLS, APRONS, BOOTS, - AS NECESSARY TO PREVENT SKIN CONTACT.

EYE PROTECTION: CHEMICAL GOGGLES

OTHER PRECAUTIONS:
AVOID EXCESSIVE INHALATIONS. READ AND FOLLOW ALL LABEL DIRECTIONS AND CAUTIONS. EYEWASH FOUNTAINS SHOULD BE EASILY ACCESSIBLE.

------SECTION 9 ENVIRONMENTAL DATA ------

ENVIRONMENTAL TOXICITY DATA: NA

SPILL OR LEAK PROCEDURES:
LEAKING CONTAINERS SHOULD BE PLACED IN AN OPENED CONTAINER, OUTDOORS, AWAY FROM SOURCES OF IGNITION, UNTIL ALL PRESSURE IS RELEASED.

HAZARDOUS SUBSTANCE SUPERFUND: NA

WASTE DISPOSAL METHOD:
BURY OR INCINERATE IN APPROVED DISPOSAL FACILITIES IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATION.

CONTAINER DISPOSAL:
EMPTY CONTAINERS & DRIED PRODUCT MAY BE DISPOSED OF AS NORMAL REFUSE.

------SECTION 10 SHIPPING DATA ------

D.O.T. PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARDOUS SUBSTANCE 49 CFR CERCLA: NA

D.O.T. HAZARD CLASS: ORM-D

D.O.T. LABELS REQUIRED: NONE

D.O.T. PLACARDS REQUIRED: NONE

POISON CONSTITUENT: NONE

BILL OF LADING DESCRIPTION: CONSUMER COMMODITY ORM-D

CC NO: NA

UN/NA CODE: NONE

------SECTION 11 SUPPLIER INFORMATION ------

THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE OF ISSUED. WE DO NOT HOWEVER, WARRANT OR GUARANTEE THE ACCURACY OR RELIABILITY, NOR SHALL WE BE LIABLE FOR ANY LOSS OR DAMAGE ARISING OUT OF THE USE THEREOF. THE INFORMATION IS OFFERED FOR THE USER'S CONSIDERATION AND EXAMINATION, AND IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF THAT IT IS SUITABLE AND COMPLETE FOR HIS PARTICULAR USE.

PREPARED BY:
J. STATEN, TECHNICAL, SPECIALIST 6/21/94 / REFORMATTED: S. THOMAS 3/1/96

Homax PRODUCTS, INC.

MSDS

MATERIAL SAFETY DATA SHEET

PART I *What is the material and what do I need to know in an emergency?*

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): **HOMAX Waterbased ORANGEPEEL & SPLATTER Spray Texture**
PRODUCT CODES: 4091, 4092, 4192, 4091-06,4092-06, 4091-10-06
PRODUCT USE: Patching Interior Texture
SUPPLIER/MANUFACTURER'S NAME: **HOMAX PRODUCTS, INC.**
ADDRESS: 200 Westerly Rd.
Bellingham, WA 98226
CHEMTREC EMERGENCY NO.: 1-800-424-9300 (United States)
1-703-527-3887 (International Collect)
BUSINESS PHONE: 1-800-729-9029
DATE OF PREPARATION: Nov. 16, 2006

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR						
			ACGIH-TLV		OSHA-PEL		NIOSH-REL		
			TWA mg/m^3	STEL mg/m^3	TWA mg/m^3	STEL mg/m^3	TWA mg/m^3	STEL mg/m^3	IDLH/OTHER mg/m^3
Calcium Carbonate	1317-65-3	30 - 60	10	NE	15 * 5 **	NE	10 * 5 **	NE	NE
Dimethyl Ether (Propellant)	115-10-6	7 - 13	NE	NE	NE	NE	NE	NE	DFG MAK: IDLH**:** 1900 Peak: II (8)
Talc	14807-96-6	1 - 5	2 **	NA	20	NA	2 *	NE	1000
Isopropyl alcohol	67-63-0	3 - 7	492	984	980	NE	980	1225	2,000 (10% LEL)
Silica Quartz	14808-60-7	0.1-1	0.05 **R**	NE	10 mg/m^3 ** % SiO_2+2	NE	0.05 *	NE	50
Water and ingredients present in concentrations of less than 1% (or less than 0.1% if carcinogens)		Balance	The ingredients in the balance of this product do not contribute significant hazards beyond those described in this document. All pertinent health, safety and environmental information have been presented, per the requirements of the US Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canadian WHMIS.						

NE = Not Established. See Section 16 for Definitions of Terms Used.

NOTE (1): ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

NOTE (2):* Total dust; ** Respirable fraction; **R** = Measured as respirable fraction of the aerosol.

NOTE (3): The component Nicron 403, is free of crystalline silica and asbestos; therefore, carcinogenicity does not apply.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

PHYISCAL DESCRIPTION: This product is a white colored aerosol with a slight ethereal odor.

HEALTH HAZARD: This product is harmful if it is inhaled or swallowed. This product may cause severe irritation to the eyes or skin. If particulates of this product are inhaled, severe irritation of the respiratory system (i.e. lungs, nose, and throat), central nervous system, and gastrointestinal tract could occur.

FIRE HAZARD: This product is a flammable liquid and vapor (aerosol), with its contents under pressure. HOMAX EASY TEXTURE ORANGEPEEL & SPLATTER propellant has a flash point of - 42°F / -41°C.

REACTIVITY HAZARD: Minimal Hazard; the product is normally stable under ordinary conditions of use and storage.

ENVIRONMENTAL HAZARD: This product is does not normally present a significant hazard to aquatic or terrestrial life.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:

The most significant route of occupational overexposure is contact with skin, eyes, and inhalation. The symptoms of overexposure to this product are as follows:

INHALATION: If inhalation of product's mists or vapors occurs, severe respiratory system irritation or nervous system depression may develop. Nervous system depression is characterized by headache, dizziness, nausea, or possible unconsciousness. CONTACT WITH SKIN or EYES: Contact can cause severe eye or skin irritation. Symptoms of eye exposure may include redness, pain, burning sensation, and tearing. Prolonged skin contact may result in redness, irritation, and dermatitis.

SKIN ABSORPTION: May cause irritation or burning sensation.

INGESTION: Ingestion is not anticipated to be a significant route of occupational exposure. If the product is swallowed, severe irritation of the mouth, throat, and other tissues of the gastro-intestinal system may occur. Ingestion of large amounts may cause irritation, pain, vomiting, and diarrhea.

INJECTION: Accidental injection of this product may cause mild irritation and swelling, in addition to the wound.

Hazardous Materials Identification System (HMIS)

Health	**1***
Flammability	**4**
Physical Hazard	**1**
Protective Equipment	**A**

See Section 16 for Definition of Ratings

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in **Lay Terms**.

ACUTE: Depending on the duration of contact, overexposures can severely irritate the eyes, skin, lungs, respiratory tract and nervous system. Symptoms of exposure generally alleviated when overexposure ends.

CHRONIC: Long-term skin contact may result in dermatitis.

TARGET ORGANS: Acute: Eyes, Skin, Lungs, CNS, and Respiratory tract. Chronic: Skin

PART II *What should I do if a hazardous situation occurs?*

4. FIRST-AID MEASURES

Victims of chemical exposure must be taken for medical attention if any adverse effects occur. Take a copy of label and MSDS to physician or health professional with victim.

SKIN EXPOSURE: If this product contaminates the skin, immediately begin decontamination with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim must seek immediate medical attention if any adverse exposure symptoms develop.

EYE EXPOSURE: If this product enters the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Victim must seek medical attention.

INHALATION: If this product is inhaled, blow nose and remove victim to fresh air. INGESTION: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT INDUCE VOMITING, unless directed by medical personnel. Have victim rinse mouth with water, if conscious. Never induce vomiting or give

4. FIRST-AID MEASURES - Continued

a diluent (e.g., water) to someone who is unconscious, having convulsions, or unable to swallow. If contaminated individual is convulsing, maintain an open airway and obtain immediate medical attention.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing conditions of pulmonary, dermatitis, and conjunctivitis disorders.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: 30^0F (-1.1^0C)

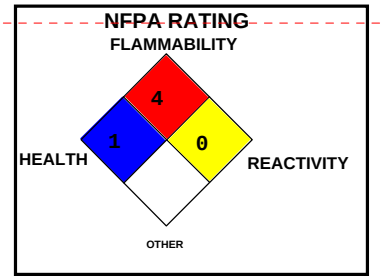
AUTOIGNITION TEMPERATURE: 662^0F (350^0C) (Dimethyl ether propellant)

FLAMMABLE LIMITS (in air by volume, %):

Lower: 3.4% (Dimethyl ether propellant)
Upper: 27% (Dimethyl ether propellant)

FIRE EXTINGUISHING MATERIALS: Use extinguishing material suitable to the surrounding fire.

Water Fog: OK
Foam: OK
Halon: OK
Carbon Dioxide: OK
Dry Chemical: OK



UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode due to build up of pressure from extreme heat or fire.

Explosion Sensitivity to Mechanical Impact: Do not puncture.
Explosion Sensitivity to Static Discharge: Primarily vapors.

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move containers from fire area if it can be done without risk to personnel. Exercise caution; contaminated floors and surfaces can be sticky. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

See Section 16 for Definition of Ratings

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area and protect people. Releases of this material may be sticky. If the product is dried, and dusts may be generated during clean-up, dampen material prior to clean-up to avoid airborne particulates.

RESPONSE TO INCIDENTAL RELEASES: Small scale releases, such as 1 container of this product, can generally be handled by personnel who have received basic chemical safety training. Respond to incidental chemical releases by wearing gloves, goggles, and appropriate body protection and by following the instructions for use presented above.

RESPONSE TO NON-INCIDENTAL RELEASES: Respond to non-incidental chemical releases of this product, such as the simultaneous puncturing of several containers, by clearing the impacted area and contacting appropriate emergency personnel. Clean up should only be done by qualified personnel. Responders should wear the level of protection appropriate to the type of chemical released, the volume of the material spilled, and the location where the incident has occurred. Minimum Personal Protective Equipment should be Level C: triple-gloves, chemical resistant apron, boots, and splash goggles and an Air-Purifying respirator with high-efficiency particulate filter.

RESPONSE EQUIPMENT AND PROCEDURES: Wipe-away spilled paste with damp polypads or other suitable absorbent materials, or scrape carefully with plastic tools. Decontaminate the area thoroughly. Place all spill residues in a suitable container and seal. Dispose of in accordance with applicable U.S. Federal, State, or local procedures or appropriate standards of Canada (see Section 13, Disposal Considerations).

PART III *How can I prevent hazardous situations from occurring?*

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after using this product. Do not eat or drink while using this material. Avoid generating dusts and particulates of this product. If sanding, use with adequate ventilation. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: All employees who handle this material should be trained to use it safely. Open containers carefully on a stable surface. Empty containers may contain residual material; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see Section 10, Stability and Reactivity). Keep container tightly closed when not in use. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely if necessary. Collect all rinsates and dispose of according to applicable U.S. Federal, State, or local procedures or appropriate Canadian standards.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in Section 2 (Composition and Information on Ingredients). Ensure adequate ventilation is available when sanding. Ensure eyewash/safety shower stations are available near areas where this product is used.

RESPIRATORY PROTECTION: None needed under normal conditions of use. Use a dust respirator for large jobs if dusts cannot otherwise be eliminated.

EYE PROTECTION: For consumer use, wearing eye protection (such as splash goggles) is advisable. However, for specific industrial applications, enhanced eye protection may be necessary. Use approved safety goggles or safety glasses, as described in OSHA 29 CFR 1910.133. If necessary, refer to U.S. OSHA 29 CFR 1910.133, or appropriate Canadian standards.

HAND PROTECTION: For consumer use, wearing protective gloves is recommended. For specific industrial applications, wear chemical impervious gloves (e.g., Neoprene, nitrile). If necessary, refer to U.S. OSHA 29 CFR 1910.138 or the appropriate standards of Canada.

BODY PROTECTION: For consumer use, no specific body protection is normally needed. For specific industrial applications, body protection is not routinely necessary, but may be warranted if excessive dusts may be generated. Use body protection appropriate for task (e.g., Tyvek suit, rubber apron). If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

HMIS PERSONAL PROTECTIVE EQUIPMENT RATING: Industrial Use situations: (A) Eye Protection.

9. PHYSICAL and CHEMICAL PROPERTIES

RELATIVE VAPOR DENSITY (air = 1): Heavier than air

EVAPORATION RATE (BuAc =1): Faster than n-butyl acetate

SPECIFIC GRAVITY: 0.9

MELTING POINT: 32^{o}F (0^{o}C)

SOLUBILITY IN WATER: Soluble in water

BOILING POINT: -13 ^{o}F (10.5 ^{o}C)

VAPOR PRESSURE, mm Hg @ 24°C:

pH: NA

ODOR THRESHOLD: NA

COEFFICIENT OF OIL/WATER DISTRIBUTION (PARTITION COEFFICIENT): NA

V.O.C.: < 60% MIR: < 1.20

APPEARANCE, ODOR AND COLOR: This product is a white colored aerosol with a slight ethereal odor

HOW TO DETECT THIS SUBSTANCE (warning properties): The appearance and odor of this product may act as warning properties in the event of an accidental release.

10. STABILITY and REACTIVITY

STABILITY: Stable under normal circumstances of use and handling.

DECOMPOSITION PRODUCTS: Thermal decomposition of this product may generate dusts, irritating fumes, and toxic gases (e.g., carbon monoxide, carbon dioxide).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: This product is not compatible strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid contact with incompatible chemicals and high temperatures.

PART IV *Is there any other useful information about this material?*

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following toxicology information is available for components greater than 1% in concentration.

The following data are available for Dimethyl ether:
Inhalation-Rat LC_{50}: 308 g/m3
Inhalation-Mouse LC_{50}: 386,000 ppm/30M
Inhalation-Rat TC_{Lo}: 2 pph/6H/30W-I

The following data are available for Isopropyl alcohol:
Skin-Rabbit, adult 500 mg Mild irritation effects
Eye effects-Rabbit, adult 16 mg
Eye effects-Rabbit, adult 10 mg Moderate irritation effects
Cytogenetic Analysis System-Saccharomyces cerevisiae 200 mmol/tube
Cytogenetic Analysis System-Rat-Inhalation 1030 mg/m3/16W-I
Oral-Rat TDLo:6480 mg/kg (male 26W pre):Reproductive effects
Inhalation-Rat TCLo:10,000 ppm/7H (female 1-19D post):Teratogenic effects
Oral-Man TDLo:14,432 mg/kg: Central nervous system effects, Cardiovascular effects, Pulmonary system effects
Oral-Human TDLo:223 mg/kg: Central nervous system effects, Cardiovascular effects
Oral-Man LDLo:5272 mg/kg AJCPAI 38,144,62
Oral-Human LDLo:3570 mg/kg: Central nervous system effects, Pulmonary system effects, Gastrointestinal tract effects
Unreported-Man LDLo:2770 mg/kg
Oral-Rat LD_{50}:5045 mg/kg
Inhalation-Rat LCLo:16,000 ppm/4H
Intraperitoneal-Rat LD_{50}:2735 mg/kg
Intravenous-Rat LD_{50}:1099 mg/kg
Oral-Mouse LD_{50}:3600 mg/kg
Inhalation-Mouse LCLo:12,800 ppm/3H
Intraperitoneal-Mouse LD_{50}:4477 mg/kg
Subcutaneous-Mouse LDLo:6000 mg/kg
Intravenous-Mouse LD_{50}:1509 mg/kg
Oral-Dog, adult LD_{50}:4797 mg/kg
Intravenous-Dog, adult LDLo:5120 mg/kg
Intravenous-Cat, adult LDLo:1963 mg/kg
Oral-Rabbit, adult LD_{50}:6410 mg/kg
Skin-Rabbit, adult LD_{50}:12,800 mg/kg

The following data are available for Talc:
Skin-Human 300 mg/3D-I Mild irritation effects
Inhalation-Rat TCLo:11 mg/m3/1Y-I:Equivocal tumorigenic agent

The following data are available for Calcium Carbonate, Vinyl Acrylic Copolymer, and Silica Quartz:
None available

SUSPECTED CANCER AGENT: The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency.

CHEMICAL	IARC	NTP	ACGIH	NIOSH	OSHA	CA PROP 65
Calcium Carbonate	NO	NO	NO	NO	NO	NO
Dimethyl Ether	NO	NO	NO	NO	NO	NO
Talc	3	NO	A4	NO	NO	NO
Vinyl Acrylic Copolymer	NO	NO	NO	NO	NO	NO
Isopropyl alcohol	3	NO	NO	NO	NO	NO
Silica Quartz	1	Known	Ca	NO	A2	YES

Note: See section 16 for definition of ratings

11. TOXICOLOGICAL INFORMATION - Continued

IRRITANCY OF PRODUCT: This product can be severely irritating to contaminated tissue.

SENSITIZATION TO THE PRODUCT: The components of this product are not reported to be sensitizers.

TOXICOLOGICAL SYNERGISTIC PRODUCTS: None known.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: This product is not expected to produce mutagenic effects in humans when used as instructed.
Embryotoxicity: This product is not expected to produce embryotoxic effects in humans when used as instructed.
Teratogenicity: This product is not reported to cause teratogenic effects in humans when used as instructed.
Reproductive Toxicity: This product is not reported to cause reproductive effects in humans when used as instructed.

A mutagen is a chemical that causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical that causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance that interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURES INDICES (BEIs): There is no BEI currently established for this substance.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: The following environmental data is available for components of this product: The mineral components of this product are stable in the environment.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: This product is not anticipated to cause significant effects on terrestrial plants or animals if released in small, consumer-sized volumes. This product may be harmful to animal life if large volumes of it are released into the environment. Refer to Section 11 (Toxicological Information) for specific animal data.

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product is not anticipated to cause significant effects on aquatic plants or animals if released in small, consumer-sized volumes. This product may be harmful to contaminated aquatic life (especially if large volumes of it are released into an aquatic environment). The following aquatic toxicity data is available for components of this product: NONE

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: **Consumer Waste:** Dispose of according to pertinent state and local household waste and requirements**. Industrial Use:** Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with regulations of Canada.

EPA WASTE NUMBER: Not applicable to wastes consisting only of this product; however, the specific RCRA codes depend on the exact nature of the discarded material.

14. TRANSPORTATION INFORMATION

THIS PRODUCT IS HAZARDOUS PER 49 CFR 172.101, THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:	Aerosols
HAZARD CLASS NUMBER and DESCRIPTION:	2.1(Flammable Gas)
UN IDENTIFICATION NUMBER:	UN1950
DOT LABEL(S) REQUIRED:	Flammable Gas
PACKAGING GROUP:	N/A

NORTH AMERICAN RESPONSE GUIDEBOOK NUMBER (2000): 126
MARINE POLLUTANT: No component is designated as a DOT Marine Pollutant.

Consumer commodities (per 173.306 (h)): A limited quantity that conforms to the provisions of paragraph (a) (1), (a) (3), or (b) of this section and is a "consumer commodity" (per 49 CFR 171.8) can be renamed “Consumer commodity” and reclassified as an ORM-D Material. Each package may not exceed 30 kg (66 pounds)gross weight. Reference 173.306 (a) (3): Limited quantities of compressed gases may be shipped when in a metal container for the sole purpose of expelling a nonpoisonous liquid, paste, or powder.

14. TRANSPORTATION INFORMATION - Continued

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: The above-listed DOT basic description applies to this product under the regulations of Transport Canada.

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:

EPA REPORTING REQUIREMENTS: The following reporting requirements are applicable to components of this product:

CHEMICAL	SECTION 302 (40 CFR 355, Appendix A)	SECTION 304 (40 CFR Table 302.4)	SECTION 313 (40 CFR 372.65)
Calcium Carbonate	NO	NO	NO
Dimethyl Ether	NO	NO	NO
Talc	NO	NO	NO
Isopropyl alcohol	NO	NO	NO
Vinyl Acrylic Copolymer	NO	NO	NO
Silica Quartz	NO	NO	NO

U.S. SARA SECTION 311/312 FOR PRODUCT: Acute health effects; chronic health effects.

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory.

OTHER U.S. FEDERAL REGULATIONS: Not applicable.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): "WARNING: This product contains a chemical known to the State of California to cause cancer."

ANSI LABELING (Z129.1):

DANGER! HARMFUL OR FATAL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID AND VAPOR.

VAPOR HARMFUL. CONTENTS UNDER PRESSURE. MAY EXPLODE IF HEATED. AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES SEVERE EYE IRRITATION. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

ANSI LABEL PRECAUTIONS:

Keep away from heat, sparks and flame. Do not expose to heat or store at temperatures above 120^{o}F. Close container after use. Avoid breathing dust, vapors or mist. Do not take internally. Avoid contact with skin and clothing. Wash thoroughly after handling. Avoid contact with eyes.

ENVIRONMENTAL HAZARDS: Do not discharge effluent containing this product into streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

15. REGULATORY INFORMATION - Continued

ADDITIONAL CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are listed on the DSL Inventory.

CANADIAN WHMIS SYMBOLS: **A - Compressed gas**
B1 - Flammable and combustible material - Flammable gas
B2 - Flammable and combustible material - Flammable liquid

D2A - Poisonous and infectious material - Other effects - Very toxic
D2B - Poisonous and infectious material - Other effects - Toxic

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

PREPARED BY:

John R. Kordosh
Homax Products, Inc.
4505 E. Industrial St., Ste. 1B
Simi Valley, CA 93063
(805) 581-3555

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DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these, which are commonly used, include the following:

CAS #: This is the Chemical Abstract Service Number that uniquely identifies each compound.

ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.

TLV - Threshold Limit Value - an airborne concentration of a substance that represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average **(TWA)**, the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level **(C)**. Skin absorption effects must also be considered.

OSHA - U.S. Occupational Safety and Health Administration.

PEL - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL that was vacated by Court Order.

IDLH - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. **The DFG - MAK** is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. **O**ccupational **S**afety and **H**ealth **A**dministration (**OSHA**). NIOSH issues exposure guidelines called **R**ecommended **E**xposure **L**evels (**REL**s). When no exposure guidelines are established, an entry of **NE** is made for reference.

HAZARD RATINGS:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: Health Hazard: **0** (minimal acute or chronic exposure hazard); **1** (slight acute or chronic exposure hazard); **2** (moderate acute or significant chronic exposure hazard); **3** (severe acute exposure hazard; onetime overexposure can cause permanent injury and may be fatal); **4** (extreme acute exposure hazard; onetime overexposure can be fatal). Flammability Hazard: **0** (minimal hazard); **1** (materials that require substantial pre-heating before burning); **2** (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); **3** (Class IB and IC flammable liquids with flash points below 38°C [100°F]); **4** (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F]. Reactivity Hazard: **0** (normally stable); 1 (material that can become unstable at elevated temperatures or which can react slightly with water); **2** (materials that are unstable but do not detonate or which can react violently with water); **3** (materials that can detonate when initiated or which can react explosively with water); **4** (materials that can detonate at normal temperatures or pressures).

NATIONAL FIRE PROTECTION ASSOCIATION: Health Hazard: **0** (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); **1** (materials that on exposure under fire conditions could cause irritation or minor residual injury); **2** (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); **3** (materials that can on short exposure could cause serious temporary or residual injury); **4** (materials that under very short exposure could cause death or major residual injury). Flammability Hazard and Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System".

FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire Protection Association (**NFPA**). Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

TOXICOLOGICAL INFORMATION:

Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: **LD_{50}** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC_{50}** - Lethal Concentration (gases) which kills 50% of the exposed animals; **ppm** concentration expressed in parts of material per million parts of air or water; **mg/m^3** concentration expressed in weight of substance per volume of air; **mg/kg** quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of toxicity include **TDLo**, the lowest dose to cause a symptom and **TCLo** the lowest concentration to cause a symptom; **TDo**, **LDLo**, **LDo**, **TC**, **TCo**, **LCLo**, and **LCo**, the lowest dose (or concentration) to cause lethal or toxic effects. **BEI** - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV. Ecological Information: **EC** is the effect concentration in water.

Data from several sources are used to evaluate the cancer-causing potential of the material. The sources and ratings are: **IARC** - the International Agency for Research on Cancer; 1 = Carcinogenic to humans, 2A, 2B = Probably carcinogenic to humans, 3 = Unclassifiable as to carcinogenicity in humans, and 4 = Probably not carcinogenic to humans. **NTP** - the National Toxicology Program; K =Known to be a human carcinogen, and R = Reasonably anticipated to be a human carcinogen. **RTECS** - the Registry of Toxic Effects of Chemical Substances. **OSHA** - Occupational Safety and Health Administration and **CAL/OSHA** - California's subunit of the Occupational Safety and Health Administration; Ca = Carcinogen defined with no further categorization. **ACGIH –** American Conference of Governmental Industrial Hygienists; A1 = Confirmed human carcinogen, A2 = Suspected human carcinogen, A3 = Confirmed animal carcinogen with unknown relevance to humans, A4 = Not classifiable as a human carcinogen, and A5 = Not suspected as a human carcinogen. **NIOSH –** U.S. National Institute for Occupational Safety and Health; Ca = Potential occupational carcinogen, with no further categorization. **EPA –** U.S. Environmental Protection; A = Human carcinogen, B = Probable human carcinogen, C = Possible human carcinogen, D = Not classifiable as to human carcinogenicity, E = Evidence of Non-carcinogenicity for humans, K = Known human carcinogen, L = Likely to produce cancer in humans, CBD = Cannot be determined, NL = Not likely to be carcinogenic in humans, and I = Data are inadequate for an assessment of human carcinogenic potential.

REGULATORY INFORMATION:

This section explains the impact of various laws and regulations on the material. **EPA** is the U.S. Environmental Protection Agency. **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **DOT** and **TC** are the U.S. Department of Transportation and the Transport Canada, respectively. Superfund Amendments and Reauthorization Act **(SARA)**; the Canadian Domestic/Non-Domestic Substances List **(DSL/NDSL)**; the U.S. Toxic Substance Control Act **(TSCA)**; Marine Pollutant status according to the **DOT**; the Comprehensive Environmental Response, Compensation, and Liability Act **(CERCLA or Superfund)**; and various state regulations. This section also includes information on the precautionary warnings that appear on a material's industrial package label.

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Homax PRODUCTS, INC.

MSDS

MATERIAL SAFETY DATA SHEET

PART I *What is the material and what do I need to know in an emergency?*

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): **HOMAX EASY TOUCH COARSE ACOUSTIC TEXTURE**
PRODUCT CODES: 4070
PRODUCT USE: Texture Patch
SUPPLIER/MANUFACTURER'S NAME: **HOMAX PRODUCTS, INC.**
ADDRESS: 468 W. Horton Road
Bellingham, WA 98226
BUSINESS PHONE: 1 800 729 9029
CHEMTREC EMERGENCY NO.: 1-800-424-9300 (United States)
1-703-527-3887 (International Collect)
BUSINESS PHONE: 1-800-729-9029
DATE OF PREPARATION: April 20, 2004

This product is sold to consumers for household use in containers of relatively small volume (i.e. 5 gallon or less in size). This MSDS has been developed to address safety concerns affecting those individuals working in warehouses and other places where large numbers of these containers are stored, as well as those affecting potential users of this product in industrial /occupational settings. All pertinent health, safety and environmental information have been presented in this document, per the requirements of the US Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canadian WHMIS.

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR						
			ACGIH-TLV		OSHA-PEL		NIOSH-REL		
			TWA mg/m^3	STEL mg/m^3	TWA mg/m^3	STEL mg/m^3	TWA mg/m^3	STEL mg/m^3	IDLH mg/m^3
Calcium carbonate	1317-65-3	15 – 40	10	NE	15 * 5 **	NE	10 * 5 **	NE	NE
Aluminum silicate	1322-58-7	7 – 13	2 **	NE	15 * 5 **	NE	10 * 5 **	NE	3000
Silica, crystalline	14808-60-7	1 – 5	0.05 **	NE	$\frac{10\ mg/m^3}{\%\ SiO_2+2}$		0.05 **	NE	50
Starch	9005-84-9	1 – 5	10	NE	15 * 5 **	NE	10 * 5 **	NE	NE
Attapulgite	12174-11-7	1 - 5	NE	NE	NE	NE	NE	NE	NE
Water and ingredients present in concentrations of less than 1% (or less than 0.1% if carcinogens)		Balance	The ingredients in the balance of this product do not contribute significant hazards beyond those described in this document. All pertinent health, safety and environmental information has been presented, per the requirements of the US Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canadian WHMIS.						

NE = Not Established; * Total dust; ** Respirable fraction. See Section 16 for Definitions of Terms Used.

NOTE (1): ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

PHYISCAL DESCRIPTION: This product is an odorless white aerosol texture.

HEALTH HAZARD: This product can cause irritation to the eyes or skin. This product is harmful if swallowed or inhaled. If vapors, mists or particulates of this product are inhaled, irritation of the nose or throat could occur.

FIRE HAZARD: This product is non-combustible.

REACTIVITY HAZARD: This product is stable under ordinary conditions of use and storage.

ENVIRONMENTAL HAZARD: This product does not normally present a significant hazard to aquatic or terrestrial life in consumer quantities.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:

The most significant route of occupational overexposure is contact with skin and eyes. The symptoms of overexposure to this product are as follows:

INHALATION: Vapors, mists, sprays, or dusts of this product can cause irritation to the respiratory tract. Dusts from this product can contain small amounts of crystalline Silica, a recognized carcinogen. Exposure to high concentrations of crystalline Silica can also cause silicosis.

CONTACT WITH SKIN or EYES: Contact can cause eye or skin irritation. Prolonged skin contact can result in dermatitis. Prolonged eye exposure may include redness, pain, and tearing.

SKIN ABSORPTION: No component of this product is reported to be absorbed through intact skin.

INGESTION: If the product is swallowed, irritation of the mouth, throat, and other tissues of the gastro-intestinal system can occur. Ingestion of large amounts can cause irritation, pain, vomiting, and diarrhea.

INJECTION: Accidental injection of this product can cause burning, reddening, and swelling in addition to the wound. Symptoms of such exposure can include those described under “Inhalation”, “Contact with Skin or Eyes,” and “Ingestion”.

Hazardous Materials Identification System (HMIS)

Health	**2***
Flammability	**0**
Physical Hazard	**1**
Protective Equipment	**B**

See Section 16 for Definition of Ratings

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in **Lay Terms**.

ACUTE: Depending on the duration of contact, overexposures can irritate the eyes, skin, mucous membranes, and other exposed tissue.

CHRONIC: Long-term skin or eye contact can result in dermatitis or eye irritation.

TARGET ORGANS: Acute: Eyes, respiratory system and skin. Chronic: Eyes and skin.

PART II *What should I do if a hazardous situation occurs?*

4. FIRST-AID MEASURES

Victims of chemical exposure must be taken for medical attention if any adverse effects occur. Take a copy of label and MSDS to physician or health professional with victim.

SKIN EXPOSURE: If this product contaminates the skin, immediately begin decontamination with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim must seek immediate medical attention if any adverse exposure symptoms develop.

EYE EXPOSURE: If this product enters the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Victim must seek medical attention.

4. FIRST-AID MEASURES - Continued

INHALATION: If vapors, mists, or sprays of this product are inhaled, remove victim to fresh air. Victim must seek immediate medical attention if any adverse exposure symptoms develop. If necessary, use artificial respiration to support vital functions.

INGESTION: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT INDUCE VOMITING, unless directed by medical personnel. Have victim rinse mouth with water, if conscious. Never induce vomiting or give a diluent (e.g., water) to someone who is unconscious, having convulsions, or unable to swallow. If contaminated individual is convulsing, maintain an open airway and obtain immediate medical attention.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders, eye problems, impaired liver, kidney, respiratory or lymphoid system function can be more susceptible to health effects associated with overexposures to this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

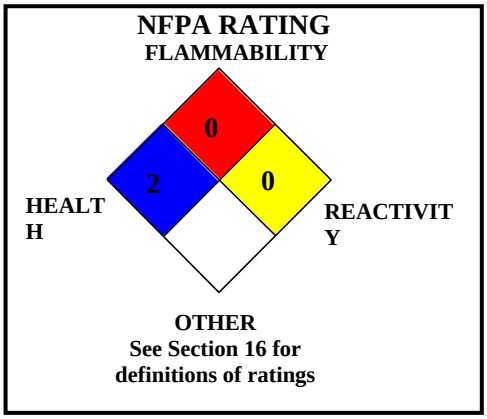
5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower: Not applicable.
Upper: Not applicable.



FIRE EXTINGUISHING MATERIALS: Use extinguishing material suitable to the surrounding fire.

Water Spray: OK.	Carbon Dioxide: OK
Foam: OK	Dry Chemical: OK
Halon: OK	Other: Any "ABC" Class.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode due to build up of pressure from extreme heat or fire. When involved in a fire, this material may decompose and, generating dusts, irritating fumes and toxic gases (e.g., Carbon monoxide and Carbon dioxide).

Explosion Sensitivity to Mechanical Impact: Not sensitive under normal conditions.

Explosion Sensitivity to Static Discharge: Not sensitive under normal conditions.

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move containers from fire area if it can be done without risk to personnel. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Trained personnel using pre-planned procedures should respond to uncontrolled releases. Proper protective equipment should be used. In case of a spill, clear the affected area and protect people.

RESPONSE TO INCIDENTAL RELEASES: Personnel who have received basic chemical safety training can generally handle small-scale releases, such as 1 container of this product. Respond to incidental chemical releases by wearing gloves, goggles, and appropriate body protection.

RESPONSE TO NON-INCIDENTAL RELEASES: Respond to non-incidental chemical releases of this product, such as the simultaneous puncturing of several containers, by clearing the impacted area and contacting appropriate emergency personnel. Clean up should only be done by qualified personnel. Responders should wear the level of protection appropriate to the type of chemical released, the volume of the material spilled, and the location where the incident has occurred. Minimum Personal Protective Equipment should be Level B: triple-gloves, chemical resistant apron, boots, and splash goggles and Self-Contained Breathing Apparatus. Level B should also be used when oxygen levels are below 19.5% or are unknown.

RESPONSE EQUIPMENT AND PROCEDURES: Absorb spilled liquid with polypads or other suitable absorbent materials. Decontaminate the area thoroughly. Prevent spill rinsate from contamination of storm drains, sewers, soil or groundwater. Place all spill residues in a suitable container and seal. Dispose of in accordance with applicable U.S. Federal, State, or local procedures or appropriate standards of Canada (see Section 13, Disposal Considerations).

PART III *How can I prevent hazardous situations from occurring?*

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after using this product. Do not eat or drink while using this material. Avoid generating dusts, mists or sprays of this product. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: All employees who handle this material should be trained to use it safely. Open containers carefully on a stable surface. Empty containers can contain residual material; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see Section 10, Stability and Reactivity). Keep container tightly closed when not in use. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely if necessary. Collect all rinsates and dispose of according to applicable U.S. Federal, State, or local procedures or appropriate Canadian standards.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in Section 2 (Composition and Information on Ingredients).

RESPIRATORY PROTECTION: None needed under normal conditions of use. Use NIOSH approved respirators if ventilation is inadequate to control dusts, mists, fumes or vapors. Maintain airborne contaminate concentrations below guidelines listed in Section 2 (Composition and Information on Ingredients). Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres use of a full-face-piece pressure/demand SCBA or a full face-piece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (29 CFR 1910.134).

EYE PROTECTION: For consumer use, wearing eye protection (such as splash goggles) is advisable. However, for specific industrial applications, enhanced eye protection can be necessary. Use approved safety goggles or safety glasses, as described in OSHA 29 CFR 1910.133. If necessary, refer to U.S. OSHA 29 CFR 1910.133, or appropriate Canadian standards.

HAND PROTECTION: For consumer use, wearing protective gloves is recommended. For specific industrial applications, wear chemical impervious gloves (e.g., Neoprene or Nitrile). If necessary, refer to U.S. OSHA 29 CFR 1910.138 or the appropriate standards of Canada.

BODY PROTECTION: For consumer use, no specific body protection is normally needed. For specific industrial applications, body protection is not normally needed. Use body protection appropriate for task (e.g., Tyvek suit, rubber apron). If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects can pierce the soles of the feet or where employee's feet can be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

HMIS PERSONAL PROTECTIVE EQUIPMENT RATING: Industrial Use situations: B; Safety glasses and gloves.

9. PHYSICAL and CHEMICAL PROPERTIES

RELATIVE VAPOR DENSITY (air = 1): Heavier than air.

EVAPORATION RATE (BuAc =1): Not applicable.

SPECIFIC GRAVITY: Not applicable.

MELTING/FREEZING POINT: Not applicable.

SOLUBILITY IN WATER: Appreciable.

BOILING POINT: Not applicable.

VAPOR PRESSURE, mm Hg @ 24°C: Not applicable. pH: Not applicable.

ODOR THRESHOLD: Not applicable.

COEFFICIENT OF OIL/WATER DISTRIBUTION (PARTITION COEFFICIENT): Not applicable.

Weight % V.O.C.: 0.2%

APPEARANCE, ODOR AND COLOR: This product is an odorless white aerosol texture.

HOW TO DETECT THIS SUBSTANCE (warning properties): The appearance of this product may act as warning properties in the event of an accidental release.

10. STABILITY and REACTIVITY

STABILITY: Stable under normal circumstances of use and handling.

DECOMPOSITION PRODUCTS: Thermal decomposition of this product may generate dusts, irritating fumes, and toxic gases (e.g., Carbon monoxide and Carbon dioxide).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: This product is not compatible with acids, strong oxidizing agents and ammonia.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid contact with incompatible chemicals, high temperature/humidity, ignition sources, and vapor build-up.

PART IV *Is there any other useful information about this material?*

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: There are currently no toxicity data available for this product; the following toxicology information is available for components greater than 1% in concentration.

The following data are available for Attapulgite:
Inhalation-Rat TCLo:10 mg/m3/6H/13W-I:Equivocal tumorigenic agent
Intraperitoneal-Rat TDLo:338 mg/kg/2W-I:Neoplastic effects
Implant-Rat TDLo:200 mg/kg:Equivocal tumorigenic agent

The following data are available for Limestone:
Oral - Rat: LD_{50}: 6450 mg/kg

The following data are available for Starch:
Skin-Human 300 mg/3D-I Mild irritation effects
Intraperitoneal-Mouse LD_{50}:6600 mg/kg

SUSPECTED CANCER AGENT: The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency.

CHEMICAL	IARC	NTP	NIOSH	OSHA	ACGIH	PROP 65
Starch	NO	NO	NO	NO	NO	NO
Calcium carbonate	NO	NO	NO	NO	NO	NO
Aluminum silicate	3	NO	NO	NO	A4	NO
Silica, crystalline	1	K	Ca	NO	A2	YES
Attapulgite	2B (>5μm) 3 (< 5μm)	NO	NO	NO	NO	YES (>5μm)

IRRITANCY OF PRODUCT: This product can be irritating to contaminated tissue. Prolonged exposure can lead to tissue damage.SENSITIZATION TO THE PRODUCT: Starch dust, a component of this product, may be an allergen.

TOXICOLOGICAL SYNERGISTIC PRODUCTS: None.

11. TOXICOLOGICAL INFORMATION – Continued

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: When used as directed, this product is not expected to produce mutagenic effects in humans.

Embryotoxicity: When used as directed, this product is not expected to produce embryotoxic effects in humans.

Teratogenicity: When used as directed, this product is not expected to produce teratogenic effects in humans.

Reproductive Toxicity: When used as directed, this product is not expected to produce reproductive toxicity in humans.

A mutagen is a chemical that causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical that causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance that interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURES INDICES (BEIs): There are no BEI's established for any component of this product at this time.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: There is no environmental data for any component of this product at this time.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: This product can be harmful to terrestrial plant and animal life if large volumes of it are released into the environment. Refer to Section 11, "Toxicological Information", for specific animal data.

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product can be harmful to animal life if large volumes of it are released into an aquatic environment. There is no aquatic toxicity for any component of this product at this time.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: **Consumer Waste:** Dispose of according to pertinent state and local household waste and requirements**. Industrial Use:** Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with regulations of Canada.

EPA WASTE NUMBER: Not applicable to wastes consisting only of this product; however, the specific RCRA codes depend on the exact nature of the discarded material.

14. TRANSPORTATION INFORMATION

THIS PRODUCT IS HAZARDOUS PER 49 CFR 172.101, THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Aerosols
HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable)
UN IDENTIFICATION NUMBER: UN 1950
DOT LABEL(S) REQUIRED: Non-Flammable Gas
PACKAGING GROUP: Not applicable.
NORTH AMERICAN RESPONSE GUIDEBOOK NUMBER (2000): 126
MARINE POLLUTANT: No component is designated as a DOT Marine Pollutant.

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: The above-listed DOT basic description applies to this product under the regulations of Transport Canada.

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:

EPA REPORTING REQUIREMENTS: The following reporting requirements are applicable to components of this product:

CHEMICAL	SECTION 302 (40 CFR 355, Appendix A)	SECTION 304 (40 CFR Table 302.4)	SECTION 313 (40 CFR 372.65)
Starch	NO	NO	NO
Calcium carbonate	NO	NO	NO
Aluminum silicate	NO	NO	NO
Silica, crystalline	NO	NO	NO
Attapulgite	NO	NO	NO

U.S. SARA SECTION 311/312 FOR PRODUCT: Acute health effects; chronic health effects.
U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory.
OTHER U.S. FEDERAL REGULATIONS: Not applicable.
CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
"WARNING: This product contains a chemical known to the State of California to cause cancer."

ANSI LABELING (Z129.1):
CAUTION! DUST AND VAPOR HARMFUL IF INHALED. MAY CAUSE SKIN, EYE AND LUNG IRRITATION. WARNING - CONTENTS UNDER PRESSURE.

ANSI LABEL PRECAUTIONS:
Use with adequate ventilation, open windows and doors if using inside. Avoid breathing dust or vapors. Avoid contact with skin, eyes and clothing. Use safety glasses and gloves. Wash thoroughly after handling. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120°F.

ENVIRONMENTAL HAZARDS: Do not discharge effluent containing this product into streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

ADDITIONAL CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are listed on the DSL Inventory.

CANADIAN WHMIS SYMBOLS: A - Compressed gas
D2B - Poisonous and infectious material - Other effects - Toxic

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

PREPARED BY: ADVANCED CHEMICAL SAFETY, Inc.
7563 Convoy Court
San Diego, CA 92111
(858)-874-5577

DATE OF PRINTING September 8, 2004

DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these, which are commonly used, include the following:

CAS #: This is the Chemical Abstract Service Number that uniquely identifies each compound.

ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.

TLV - Threshold Limit Value - an airborne concentration of a substance that represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average **(TWA)**, the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level **(C)**. Skin absorption effects must also be considered.

OSHA - U.S. Occupational Safety and Health Administration.

PEL - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL that was vacated by Court Order.

IDLH - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. **The DFG - MAK** is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. **O**ccupational **S**afety and **H**ealth **A**dministration (**OSHA**). NIOSH issues exposure guidelines called **R**ecommended **E**xposure **L**evels (**REL**s). When no exposure guidelines are established, an entry of **NE** is made for reference.

HAZARD RATINGS:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: Health Hazard: **0** (minimal acute or chronic exposure hazard); **1** (slight acute or chronic exposure hazard); **2** (moderate acute or significant chronic exposure hazard); **3** (severe acute exposure hazard; onetime overexposure can cause permanent injury and may be fatal); **4** (extreme acute exposure hazard; onetime overexposure can be fatal). Flammability Hazard: **0** (minimal hazard); **1** (materials that require substantial pre-heating before burning); **2** (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); **3** (Class IB and IC flammable liquids with flash points below 38°C [100°F]); **4** (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F]. Reactivity Hazard: **0** (normally stable); 1 (material that can become unstable at elevated temperatures or which can react slightly with water); **2** (materials that are unstable but do not detonate or which can react violently with water); **3** (materials that can detonate when initiated or which can react explosively with water); **4** (materials that can detonate at normal temperatures or pressures).

NATIONAL FIRE PROTECTION ASSOCIATION: Health Hazard: **0** (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); **1** (materials that on exposure under fire conditions could cause irritation or minor residual injury); **2** (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); **3** (materials that can on short exposure could cause serious temporary or residual injury); **4** (materials that under very short exposure could cause death or major residual injury). Flammability Hazard and Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System".

FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire Protection Association (**NFPA**). Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

TOXICOLOGICAL INFORMATION:

Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: **LD_{50}** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC_{50}** - Lethal Concentration (gases) which kills 50% of the exposed animals; **ppm** concentration expressed in parts of material per million parts of air or water; **mg/m^3** concentration expressed in weight of substance per volume of air; **mg/kg** quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of toxicity include **TDLo**, the lowest dose to cause a symptom and **TCLo** the lowest concentration to cause a symptom; **TDo**, **LDLo**, **LDo**, **TC**, **TCo**, **LCLo**, and **LCo**, the lowest dose (or concentration) to cause lethal or toxic effects. **BEI** - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV. Ecological Information: **EC** is the effect concentration in water.

Data from several sources are used to evaluate the cancer-causing potential of the material. The sources and ratings are: **IARC** - the International Agency for Research on Cancer; 1 = Carcinogenic to humans, 2A, 2B = Probably carcinogenic to humans, 3 = Unclassifiable as to carcinogenicity in humans, and 4 = Probably not carcinogenic to humans. **NTP** - the National Toxicology Program; K =Known to be a human carcinogen, and R = Reasonably anticipated to be a human carcinogen. **RTECS** - the Registry of Toxic Effects of Chemical Substances. **OSHA** - Occupational Safety and Health Administration and **CAL/OSHA** - California's subunit of the Occupational Safety and Health Administration; Ca = Carcinogen defined with no further categorization. **ACGIH –** American Conference of Governmental Industrial Hygienists; A1 = Confirmed human carcinogen, A2 = Suspected human carcinogen, A3 = Confirmed animal carcinogen with unknown relevance to humans, A4 = Not classifiable as a human carcinogen, and A5 = Not suspected as a human carcinogen. **NIOSH** – U.S. National Institute for Occupational Safety and Health; Ca = Potential occupational carcinogen, with no further categorization. **EPA** – U.S. Environmental Protection; A = Human carcinogen, B = Probable human carcinogen, C = Possible human carcinogen, D = Not classifiable as to human carcinogenicity, E = Evidence of Non-carcinogenicity for humans, K = Known human carcinogen, L = Likely to produce cancer in humans, CBD = Cannot be determined, NL = Not likely to be carcinogenic in humans, and I = Data are inadequate for an assessment of human carcinogenic potential.

REGULATORY INFORMATION:

This section explains the impact of various laws and regulations on the material. **EPA** is the U.S. Environmental Protection Agency. **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **DOT** and **TC** are the U.S. Department of Transportation and the Transport Canada, respectively. Superfund Amendments and Reauthorization Act **(SARA)**; the Canadian Domestic/Non-Domestic Substances List **(DSL/NDSL)**; the U.S. Toxic Substance Control Act **(TSCA)**; Marine Pollutant status according to the **DOT**; the Comprehensive Environmental Response, Compensation, and Liability Act **(CERCLA or Superfund)**; and various state regulations. This section also includes information on the precautionary warnings that appear on a material's industrial package label.

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Homax® PRODUCTS, INC.

MSDS

MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME:

HOMAX PRODUCTS, INC.

EASY TOUCH KNOCKDOWN

ITEM #4060, 4065,4165

HAZARDOUS MATERIAL INFORMATION SYSTEM	
HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PROTECTIVE EQUIPMENT	A

(HAZARD RATING: 0=LEAST, 1=SLIGHT, 2=MODERATE, 3=HIGH, 4=EXTREME) (A=SAFETY GLASSES)

SECTION I

MANUFACTURER'S NAME:
HOMAX PRODUCTS, INC.
840 WEST HORTON ROAD
BELLINGHAM WA 98226

24 HOUR EMERGENCY PHONE NUMBER:
CHEMTREC 1-800-424-9300

FORMATION PHONE NUMBER: 1-800-729-9029

DATE OF PREPARATION: 04/22/03

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS NUMBER	DESCRIPTION	PEL	TLV	%
14807-96-6	TALC	20 MPPCH\F	2MG/M	5-10%
107-21-1	ETHYLENE GLYCOL	50PPM	50PPM	1-5%
115-10-6	DIMETHYL ETHER PROPELLA	N/A	N/A	500PPM
14807-96-6	TALC	20 MPPCH/F	2MG/M	5-10%

THE DRIED FILM OF THIS PRODUCT MAY BECOME A DUST NUISANCE WHEN REMOVED BY SANDING OR GRINDING. OSHA RECOMMENDS A PEL/TWA OF 15 mg/m3 FOR TOTAL DUST AND 5mg/m3 FOR THE RESPIRABLE FRACTION. ACGIH RECOMMENDS A TLV/TWA OF 10mg/m3 FOR TOTAL DUST.

SKIN ABSORPTION MAY CONTRIBUTE TO THE OVERALL EXPOSURE TO THIS MATERIAL. TAKE APPROPRIATE MEASURES TO PREVENT SKIN CONTACT.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR:	GRAYISH-WHITE LIQUID WITH TYPICAL LATEX ODOR.
BOILING POINT:	N/E
VAPOR PRESSURE:	>1
WATER SOLUBILITY %:	N/E
VAPOR DENSITY (AIR = 1):	>1
EVAPORATION RATE:	<1
SPECIFIC GRAVITY (WATER = 1):	0.939
% VOLATILITY BY VOLUME:	59.74

N/E = NOT ESTABLISHED

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): N/E

LEL:	N/A
FLAMMABLE LIMITS:	N/E
UEL:	N/A
EXTINGUISHING MEDIA:	USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE, ALCOHOL FOAM.
UNIFORM FIRE CODE STANDARD 88-1	LEVEL ONE AEROSOL

SPECIAL FIREFIGHTING PROCEDURES:

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IF DUSTY CONDITIONS ARE PRESENT. USE WATER SPRAY TO COOL EXPOSED CONTAINTERS. IF POSSIBLE, LET BURN UNTIL SOURCE OF GAS IS SHUT OFF. SEVERE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CLOSED CONTAINERS MAY EXPLOSE DUE TO BUILD UP OF PRESSURE FROM EXTREME HEAT OF FIRE. MIXTURES WITH AIR ARE HIGHLY FLAMMABLE.

SECTION V - REACTIVITY DATA

STABILITY:

MATERIAL IS STABLE. HAZARDOUS PLOYMERIZATION WILL NOT OCCUR.

INCOMPATIBILITY (MATERIALS TO AVOID):

BASED ON THE PRESENCE OF COMPONENET 2 AVOID OXIDIZING MATERIALS, AVOID ALKALIES, HIGH TEMPERATURE, KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. STRONG OXIDIZING AGENTS, OXYGEN, AVETIC ACID, ORGANIC ACID ANHYDRIDES.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED BURING COMBUSTION.

CONDITIONS TO AVOID:

TEMPERATURES ABOVE 1500F. HYDROFLUORIC ACID. AVOID HIGH TEMPERATURE, IGNITION SOURCES.

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION: YES SKIN: YES INGESTION: YES

HEALTH HAZARDS (ACUTE AND CHRONIC):

BASED ON THE PRESENCE OF COMPONENT 1 CHRONIC OVER EXPOSURE TO TALC DUST MAY CAUSE SCARRING OF THE LUNGS. BASED ON THE PRESENCE OF COMPONENT 2 PRODUCT IS PRESUMED TO BE AN ANIMAL TERATOGEN. EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY PRODUCE ANESTHETIC EFFECTS. EYE OR SKIN CONTACT WITH LIQUID MAY PRODUCE BURNS DUE TO THE FREEZING EFFECT.

INHALATION:

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENT 2 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENET MAY BE HARMFUL OR FATAL. EXPOSURE TO HIGH VAPOR CONCENTRATION MAY PRODUCE ANESTHETIC EFFECTS.

INGESTION:

BASED ON THE PRESENCE OF COMPONENT 2 PRODUCT IS PRESUMED TO BE MODERATELY TOXIC. BASED ON THE PRESENCE OF COMPONENT 2 INGESTION MAY CAUSE KIDNEY DAMAGE. BASED ON THE PRESENCE OF COMPONENT 2 INGESTION MAY CAUSE LUMBAR PAIN, OLIGURIA OR UREMIA. BASED ON THE PRESENCE OF COMPONENT 2 INGESTION MAY CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.

CARCINOGENICITY: NTP - NO IARC MONOGRAPHS - NO OSHA REGULATED - NO

SIGNS AND SYMPTOMSOF EXPOSURE:

SYMPTOMS OR EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SWELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH, AND REDUCED LUNG FUNCTION. SYMPTOMS OF GASTROINTESTINAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. BASED ON THE PRESENCE OF COMPONENT 2 CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. SYMPTOMS OF CHRONIC OVEREXPOSURE INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION. CONTACT WITH LIQUID MAY PRODUCE FREEZING EFFECTS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PREEXISTING EYE, SKIN OR REISPIRATORY DISORDERS MAY BE AGGREAVATED. IMPAIRED CENTRAL NERVOUS SYSTEM FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

EMERGENCY AND FIRST AID PROCEDURES:

IF INHALED:

REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET IMMEDIATE MEDICAL ATTENTION.

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION IF SYMPTOMS PERSIST.

SKIN CONTACT:

IMMEDIATELY WASH SKIN WITH LOTS OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS AFTER WASHING.

INGESTION:

DILUTE WITH TWO GLASSES OF WATER UNLESS THE VICTIM IS UNCONSCIOUS OR VERY DROWSY. INDUCE VOMITING BY GIVING TWO TABLESPOONS IPECAC OR BY TOUCHING A FINGER TO THE BACK OF THE VICTIM'S THROAT. KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND / OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

NOTES TO PHYSICIAN:

COMPONENT 2 ETHYLENE GLYCOL MAY CAUSE KIDNEY DAMAGE AND METABOLIC ACIDOSIS. ETHANOL IS ANTIDOTAL, AND ITS EARLY ADMINISTRATION MAY BLOCK THE FORMATION OF NEPHROTOXIC METABOLITES OF ETHYLENE GLYCOL IN THE LIVER. ETHANOL SHOULD BE GIVEN INTRAVENOUSLY, AS A 5% SOLUTION IN SODIUM BICARBONATE, AT A RATE OF ABOUT 10ml ETHANOL PER HOUR. A DESIRED THERAPEUTIC LEVEL OF ETHANOL IN BLOOD IS 100mg/dl. HEMODIALYSIS MAYBE REQUIRED. PULMONARY EDEMA WITH HYPOXEMIA HAS BEEN DESCRIBED IN A NUMBER OF PATIENTS FOLLOWING POISONING WITH ETHYLENE GLYCOL. THE MECHANISM OF PRODUCTION HAS NOT BEEN ELUCIDATED, BUT IT APPEARS TO BE NONCARDIOGENIC IN ORIGIN IN SEVERAL CASES. RESPIRATORY SUPPORT WITH MECHANICAL VENTILATION AND POSITIVE END-EXPIRATORY PRESSURE MAY BE REQUIRED.

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

FOR LARGE SPILLS EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NONLEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. REMOVE ALL SOURCES OF IGNITION: SPARKS,

STATIC ELECTRICITY & ELECTRICAL. VENTILATE AREA. DISPERSE WITH WATER SPRAY. KEEP PERSONNEL UP-WIND.
FOR SMALL SPILLS TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NONLEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

WASTE DISPOSAL:

DISPOSE OF CONTAMINATED PRODUCT AND MATERIALS USED IN CLEANING UP SPILLS AND LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APPROPRIATE FEDERAL, STATE AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER PROCEDURES. BURN UNDER CONTROLLED CONDITIONS. DO NOT INCINERATE CLOSED CONTAINERS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN COOL, DRY PLACE. KEEP BAGS AND CONTAINERS DRY AT ALL TIMES. WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO NOT STORE ABOVE 120 DEG. F. DO NOT STORE NEAR HEAT, SPARKS OR FLAME. PROTECT FROM ALL SOURCES OF IGNITION.

OTHER PRECAUTIONS:

CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, WILL RETAIN PRODUCT RESIDUE. ALWAYS OBEY HAZARD WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL. DO NOT GET IN EYES, BREATHE VAPORS. AVOID SKIN CONTACT. DO NOT TAKE INTERNALLY. SMOKING WHEN USING THIS PRODUCT MUST BE STRICTLY PROHIBITED.

SECTION VIII –CONTROL MEASURES

RESPIRATORY PROTECTION:

USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS AT LEAST 10 AIR CHANGES PER HOUR AREA RECOMMENDED FOR GOOD GENERAL ROOM VENTILATION. IF EXPOSURE EXCEEDS THE PEL/TLV, USE A NIOSH-APPROVED DUST RESPIRATOR OR MASK PER REQUIREMENTS OF 29 CFR 1910.134.

VENTILATION:

USE LOCAL EXHAUST CAPABLE OF MINIMIZING VAPOR CONCENTRATIONS AT POINT OF USE. ALL APPLICATION AREAS SHOULD BE ADEQUATELY VENTILATED IN ORDER NOT TO EXCEED SECTION II COMPONENT TLV.

PROTECTIVE GLOVES:

USE NEOPRENE OR OTHER SOLVENT RESISTANT GLOVES TOPREVENT SKIN CONTACT.

EYE PROTECTIONS:

NIOSH-APPROVED DUST GOGGLES OR A SPLASH SHIELD SHOULD BE USED TO PREVENT SKIN CONTACT. CONTACT LENSES SHOULD NOT BE WORN.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

LONG-SLEEVED SHIRT, TROUSERS AND SAFETY SHOES. FREEZING RESISTANT GLOVES ARE RECOMMENDED.

WORK/HYGIENIC PRACTICES:

AVOID SKIN OR EYE CONTACT. DO NOT BREATH VAPORS. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. AN EYEWASH AND SAFETY SHOWER SHOULD BE NEARBY AND READY FOR USE.

SECTION IX- DISCLAIMER

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE, OBTAINED FROM SOURCES BELIEVED BY HOMAX PRODUCTS, INC. TO BE ACCURATE. SINCE THE CONDITIONS AND METHODS OF USE OF OUR PRODUCTS ARE BEYOND OUR CONTROL, WE DISCLAIM ANY AND ALL LIABILITY ARISING OUT OF THE IMPROPER USE OF THESE PRODUCTS OR THE INFORMATION PROVIDED HEREWITH.
SHIPPING CLASSIFICATION: ORM-D HAZARDOUS MATERIAL DEFINED BY THE DOT.
PROPER SHIPPING NAME: CONSUMER COMMODITY

MSDS

MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME:

HOMAX PRODUCTS, INC.

EASY TOUCH SPRAY TEXTURE (R)

ITEM #4050, 4055, 4101, 4155

HAZARDOUS MATERIAL INFORMATION SYSTEM	
HEALTH	2
FLAMMABILITY	4
REACTIVITY	0
PROTECTIVE EQUIPMENT	J

(HAZARD RATING: 0=LEAST, 1=SLIGHT, 2=MODERATE, 3=HIGH, 4=EXTREME) (J=SPLASH GOGGLES, GLOVES, SYNTHETIC APRON, DUST & VAPOR RESPIRATOR)

SECTION I

MANUFACTURER'S NAME:
HOMAX PRODUCTS, INC.
468 W. HORTON RD.
BELLINGHAM WA 98226

24 HOUR EMERGENCY PHONE NUMBER:
CHEMTREC 1-800-424-9300

NFORMATION PHONE NUMBER: 1-800-729-9029

DATE OF PREPARATION: 03/05/03

SECTION IIA - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS NUMBER	DESCRIPTION	WEIGHT PERCENT	-OCCUPATIONAL EXPOSURE LIMITS- OSHA PEL**	AOGIH TLV	OTHER	VAPOR PRESS. mm HG	TEMP
01330-20-7	XYLENE	12	100PPM	100PPM	434 mg/m3	25	77
00100-41-4	ETHYL BENZENE	2.2	100PPM	100PPM	434 mg/m3	10	77
00071-13-2	BENZENE	*Trace					
64742-89-8	PETROLEUM NAPTHA, ALKANES & NAPHTHENES	8	NOT EST	300PPM		80	70
00074-98-6	PROPANE	6	SIMPLE	ASPHIXIANT	1000PPM	3619	70
00075-28-5	ISOBUTANE	2	NOT EST	800PPM	(ESTIMATE)		
01330-20-7	XYLENE	9	100PPM	100PPM	434MG/M3	25	77
13463-67-7	TITANIUM DIOXIDE	2	10 mg/m3	10 mg/m3	(DUST)		
00067-64-1	ACETONE	9	750PPM	750PPM	1780 mg/m3	181	68

* Trace quantities less than 0.1% and greater than 0.005%
**PELs represent lowered 1989 limits and may not be enforceable by Federal OSH

SECTION IIB - OTHER REGULATORY INFORMATION

CAS NUMBER	DESCRIPTION	CARCINOGEN NTP	IARC	OSHA	SARA TITLE III 302	313	CALIFORNIA P65	I	II
01330-20-7	XYLENE					X		X	
00100-41-4	ETHYL BENZENE					X			
00071-13-2	BENZENE		X			X	X	X	
64742-89-8	PETROLEUM NAPTHA, ALKANES & NAPHTHENES								
00074-98-6	PROPANE								
00075-28-5	ISOBUTANE								
00108-88-3	TOLUENE					X	X	X	

13463-67-7 TITANIUM DIOXIDE
00087-84-1 ACETONE

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE:	-13 TO 2500 DEG F
VAPOR DENSITY:	HEAVIER THAN AIR
CALCULATED V.O.C.:	3.95LB/GL(474GR/LT)
SOLUBILITY IN WATER:	NON-SOLUABLE
APPEARANCE AND ODOR:	OPAQUE LIQUID, PETROLEUM ODOR
WT/GAL:	11.71 (WITH PROP: 8.85)
EVAPORATION RATE:	SAME AS (n-Butyl acetate=MEDIAN)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

OSHA FLAMMABILITY CLASS:	FLAMMABLE LIQUID CLASS 1A
UNIFORM FIRE CODE STANDARD 88-1	LEVEL 1 AEROSOL
BULK FLASH POINT:	-4 DEG F METHOD USED: P-MARTEN
BULK PROPELLANT FLASH POINT:	-158 DEG F
PACKAGED PRODUCT FLAME EXTENSION:	28
FLAMMABLE LIMITS IN AIR BY VOLUME:	LOWER: 1.0% UPPER: 12.8%
EXTINGUISHING MEDIA:	FOAM, CO2, DRY CHEMICAL, WATER FOG

DOT/CERCLA:

THE DOT/CERCLA REPORTABLE QUANTITY (RQ) FOR THIS PRODUCT IS 1004 GALLONS BASED ON XYLENE RQ 1000 LBS.

SPECIAL FIREFIGHTING PROCEDURES:

EVACUATE ALL UNNECESSARY PERSONNEL. USE FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS. USE WATER SPRAY, PREFERABLY FOG, TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE EXPLOSION. DO NOT ALLOW PRODUCT OR RUNOFF FROM FIRE CONTROL TO ENTER STORM OR SANITARY SEWERS, LAKES, RIVERS, STREAMS, OR WATERWAYS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

EXPLOSIVE AIR-VAPOR MIXTURES MAY FORM WHICH ARE DANGEROUS WHEN EXPOSED TO HEAT OR FLAME. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND, OR BE MOVED BY VENTILATION, AND IGNITED BY PILOT LIGHTS, STOVES, HEATERS, ELECTRIC MOTORS, SPARKS, FLAME, SMOKING, STATIC DISCHARGE OR OTHER IGNITION SOURCES EVEN AT LOCATIONS DISTANT FROM MATERIAL HANDLING SITE. CONTENTS UNDER PRESSURE. EXPOSURE TO HEAT OR PROLONGED EXPOSURE TO SUN MAY CAUSE BURSTING.

SECTION V - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, IRRITATING FUMES, HYDROCARBONS, NITROGEN OXIDES, WATER VAPORS, TOXIC MATERIALS, AMMONIA FUMES.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS, ACIDS, ALKALIS, WATER, CHLORINATED COMPOUNDS, COPPER, BASES.

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: HIGH TEMPERATURE AND HUMIDITY, IGNITION SOURCE, VAPOR BUILD-UP.

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF EXPOSURE: INHALATION, SKIN CONTACT

ACUTE EFFECTS FORM SHORT TERM EXPOSURE:

INHALATION:

VAPORS AND MISTS IRRITATE NOSE, THROAT AND LUNGS (BURNING, STINGING, COUGHING). MAY CAUSE HEADACHE, DIZZINESS, NAUSEA, WEAKNESS, SHORTNESS OF BREATH AND LOSS OF COORDINATION. EXPOSURE TO EXTREMELY HIGH VAPOR CONCENTRATIONS MAY CAUSE

UNCONSCIOUSNESS AND ASPHYXIATION. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

EYES: CONTACT WITH LIQUID OR VAPORS CAUSES SEVERE IRRITATION (REDNESS, WATERING, ITCHING, STINGING, BLURRED VISION).

SKIN: CONTACT CAUSES SEVERE IRRITATION (DRYNESS, ITCHING, CRACKING, RASH, SWELLING) AND POSSIBLE BURNS.

SKIN ABSORPTION: NONE KNOWN

SWALLOWING: CAUSES NAUSEA, VOMITING, DIARRHEA AND CENTRAL NERVOUS SYSTEM DEPRESSION (HEADACHE, DIZZINESS, GIDDINESS, NAUSEA, LOSS OF COORDINATION).

CHRONIC EFFECTS FROM LONG TERM/REPEATED EXPOSURE:
LONG-TERM OR REPEATED OVER EXPOSURE, WITHOUT PROPER VENTILATION OR PERSONAL PROTECTION, MAY CAUSE DAMAGE TO: KIDNEYS, LIVER, HEART, BRAIN AND NERVOUS SYSTEM.

OTHER: N/A

CARCINOGEN DATA: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
RESPIRATORY TRACT IRRITATION, NAUSEA, SKIN AND EYE DISORDERS, SENSITIZATION TO CHEMICAL SUBSTANCES.

SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING:
IN CASE OF ACCIDENTAL INGESTION, CALL POISON CENTER, EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY.

INHALATION:
IF AFFECTED BY BREATHING ODORS OR VAPORS, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST.

EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES, WHILE LIFTING UPPER AND LOWER EYELIDS. GET MEDICAL ATTENTION.

SKIN: WASH WITH SOAP AND WATER. REMOVE AND CLEAN CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

OTHER: N/A

SECTION VIII - PERSONAL PROTECTION

RESPIRATORY PROTECTION:
IF AFFECTED BY BREATHING VAPORS OR ODORS, WEAR A PROPERLY FITTED RESPIRATOR (NIOSH/MSHA TC23C OR EQUIVALENT) DURING USE. IF PRODUCT GIVES OFF SPRAY MIST, AVOID BREATHING BY WEARING RESPIRATOR PREFILTER OR PARTICLE MASK.

VENTILATION:
OPEN DOORS AND WINDOWS TO PROVIDE FRESH AIR VENTILATION, IN WORK AND IN SURROUNDING AREAS, DURING AND AFTER APPLICATION UNTIL ALL VAPOR (FUMES) ARE GONE.

HAND PROTECTION:
WEAR GLOVES TO AVOID SKIN CONTACT.

EYE PROTECTION:
WEAR SAFETY GLASSES OR GOGGLES TO PROTECT EYES FROM SPLASH AND SPRAY MIST. NOTE: CONTACT LENSES MAY CONTRIBUTE TO THE SEVERITY OF AN EYE INJURY AND SHOULD NOT BE WORN WHEN WORKING WITH CHEMICAL PRODUCTS.

OTHER PROTECTIVE EQUIPMENT:

WHEN NECESSARY, WEAR PROTECTIVE CLOTHING TO AVOID SKIN CONTACT WITH LIQUID AND OVERSPRAY.

WORK/HYGIENIC PRACTICES:

WASH HANDS AFTER USING AND BEFORE EATING, DRINKING, OR USING TOBACCO PRODUCTS. THOROUGHLY CLEAN CONTAMINATED CLOTHING AND SHOES BEFORE REUSE.

SPILL OR LEAK PROCEDURES:

ELIMINATE IGNITION SOURCES AND VENTILATE AREA. EVACUATE ALL UNNECESSARY PERSONNEL. WEAR PROTECTIVE EQUIPMENT. DIKE DRAINS TO PREVENT ENTERING STORM OR SANITARY SEWERS, LAKES, RIVERS, STREAMS, OR WATERWAYS. CONTAIN SPILL AND COVER WITH INERT ABSORBENT MATERIAL. TAKE UP USING NON-SPARKING TOOLS (ALUMINUM, BRASS, OR COPPER) AND PLACE MIXTURE INTO CONTAINERS FOR DISPOSAL. NOTE: SOME SPILLS OR RELEASES MAY REQUIRE SPECIAL REPORTING TO LOCAL, STATE, OR FEDERAL AGENCIES.

WASTE DISPOSAL:

WASTE MATERIAL AND EMPTY CONTAINERS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL ENVIRONMENTAL CONTROL REGULATIONS. USE ONLY APPROVED WASTE MANAGEMENT FACILITIES.

SPECIAL PRECAUTIONS:

HANDLING PRECAUTIONS:

KEEP LIQUID AND VAPORS AWAY FROM HEAT, SPARKS AND FLAME. TURN OFF OR REMOVE ALL SOURCES OF IGNITION. USE PROPER METHODS OF VENTILATION TO PREVENT VAPOR BUILD-UP. AVOID SPRAYING HOT SURFACES. AVOID BREATHING VAPORS AND SPRAY MISTS. AVOID CONTACT WITH EYES AND SKIN. DO NOT TAKE INTERNALLY. USE ADEQUATE METHODS OF VENTILATION, RESPIRATORY AND PERSONAL PROTECTION EQUIPMENT. DO NOT HEAT, PUNCTURE OR INCINERATE CONTAINERS. CONTENTS ARE UNDER PRESSURE AND MAY CONTAIN EXPLOSIVE VAPORS, EVEN WHEN EMPTY. DO NOT REMOVE OR DEFACE LABEL.

SHIPPING AND STORAGE PRECAUTIONS:

CONTENTS UNDER PRESSURE. DO NOT STORE ABOVE 120 DEGREES F. OR PERMIT PROLONGED EXPOSURE TO SUNLIGHT. PROTECT CONTAINERS FROM DAMAGE. STORE IN BUILDINGS OR AREAS DESIGNED AND PROTECTED FOR STORAGE OR AEROSOLS. KEEP OUT OF REACH OF CHILDREN.

SECTION IX- DISCLAIMER

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE, OBTAINED FROM SOURCES BELIEVED BY HOMAX PRODUCTS, INC. TO BE ACCURATE. SINCE THE CONDITIONS AND METHODS OF USE OF OUR PRODUCTS ARE BEYOND OUR CONTROL, WE DISCLAIM ANY AND ALL LIABILITY ARISING OUT OF THE IMPROPER USE OF THESE PRODUCTS OR THE INFORMATION PROVIDED HEREWITH.

SHIPPING INFORMATION:
PRODUCT CLASSIFICATION: ORM-D
HAZARD CLASS: CONSUMER COMMODITY
UN IDENTIFICATION NUMBER: N/A
DOT LABEL (S) REQUIRED: N/A
PACKAGING GROUP: N/A

Homax PRODUCTS, INC.

MSDS

MATERIAL SAFETY DATA SHEET

PART I *What is the material and what do I need to know in an emergency?*

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): **HOMAX Waterbased ORANGEPEEL & SPLATTER Spray Texture**
PRODUCT CODES: 4091, 4092, 4192, 4091-06,4092-06, 4091-10-06
PRODUCT USE: Patching Interior Texture
SUPPLIER/MANUFACTURER'S NAME: **HOMAX PRODUCTS, INC.**
ADDRESS: 200 Westerly Rd.
Bellingham, WA 98226
CHEMTREC EMERGENCY NO.: 1-800-424-9300 (United States)
1-703-527-3887 (International Collect)
BUSINESS PHONE: 1-800-729-9029
DATE OF PREPARATION: Nov. 16, 2006

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR						
			ACGIH-TLV		OSHA-PEL		NIOSH-REL		
			TWA mg/m^3	STEL mg/m^3	TWA mg/m^3	STEL mg/m^3	TWA mg/m^3	STEL mg/m^3	IDLH/OTHER mg/m^3
Calcium Carbonate	1317-65-3	30 - 60	10	NE	15 * 5 **	NE	10 * 5 **	NE	NE
Dimethyl Ether (Propellant)	115-10-6	7 - 13	NE	NE	NE	NE	NE	NE	DFG MAK: IDLH**:** 1900 Peak: II (8)
Talc	14807-96-6	1 - 5	2 **	NA	20	NA	2 *	NE	1000
Isopropyl alcohol	67-63-0	3 - 7	492	984	980	NE	980	1225	2,000 (10% LEL)
Silica Quartz	14808-60-7	0.1-1	0.05 **R**	NE	10 mg/m^3 ** % SiO_2+2	NE	0.05 *	NE	50
Water and ingredients present in concentrations of less than 1% (or less than 0.1% if carcinogens)		Balance	The ingredients in the balance of this product do not contribute significant hazards beyond those described in this document. All pertinent health, safety and environmental information have been presented, per the requirements of the US Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canadian WHMIS.						

NE = Not Established. See Section 16 for Definitions of Terms Used.

NOTE (1): ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

NOTE (2):* Total dust; ** Respirable fraction; **R** = Measured as respirable fraction of the aerosol.

NOTE (3): The component Nicron 403, is free of crystalline silica and asbestos; therefore, carcinogenicity does not apply.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

PHYISCAL DESCRIPTION: This product is a white colored aerosol with a slight ethereal odor.

HEALTH HAZARD: This product is harmful if it is inhaled or swallowed. This product may cause severe irritation to the eyes or skin. If particulates of this product are inhaled, severe irritation of the respiratory system (i.e. lungs, nose, and throat), central nervous system, and gastrointestinal tract could occur.

FIRE HAZARD: This product is a flammable liquid and vapor (aerosol), with its contents under pressure. HOMAX EASY TEXTURE ORANGEPEEL & SPLATTER propellant has a flash point of - 42°F / -41°C.

REACTIVITY HAZARD: Minimal Hazard; the product is normally stable under ordinary conditions of use and storage.

ENVIRONMENTAL HAZARD: This product is does not normally present a significant hazard to aquatic or terrestrial life.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:

The most significant route of occupational overexposure is contact with skin, eyes, and inhalation. The symptoms of overexposure to this product are as follows:

INHALATION: If inhalation of product's mists or vapors occurs, severe respiratory system irritation or nervous system depression may develop. Nervous system depression is characterized by headache, dizziness, nausea, or possible unconsciousness. CONTACT WITH SKIN or EYES: Contact can cause severe eye or skin irritation. Symptoms of eye exposure may include redness, pain, burning sensation, and tearing. Prolonged skin contact may result in redness, irritation, and dermatitis.

SKIN ABSORPTION: May cause irritation or burning sensation.

INGESTION: Ingestion is not anticipated to be a significant route of occupational exposure. If the product is swallowed, severe irritation of the mouth, throat, and other tissues of the gastro-intestinal system may occur. Ingestion of large amounts may cause irritation, pain, vomiting, and diarrhea.

INJECTION: Accidental injection of this product may cause mild irritation and swelling, in addition to the wound.

Hazardous Materials Identification System (HMIS)

Health	**1***
Flammability	**4**
Physical Hazard	**1**
Protective Equipment	**A**

See Section 16 for Definition of Ratings

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in **Lay Terms**.

ACUTE: Depending on the duration of contact, overexposures can severely irritate the eyes, skin, lungs, respiratory tract and nervous system. Symptoms of exposure generally alleviated when overexposure ends.

CHRONIC: Long-term skin contact may result in dermatitis.

TARGET ORGANS: Acute: Eyes, Skin, Lungs, CNS, and Respiratory tract. Chronic: Skin

PART II *What should I do if a hazardous situation occurs?*

4. FIRST-AID MEASURES

Victims of chemical exposure must be taken for medical attention if any adverse effects occur. Take a copy of label and MSDS to physician or health professional with victim.

SKIN EXPOSURE: If this product contaminates the skin, immediately begin decontamination with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim must seek immediate medical attention if any adverse exposure symptoms develop.

EYE EXPOSURE: If this product enters the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Victim must seek medical attention.

INHALATION: If this product is inhaled, blow nose and remove victim to fresh air. INGESTION: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT INDUCE VOMITING, unless directed by medical personnel. Have victim rinse mouth with water, if conscious. Never induce vomiting or give

4. FIRST-AID MEASURES - Continued

a diluent (e.g., water) to someone who is unconscious, having convulsions, or unable to swallow. If contaminated individual is convulsing, maintain an open airway and obtain immediate medical attention.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing conditions of pulmonary, dermatitis, and conjunctivitis disorders.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: 30^0F (-1.1^0C)

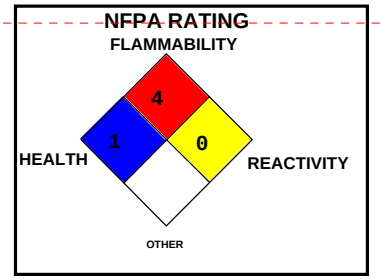
AUTOIGNITION TEMPERATURE: 662^0F (350^0C) (Dimethyl ether propellant)

FLAMMABLE LIMITS (in air by volume, %):

Lower: 3.4% (Dimethyl ether propellant)
Upper: 27% (Dimethyl ether propellant)

FIRE EXTINGUISHING MATERIALS: Use extinguishing material suitable to the surrounding fire.

Water Fog: OK
Foam: OK
Halon: OK
Carbon Dioxide: OK
Dry Chemical: OK



UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode due to build up of pressure from extreme heat or fire.

Explosion Sensitivity to Mechanical Impact: Do not puncture.
Explosion Sensitivity to Static Discharge: Primarily vapors.

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move containers from fire area if it can be done without risk to personnel. Exercise caution; contaminated floors and surfaces can be sticky. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

See Section 16 for Definition of Ratings

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area and protect people. Releases of this material may be sticky. If the product is dried, and dusts may be generated during clean-up, dampen material prior to clean-up to avoid airborne particulates.

RESPONSE TO INCIDENTAL RELEASES: Small scale releases, such as 1 container of this product, can generally be handled by personnel who have received basic chemical safety training. Respond to incidental chemical releases by wearing gloves, goggles, and appropriate body protection and by following the instructions for use presented above.

RESPONSE TO NON-INCIDENTAL RELEASES: Respond to non-incidental chemical releases of this product, such as the simultaneous puncturing of several containers, by clearing the impacted area and contacting appropriate emergency personnel. Clean up should only be done by qualified personnel. Responders should wear the level of protection appropriate to the type of chemical released, the volume of the material spilled, and the location where the incident has occurred. Minimum Personal Protective Equipment should be Level C: triple-gloves, chemical resistant apron, boots, and splash goggles and an Air-Purifying respirator with high-efficiency particulate filter.

RESPONSE EQUIPMENT AND PROCEDURES: Wipe-away spilled paste with damp polypads or other suitable absorbent materials, or scrape carefully with plastic tools. Decontaminate the area thoroughly. Place all spill residues in a suitable container and seal. Dispose of in accordance with applicable U.S. Federal, State, or local procedures or appropriate standards of Canada (see Section 13, Disposal Considerations).

PART III *How can I prevent hazardous situations from occurring?*

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after using this product. Do not eat or drink while using this material. Avoid generating dusts and particulates of this product. If sanding, use with adequate ventilation. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: All employees who handle this material should be trained to use it safely. Open containers carefully on a stable surface. Empty containers may contain residual material; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see Section 10, Stability and Reactivity). Keep container tightly closed when not in use. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely if necessary. Collect all rinsates and dispose of according to applicable U.S. Federal, State, or local procedures or appropriate Canadian standards.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in Section 2 (Composition and Information on Ingredients). Ensure adequate ventilation is available when sanding. Ensure eyewash/safety shower stations are available near areas where this product is used.

RESPIRATORY PROTECTION: None needed under normal conditions of use. Use a dust respirator for large jobs if dusts cannot otherwise be eliminated.

EYE PROTECTION: For consumer use, wearing eye protection (such as splash goggles) is advisable. However, for specific industrial applications, enhanced eye protection may be necessary. Use approved safety goggles or safety glasses, as described in OSHA 29 CFR 1910.133. If necessary, refer to U.S. OSHA 29 CFR 1910.133, or appropriate Canadian standards.

HAND PROTECTION: For consumer use, wearing protective gloves is recommended. For specific industrial applications, wear chemical impervious gloves (e.g., Neoprene, nitrile). If necessary, refer to U.S. OSHA 29 CFR 1910.138 or the appropriate standards of Canada.

BODY PROTECTION: For consumer use, no specific body protection is normally needed. For specific industrial applications, body protection is not routinely necessary, but may be warranted if excessive dusts may be generated. Use body protection appropriate for task (e.g., Tyvek suit, rubber apron). If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

HMIS PERSONAL PROTECTIVE EQUIPMENT RATING: Industrial Use situations: (A) Eye Protection.

9. PHYSICAL and CHEMICAL PROPERTIES

RELATIVE VAPOR DENSITY (air = 1): Heavier than air

EVAPORATION RATE (BuAc =1): Faster than n-butyl acetate

SPECIFIC GRAVITY: 0.9

MELTING POINT: 32^{o}F (0^{o}C)

SOLUBILITY IN WATER: Soluble in water

BOILING POINT: -13 ^{o}F (10.5 ^{o}C)

VAPOR PRESSURE, mm Hg @ 24°C:

pH: NA

ODOR THRESHOLD: NA

COEFFICIENT OF OIL/WATER DISTRIBUTION (PARTITION COEFFICIENT): NA

V.O.C.: < 60% MIR: < 1.20

APPEARANCE, ODOR AND COLOR: This product is a white colored aerosol with a slight ethereal odor

HOW TO DETECT THIS SUBSTANCE (warning properties): The appearance and odor of this product may act as warning properties in the event of an accidental release.

10. STABILITY and REACTIVITY

STABILITY: Stable under normal circumstances of use and handling.

DECOMPOSITION PRODUCTS: Thermal decomposition of this product may generate dusts, irritating fumes, and toxic gases (e.g., carbon monoxide, carbon dioxide).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: This product is not compatible strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid contact with incompatible chemicals and high temperatures.

PART IV *Is there any other useful information about this material?*

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following toxicology information is available for components greater than 1% in concentration.

The following data are available for Dimethyl ether:
Inhalation-Rat LC_{50}: 308 g/m3
Inhalation-Mouse LC_{50}: 386,000 ppm/30M
Inhalation-Rat TC_{Lo}: 2 pph/6H/30W-I

The following data are available for Isopropyl alcohol:
Skin-Rabbit, adult 500 mg Mild irritation effects
Eye effects-Rabbit, adult 16 mg
Eye effects-Rabbit, adult 10 mg Moderate irritation effects
Cytogenetic Analysis System-Saccharomyces cerevisiae 200 mmol/tube
Cytogenetic Analysis System-Rat-Inhalation 1030 mg/m3/16W-I
Oral-Rat TDLo:6480 mg/kg (male 26W pre):Reproductive effects
Inhalation-Rat TCLo:10,000 ppm/7H (female 1-19D post):Teratogenic effects
Oral-Man TDLo:14,432 mg/kg: Central nervous system effects, Cardiovascular effects, Pulmonary system effects
Oral-Human TDLo:223 mg/kg: Central nervous system effects, Cardiovascular effects
Oral-Man LDLo:5272 mg/kg AJCPAI 38,144,62
Oral-Human LDLo:3570 mg/kg: Central nervous system effects, Pulmonary system effects, Gastrointestinal tract effects
Unreported-Man LDLo:2770 mg/kg
Oral-Rat LD_{50}:5045 mg/kg
Inhalation-Rat LCLo:16,000 ppm/4H
Intraperitoneal-Rat LD_{50}:2735 mg/kg
Intravenous-Rat LD_{50}:1099 mg/kg
Oral-Mouse LD_{50}:3600 mg/kg
Inhalation-Mouse LCLo:12,800 ppm/3H
Intraperitoneal-Mouse LD_{50}:4477 mg/kg
Subcutaneous-Mouse LDLo:6000 mg/kg
Intravenous-Mouse LD_{50}:1509 mg/kg
Oral-Dog, adult LD_{50}:4797 mg/kg
Intravenous-Dog, adult LDLo:5120 mg/kg
Intravenous-Cat, adult LDLo:1963 mg/kg
Oral-Rabbit, adult LD_{50}:6410 mg/kg
Skin-Rabbit, adult LD_{50}:12,800 mg/kg

The following data are available for Talc:
Skin-Human 300 mg/3D-I Mild irritation effects
Inhalation-Rat TCLo:11 mg/m3/1Y-I:Equivocal tumorigenic agent

The following data are available for Calcium Carbonate, Vinyl Acrylic Copolymer, and Silica Quartz:
None available

SUSPECTED CANCER AGENT: The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency.

CHEMICAL	IARC	NTP	ACGIH	NIOSH	OSHA	CA PROP 65
Calcium Carbonate	NO	NO	NO	NO	NO	NO
Dimethyl Ether	NO	NO	NO	NO	NO	NO
Talc	3	NO	A4	NO	NO	NO
Vinyl Acrylic Copolymer	NO	NO	NO	NO	NO	NO
Isopropyl alcohol	3	NO	NO	NO	NO	NO
Silica Quartz	1	Known	Ca	NO	A2	YES

Note: See section 16 for definition of ratings

11. TOXICOLOGICAL INFORMATION - Continued

IRRITANCY OF PRODUCT: This product can be severely irritating to contaminated tissue.

SENSITIZATION TO THE PRODUCT: The components of this product are not reported to be sensitizers.

TOXICOLOGICAL SYNERGISTIC PRODUCTS: None known.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: This product is not expected to produce mutagenic effects in humans when used as instructed.
Embryotoxicity: This product is not expected to produce embryotoxic effects in humans when used as instructed.
Teratogenicity: This product is not reported to cause teratogenic effects in humans when used as instructed.
Reproductive Toxicity: This product is not reported to cause reproductive effects in humans when used as instructed.

A mutagen is a chemical that causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical that causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance that interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURES INDICES (BEIs): There is no BEI currently established for this substance.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: The following environmental data is available for components of this product: The mineral components of this product are stable in the environment.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: This product is not anticipated to cause significant effects on terrestrial plants or animals if released in small, consumer-sized volumes. This product may be harmful to animal life if large volumes of it are released into the environment. Refer to Section 11 (Toxicological Information) for specific animal data.

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product is not anticipated to cause significant effects on aquatic plants or animals if released in small, consumer-sized volumes. This product may be harmful to contaminated aquatic life (especially if large volumes of it are released into an aquatic environment). The following aquatic toxicity data is available for components of this product: NONE

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: **Consumer Waste:** Dispose of according to pertinent state and local household waste and requirements**. Industrial Use:** Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations or with regulations of Canada.

EPA WASTE NUMBER: Not applicable to wastes consisting only of this product; however, the specific RCRA codes depend on the exact nature of the discarded material.

14. TRANSPORTATION INFORMATION

THIS PRODUCT IS HAZARDOUS PER 49 CFR 172.101, THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:	Aerosols
HAZARD CLASS NUMBER and DESCRIPTION:	2.1(Flammable Gas)
UN IDENTIFICATION NUMBER:	UN1950
DOT LABEL(S) REQUIRED:	Flammable Gas
PACKAGING GROUP:	N/A

NORTH AMERICAN RESPONSE GUIDEBOOK NUMBER (2000): 126
MARINE POLLUTANT: No component is designated as a DOT Marine Pollutant.

Consumer commodities (per 173.306 (h)): A limited quantity that conforms to the provisions of paragraph (a) (1), (a) (3), or (b) of this section and is a "consumer commodity" (per 49 CFR 171.8) can be renamed “Consumer commodity” and reclassified as an ORM-D Material. Each package may not exceed 30 kg (66 pounds)gross weight. Reference 173.306 (a) (3): Limited quantities of compressed gases may be shipped when in a metal container for the sole purpose of expelling a nonpoisonous liquid, paste, or powder.

14. TRANSPORTATION INFORMATION - Continued

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: The above-listed DOT basic description applies to this product under the regulations of Transport Canada.

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:

EPA REPORTING REQUIREMENTS: The following reporting requirements are applicable to components of this product:

CHEMICAL	SECTION 302 (40 CFR 355, Appendix A)	SECTION 304 (40 CFR Table 302.4)	SECTION 313 (40 CFR 372.65)
Calcium Carbonate	NO	NO	NO
Dimethyl Ether	NO	NO	NO
Talc	NO	NO	NO
Isopropyl alcohol	NO	NO	NO
Vinyl Acrylic Copolymer	NO	NO	NO
Silica Quartz	NO	NO	NO

U.S. SARA SECTION 311/312 FOR PRODUCT: Acute health effects; chronic health effects.

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory.

OTHER U.S. FEDERAL REGULATIONS: Not applicable.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): "WARNING: This product contains a chemical known to the State of California to cause cancer."

ANSI LABELING (Z129.1):

DANGER! HARMFUL OR FATAL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID AND VAPOR.

VAPOR HARMFUL. CONTENTS UNDER PRESSURE. MAY EXPLODE IF HEATED. AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES SEVERE EYE IRRITATION. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

ANSI LABEL PRECAUTIONS:

Keep away from heat, sparks and flame. Do not expose to heat or store at temperatures above 120^{o}F. Close container after use. Avoid breathing dust, vapors or mist. Do not take internally. Avoid contact with skin and clothing. Wash thoroughly after handling. Avoid contact with eyes.

ENVIRONMENTAL HAZARDS: Do not discharge effluent containing this product into streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

15. REGULATORY INFORMATION - Continued

ADDITIONAL CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are listed on the DSL Inventory.

CANADIAN WHMIS SYMBOLS: **A - Compressed gas**
B1 - Flammable and combustible material - Flammable gas
B2 - Flammable and combustible material - Flammable liquid

D2A - Poisonous and infectious material - Other effects - Very toxic
D2B - Poisonous and infectious material - Other effects - Toxic

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

PREPARED BY:

John R. Kordosh
Homax Products, Inc.
4505 E. Industrial St., Ste. 1B
Simi Valley, CA 93063
(805) 581-3555

DATE OF PRINTING December 5, 2006

DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these, which are commonly used, include the following:

CAS #: This is the Chemical Abstract Service Number that uniquely identifies each compound.

ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.

TLV - Threshold Limit Value - an airborne concentration of a substance that represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average **(TWA)**, the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level **(C)**. Skin absorption effects must also be considered.

OSHA - U.S. Occupational Safety and Health Administration.

PEL - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL that was vacated by Court Order.

IDLH - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. **The DFG - MAK** is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. **O**ccupational **S**afety and **H**ealth **A**dministration (**OSHA**). NIOSH issues exposure guidelines called **R**ecommended **E**xposure **L**evels (**REL**s). When no exposure guidelines are established, an entry of **NE** is made for reference.

HAZARD RATINGS:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: Health Hazard: **0** (minimal acute or chronic exposure hazard); **1** (slight acute or chronic exposure hazard); **2** (moderate acute or significant chronic exposure hazard); **3** (severe acute exposure hazard; onetime overexposure can cause permanent injury and may be fatal); **4** (extreme acute exposure hazard; onetime overexposure can be fatal). Flammability Hazard: **0** (minimal hazard); **1** (materials that require substantial pre-heating before burning); **2** (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); **3** (Class IB and IC flammable liquids with flash points below 38°C [100°F]); **4** (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F]. Reactivity Hazard: **0** (normally stable); 1 (material that can become unstable at elevated temperatures or which can react slightly with water); **2** (materials that are unstable but do not detonate or which can react violently with water); **3** (materials that can detonate when initiated or which can react explosively with water); **4** (materials that can detonate at normal temperatures or pressures).

NATIONAL FIRE PROTECTION ASSOCIATION: Health Hazard: **0** (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); **1** (materials that on exposure under fire conditions could cause irritation or minor residual injury); **2** (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); **3** (materials that can on short exposure could cause serious temporary or residual injury); **4** (materials that under very short exposure could cause death or major residual injury). Flammability Hazard and Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System".

FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire Protection Association (**NFPA**). Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

TOXICOLOGICAL INFORMATION:

Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: **LD_{50}** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC_{50}** - Lethal Concentration (gases) which kills 50% of the exposed animals; **ppm** concentration expressed in parts of material per million parts of air or water; **mg/m^3** concentration expressed in weight of substance per volume of air; **mg/kg** quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of toxicity include **TDLo**, the lowest dose to cause a symptom and **TCLo** the lowest concentration to cause a symptom; **TDo**, **LDLo**, **LDo**, **TC**, **TCo**, **LCLo**, and **LCo**, the lowest dose (or concentration) to cause lethal or toxic effects. **BEI** - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV. Ecological Information: **EC** is the effect concentration in water.

Data from several sources are used to evaluate the cancer-causing potential of the material. The sources and ratings are: **IARC** - the International Agency for Research on Cancer; 1 = Carcinogenic to humans, 2A, 2B = Probably carcinogenic to humans, 3 = Unclassifiable as to carcinogenicity in humans, and 4 = Probably not carcinogenic to humans. **NTP** - the National Toxicology Program; K =Known to be a human carcinogen, and R = Reasonably anticipated to be a human carcinogen. **RTECS** - the Registry of Toxic Effects of Chemical Substances. **OSHA** - Occupational Safety and Health Administration and **CAL/OSHA** - California's subunit of the Occupational Safety and Health Administration; Ca = Carcinogen defined with no further categorization. **ACGIH –** American Conference of Governmental Industrial Hygienists; A1 = Confirmed human carcinogen, A2 = Suspected human carcinogen, A3 = Confirmed animal carcinogen with unknown relevance to humans, A4 = Not classifiable as a human carcinogen, and A5 = Not suspected as a human carcinogen. **NIOSH –** U.S. National Institute for Occupational Safety and Health; Ca = Potential occupational carcinogen, with no further categorization. **EPA –** U.S. Environmental Protection; A = Human carcinogen, B = Probable human carcinogen, C = Possible human carcinogen, D = Not classifiable as to human carcinogenicity, E = Evidence of Non-carcinogenicity for humans, K = Known human carcinogen, L = Likely to produce cancer in humans, CBD = Cannot be determined, NL = Not likely to be carcinogenic in humans, and I = Data are inadequate for an assessment of human carcinogenic potential.

REGULATORY INFORMATION:

This section explains the impact of various laws and regulations on the material. **EPA** is the U.S. Environmental Protection Agency. **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **DOT** and **TC** are the U.S. Department of Transportation and the Transport Canada, respectively. Superfund Amendments and Reauthorization Act **(SARA)**; the Canadian Domestic/Non-Domestic Substances List **(DSL/NDSL)**; the U.S. Toxic Substance Control Act **(TSCA)**; Marine Pollutant status according to the **DOT**; the Comprehensive Environmental Response, Compensation, and Liability Act **(CERCLA or Superfund)**; and various state regulations. This section also includes information on the precautionary warnings that appear on a material's industrial package label.

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MSDS

MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME:

HOMAX PRODUCTS, INC.

ACOUSTIC TEXTURE II
ITEM #4070

HAZARDOUS MATERIAL INFORMATION SYSTEM	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PROTECTIVE EQUIPMENT	J

(HAZARD RATING: 0=LEAST, 1=SLIGHT, 2=MODERATE, 3=HIGH, 4=EXTREME) (I=SAFETY GLASSES, GLOVES, & VAPOR RESPIRATOR)

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME:
HOMAX PRODUCTS, INC.
468 W. HORTON ROAD
BELLINGHAM WA 98226

24 HOUR EMERGENCY PHONE NUMBER:
CHEMTREC 1-800-424-9300

NFORMATION PHONE NUMBER: 1-800-729-9029

DATE OF PREPARATION: 5/27/03

SECTION II A - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS NUMBER	DESCRIPTION	PEL	TLV	%
07727-37-9	NITROGEN			1
14808-60-7	SILICA, CRYSTALLINE-QUARTZ	0.1 MG/M3	0.1 MG/M2	TRACE

TRACE QUANTITIES LESS THAN 1.0% AND GREATER THAN 0.009%
PEL REPRESENTS LOWERED 1989 LIMITS AND MAY NOT BE ENFORCEABLE BY FEDERAL OSHA.

SECTION IIB - OTHER REGULATORY INFORMATION

CAS NUMBER	DESCRIPTION	CARCINOGEN		SARA TITLE III		CALIFORNIA
07727-37-9	NITROGEN	NTP	IARC	OSHA	302 313	P65 I II
14808-60-7	SILICA CRYSTALLINE-QUARTZ			X		X

SECTION III- PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR:	VISCIOUS LUMPY LIQUID
BOILING POINT:	0 TO 0 DEG. F
WATER SOLUBILITY:	APPRECIABLE
VAPOR DENSITY:	HEAVIER THAN AIR
EVAPORATION RATE:	SLOWER THAN N-BUTYL ACETATE= MEDIAN
CALCULATED V.O.C. .08 LB/GL (10GR/LT)	WT/GAL: 9.83 WITH PROP .89

SECTION IV-FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): N/A
UNIFORM FIRE CODE STANDARD 88-1 LEVEL ONE AEROSOL
BULK PRODUCT FLASH POINT: N/A
BULK PROPELLANT FLASH POINT: N/A
PACKAGED PRODUCT FLAME EXTENSION: 00
EXTINGUISHING MEDIA: USE FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES:

EVACUATE ALL UNNECESSARY PERSONNEL. USE FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS. USE WATER SPRAY, PREFERABLY FOG, TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD UP AND POSSIBLE EXPLOSION. DO NOT ALLOW PRODUCT OR RUNOFF FROM FIRE CONTROL TO ENTER STORM OR SANITARY SEWERS, LAKES, RIVERS, STEAMS, OR WATERWAYS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTENTS UNDER PRESSURE. EXPOSURE TO HEAT OR PROLONGED EXPOSURE TO SUN MAY CAUSE BURSTING.

SECTION V – REACTIVITY DATA

STABILITY: MATERIAL IS STABLE
INCOMPATIBILTY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS, ACIDS, AMMONIA.
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES.
CONDITIONS TO AVOID: HIGH TEMPERATURE AND HUMIDITY, IGNITION SOURCE, VAPOR BUILD UP.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION VI – HEATLTH HAZARD DATA

ROUTES OF ENTRY: INHALATION: YES SKIN: YES

ACUTE EFFECTS FROM SHORT TERM EXPOSURE:
INHALATION: DUST FROM PARTICLES CAUSE IRRITATION TO NOSE, THROAT AND LUNGS (POSSIBLE BURNING, STINGING, COUGHING)
EYES: NONE KNOWN
SKIN: NONE KNOWN
SKIN ABSORPTION: NONE KNOWN

CHRONIC EFFECTS FROM LONG TERM /REPEATED EXPOSURE:

LONG TERM OR REPEATED OVEREXPOSURE, WITHOUT PROPER VENTILATION OR PERSONAL PROTECTION, MAY CAUSE DAMAGE TO LIVER.

OTHER:

THIS PRODUCT CONTAINS A FORM OF CRYSTALLINE SILICA. LONG TERM EXPOSURE TO HIGH LEVELS OF CHRYSTALLINE SILICA DUSTS MAY RESULT IN SILICOSIS, A DISABLING LUNG DISEASE. ALWAYS WEAR APPROPRIATE RESPIRATORY PROTECTION WHEN EXPOSED TO SANDING OR GRINDING DUSTS.

CARCINOGEN DATA:

CRYSTALLINE SILICAS ARE CLASSIFIED BY IARC AS POTENTIAL HUMAN CARCINOGENS, INHALATION OF CRYSTALLINE DUSTS MAY CAUSE LUNG TUMORS. RISK OF CANCER DEPENDS ON LEVEL AND DURATION

OF EXPOSURE. THE FOLLOWING STATEMENT IS REQUIRED BY CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC REFORM ACT OF 1986)

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
RESPIRATORY TRACT IRRITATION, NAUSEA, SKIN AND EYE DISORDERS; SENSITIZATION TO CHEMICAL SUBSTANCES.

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING: IN CASE OF ACCIDENTAL INGESTION, CALL POISON CENTER, EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY.

INHALATION: IF AFFECTED BY BREATHING ODORS OR VAPORS, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS PERSISTS.

EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES, WHILE LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL ATTENTION.

SKIN: WASH WITH SOAP AND WATER. REMOVE AND CLEAN CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

OTHER: N/A

SECTION VIII – PERSONAL PROTECTION

RESPIRATORY PROTECTION:
IF AFFECTED BY BREATHING VAPORS OR ODORS, WEAR A PROPERLY FITTED RESPIRATOR (NIOSH/MSHA TC23C OR EQUILVALENT) DURING USE. IF PRODUCT GIVES OFF SPRAY MIST, AVOID BREATHING BY WEARING RESPIRATOR PREFILTER OR PARTICLE MASK.

VENTILATION:
OPEN DOORS AND WINDOWS TO PROVIDE FRESH VENTILATION. IN WORK AND SURROUNDING AREAS DURING AND AFTER APPLICATION UNTIL ALL VAPOR (FUMES) ARE GONE.

HAND PROTECTION
WEAR GLOVES TO AVOID SKIN CONTACT.

EYE PROTECTION:
SAFETY GLASSES OR GOGGLES TO PROTECT EYES FROM SPLASH AND SPRAY MISTS.
NOTE: CONTACT LENS MAY CONTRIBUTE TO THE SEVERITY OF AND EYE INJURY AND SHOULD NOT BE WORN WHEN WORKING WITH CHEMICALS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
EYES - WASH FOUNTAIN AND SAFETY SHOWER.
REMOVE AND WASH CONTAMINATED CLOTHING BEFORE RE-USE.

WORK/HYGIENIC PRACTICES:
WASH HANDS AFTER USING AND BEFORE EATING, DRINKING OR USING TOBACCO PRODUCTS.
THROUGHLY CLEAN CONTAMINATED CLOTHING AND SHOES BEFORE REUSE.

SPILL OR LEAKAGE PROCEDURES:
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
ELIMINATE IGNITION SOURCES AND VENTILATE AREA. EVACUATE UNNECESSARY PERSONNEL. WEAR PROTECTIVE EQUIPMENT. DIKE AND CONAIN SPILL WITH INERT MATERIAL. TRANSFER LIQUID TO CONTAINERS FOR DISPOSAL OR RECOVERY. PREVENT MATERIAL FROM ENTERING STORM OR SANITARY SEWERS AND OPEN BODIES OF WATER.

WASTE DISPOSAL:
WASTE MATERIAL AND EMPTY CONTAINERS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL ENVIRONMENTAL CONTROL REGULATIONS. USE ONLY APPROVED WASTE MANAGEMENT FACILITIES.

SPECIAL PRECAUTIONS:
HANDLING PRECAUTIONS:
USE PROPER METHODS OF VENTILATION TO PREVENT VAPOR BUILD-UP. AVOID SPRAYING HOT SURFACES. DO NOT HEAT, PUNCTURE OR INCINERATE CONTAINERS. CONTENTS ARE UNDER PRESSURE AND MAY CONTAIN VAPORS, EVEN WHEN EMPTY. DO NOT REMOVE OR DEFACE LABEL.

SHIPPING AND STORAGE PRECAUTIONS:

CONTENTS UNDER PRESSURE. DO NOT STORE ABOVE 120 DEGREES F OR PERMIT PROLONGED EXPOSURE TO SUNLIGHT. PROTECT CONTAINERS FROM DAMAGE. STORE IN BUILDINGS OR AREAS DESIGNED AND PROTECTED FROM STORAGE OF AEROSOLS. KEEP OUT OF REACH CHILDREN.

SECTION IX - DISCLAIMER

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE, OBTAINED FROM SOURCES BELIEVED BY HOMAX PRODUCTS, INC. TO BE ACCURATE. SINCE THE CONDITIONS AND METHODS OF USE OF OUR PRODUCTS ARE BEYOND OUR CONTROL, WE DISCLAIM ANY AND ALL LIABILITY ARISING OUT OF THE IMPROPER USE OF THESE PRODUCTS OR THE INFORMATION PROVIDED HEREWITH.

PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS NUMBER: ORM-D

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
3202

HMIS CODES
Health 2
Flammability 4
Reactivity 0

PRODUCT NAME
KRYLON* Appliance Epoxy Paint, Almond

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
KRYLON Products Group
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
24-JAN-06

INFORMATION TELEPHONE NO.
(800) 832-2541

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
19	108-88-3	Toluene				
			ACGIH TLV	50	ppm (Skin)	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
23	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
12	123-86-4	n-Butyl Acetate				
			ACGIH TLV	150	ppm	10 mm
			ACGIH TLV	200	ppm STEL	
			OSHA PEL	150	ppm	
			OSHA PEL	200	ppm STEL	
8	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

Continued on page 2

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Continued on page 3

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Continued on page 4

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.54 lb/gal	783 g/l
SPECIFIC GRAVITY	0.79	
BOILING POINT	<0 - 264 F	<-18 - 128 C
MELTING POINT	Not Available	
VOLATILE VOLUME	90 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
Volatile Weight 57.89 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
123-86-4	n-Butyl Acetate				
		LC50	RAT	4HR	2000 ppm
		LD50	RAT		13100 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	19	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Continued on page 6

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

GRAINGER
FOR THE ONES WHO GET IT DONE

Close this window

Common Name: KRYLON APPLIANCE EPOXY PAINT, WHITE

Manufacturer: SHERWIN-WILLIAMS

MSDS Revision Date: 1/6/2007

Grainger Item Number(s): 2X986, 4X590

Manufacturer Model Number(s):

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MATERIAL, SAFETY DATA SHEET

3201

01 00

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER: 3201

PRODUCT NAME: KRYLON* APPLIANCE EPOXY PAINT, WHITE

HMIS CODES:
HEALTH 2
FLAMMABILITY 3
REACTIVITY 0

MANUFACTURER'S NAME:
THE SHERWIN-WILLIAMS COMPANY
KRYLON PRODUCTS GROUP
CLEVELAND, OH 44115

EMERGENCY TELEPHONE NO.: (216) 566-2917

INFORMATION TELEPHONE NO.: (800) 832-2541

DATE OF PREPARATION: 06-JAN-07

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

% BY WT	CAS NO.	INGREDIENT	UNITS	VAPOR PRESSURE
14	74-98-6	PROPANE ACGIH TLV: 2500 PPM OSHA PEL: 1000 PPM		760 MM
13	106-97-8	BUTANE ACGIH TLV: 800 PPM OSHA PEL: 800 PPM		760 MM
18	108-88-3	TOLUENE ACGIH TLV: 50 PPM (SKIN) OSHA PEL: 100 PPM (SKIN) OSHA PEL: 150 PPM (SKIN) STEL		22 MM
23	67-64-1	ACETONE ACGIH TLV: 500 PPM ACGIH TLV: 750 PPM STEL OSHA PEL: 1000 PPM		180 MM
12	123-86-4	n-BUTYL ACETATE ACGIH TLV: 150 PPM ACGIH TLV: 200 PPM STEL OSHA PEL: 150 PPM OSHA PEL: 200 PPM STEL		10 MM
7	13463-67-7	TITANIUM DIOXIDE ACGIH TLV: 10 MG/M3 AS DUST OSHA PEL: 10 MG/M3 TOTAL DUST OSHA PEL: 5 MG/M3 RESPIRABLE FRACTION		

SECTION 3 - HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE:
INHALATION OF VAPOR OR SPRAY MIST.
EYE OR SKIN CONTACT WITH THE PRODUCT, VAPOR OR SPRAY MIST.

EFFECTS OF OVEREXPOSURE:

EYES: IRRITATION.

SKIN: PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION.

INHALATION: IRRITATION OF THE UPPER RESPIRATORY SYSTEM.

MAY CAUSE NERVOUS SYSTEM DEPRESSION. EXTREME OVEREXPOSURE MAY RESULT IN UNCONSCIOUSNESS AND POSSIBLY DEATH.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:
HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF COORDINATION ARE INDICATIONS OF EXCESSIVE EXPOSURE TO VAPORS OR SPRAY MISTS.

REDNESS AND ITCHING OR BURNING SENSATION MAY INDICATE EYE OR EXCESSIVE SKIN EXPOSURE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE GENERALLY RECOGNIZED.

CANCER INFORMATION:
FOR COMPLETE DISCUSSION OF TOXICOLOGY DATA REFER TO SECTION 11.

SECTION 4 - FIRST AID MEASURES

EYES:
FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES.
GET MEDICAL ATTENTION.

SKIN:
WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER.
REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE.

INHALATION:
IF AFFECTED, REMOVE FROM EXPOSURE. RESTORE BREATHING.
KEEP WARM AND QUIET.

INGESTION:
DO NOT INDUCE VOMITING.
GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: PROPELLANT <0 F

LEL: 1.0
UEL: 12.8

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS:
CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.
APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.

DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES:
FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED.

WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
REMOVE ALL SOURCES OF IGNITION. VENTILATE THE AREA.
REMOVE WITH INERT ABSORBENT.

SECTION 7 - HANDLING AND STORAGE

STORAGE CATEGORY: NOT AVAILABLE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. VAPORS WILL ACCUMULATE READILY AND MAY IGNITE EXPLOSIVELY.

DURING USE AND UNTIL ALL VAPORS ARE GONE:
KEEP AREA VENTILATED - DO NOT SMOKE - EXTINGUISH ALL FLAMES, PILOT LIGHTS, AND HEATERS - TURN OFF STOVES, ELECTRIC TOOLS AND APPLIANCES, AND ANY OTHER SOURCES OF IGNITION.

CONSULT NFPA CODE. USE APPROVED BONDING AND GROUNDING PROCEDURES.

CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE, OR EXPOSE TO TEMPERATURE ABOVE 120F. HEAT FROM SUNLIGHT, RADIATORS, STOVES, HOT WATER, AND OTHER HEAT SOURCES COULD CAUSE CONTAINER TO BURST. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE:
USE ONLY WITH ADEQUATE VENTILATION.
AVOID CONTACT WITH SKIN AND EYES. AVOID BREATHING VAPOR AND SPRAY MIST.
WASH HANDS AFTER USING.

THIS COATING MAY CONTAIN MATERIALS CLASSIFIED AS NUISANCE PARTICULATES (LISTED "AS DUST" IN SECTION 2) WHICH MAY BE PRESENT AT HAZARDOUS LEVELS ONLY DURING SANDING OR ABRADING OF THE DRIED FILM. IF NO SPECIFIC DUSTS ARE LISTED IN SECTION 2, THE APPLICABLE LIMITS FOR NUISANCE DUSTS ARE
ACGIH TLV 10 MG/M3 (TOTAL DUST), 3 MG/M3 (RESPIRABLE FRACTION)
OSHA PEL 15 MG/M3 (TOTAL DUST), 5 MG/M3 (RESPIRABLE FRACTION).

REMOVAL OF OLD PAINT BY SANDING, SCRAPING OR OTHER MEANS MAY GENERATE DUST OR FUMES THAT CONTAIN LEAD. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE BRAIN DAMAGE OR OTHER ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. CONTROLLING EXPOSURE TO LEAD OR OTHER HAZARDOUS SUBSTANCES REQUIRES THE USE OF PROPER PROTECTIVE EQUIPMENT, SUCH AS A PROPERLY FITTED RESPIRATOR (NIOSH APPROVED) AND PROPER CONTAINMENT AND CLEANUP. FOR MORE INFORMATION, CALL THE NATIONAL LEAD INFORMATION CENTER AT 1-800-424-LEAD (IN US) OR CONTACT YOUR LOCAL HEALTH AUTHORITY.

VENTILATION:
LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IF THE EXPOSURE TO MATERIALS IN SECTION 2 IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARDS 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION:
IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW APPLICABLE LIMITS BY VENTILATION, WEAR A PROPERLY FITTED ORGANIC VAPOR/PARTICULATE RESPIRATOR APPROVED BY NIOSH/MSHA FOR PROTECTION AGAINST MATERIALS IN SECTION 2.

WHEN SANDING OR ABRADING THE DRIED FILM, WEAR A DUST/MIST RESPIRATOR APPROVED BY NIOSH/MSHA FOR DUST WHICH MAY BE GENERATED FROM THIS PRODUCT, UNDERLYING PAINT, OR THE ABRASIVE.

PROTECTIVE GLOVES:
NONE REQUIRED FOR NORMAL APPLICATION OF AEROSOL PRODUCTS WHERE MINIMAL SKIN CONTACT IS EXPECTED. FOR LONG OR REPEATED CONTACT, WEAR CHEMICAL RESISTANT GLOVES.

EYE PROTECTION: WEAR SAFETY SPECTACLES WITH UNPERFORATED SIDESHIELDS.

OTHER PRECAUTIONS:
INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL OR FATAL.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT:
6.55 LB/GAL
784 G/L

SPECIFIC GRAVITY: 0.79

BOILING POINT:
<0 - 264 F
<-18 - 128 C

MELTING POINT: NOT AVAILABLE

VOLATILE VOLUME: 89 %

EVAPORATION RATE: FASTER THAN ETHER

VAPOR DENSITY: HEAVIER THAN AIR

SOLUBILITY IN WATER: N.A.

pH: 7.0

VOLATILE ORGANIC COMPOUNDS (VOC THEORETICAL - AS PACKAGED):
VOLATILE WEIGHT 57.20% LESS WATER AND FEDERALLY EXEMPT SOLVENTS

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBILITY: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS:
BY FIRE: CARBON DIOXIDE, CARBON MONOXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11 - TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS:
NO INGREDIENT IN THIS PRODUCT IS AN IARC, NTP OR OSHA LISTED CARCINOGEN.

PROLONGED OVEREXPOSURE TO SOLVENT INGREDIENTS IN SECTION 2 MAY CAUSE ADVERSE EFFECTS TO THE LIVER, URINARY, BLOOD FORMING, CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS.

RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG./M3 DEVELOPED LUNG CANCER, HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORKPLACE.

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

TOXICOLOGY DATA:

CAS NO. INGREDIENT NAME

74-98-6 PROPANE
LC50 RAT 4HR: NOT AVAILABLE
LD50 RAT: NOT AVAILABLE

106-97-8 BUTANE
LC50 RAT 4HR: NOT AVAILABLE
LD50 RAT: NOT AVAILABLE

108-88-3 TOLUENE
LC50 RAT 4HR: 4000 PPM
LD50 RAT: 5000 MG/KG

67-64-1 ACETONE
LC50 RAT 4HR: NOT AVAILABLE
LD50 RAT: 5800 MG/KG

123-86-4 n-BUTYL ACETATE
LC50 RAT 4HR: 2000 PPM
LD50 RAT: 13100 MG/KG

13463-67-7 TITANIUM DIOXIDE
LC50 RAT 4HR: NOT AVAILABLE
LD50 RAT: NOT AVAILABLE

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: NO DATA AVAILABLE.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
WASTE FROM THIS PRODUCT MAY BE HAZARDOUS AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261.

WASTE MUST BE TESTED FOR IGNITABILITY TO DETERMINE THE APPLICABLE EPA HAZARDOUS WASTE NUMBERS.

DO NOT INCINERATE. DEPRESSURIZE CONTAINER. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS REGARDING POLLUTION.

SECTION 14 - TRANSPORT INFORMATION

NO DATA AVAILABLE.

SECTION 15 - REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

CAS NO.	CHEMICAL/COMPOUND	% BY WT	% ELEMENT
108-88-3	TOLUENE	18	

CALIFORNIA PROPOSITION 65:

WARNING:
THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

TSCA CERTIFICATION:
ALL CHEMICALS IN THIS PRODUCT ARE LISTED, OR ARE EXEMPT FROM LISTING, ON THE TSCA INVENTORY.

SECTION 16 - OTHER INFORMATION

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

THE ABOVE INFORMATION PERTAINS TO THIS PRODUCT AS CURRENTLY FORMULATED, AND IS BASED ON THE INFORMATION AVAILABLE AT THIS TIME. ADDITION OF REDUCERS OR OTHER ADDITIVES TO THIS PRODUCT MAY SUBSTANTIALLY ALTER THE COMPOSITION AND HAZARDS OF THE PRODUCT. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION.

1.5 OZ PORCELAIN REPAIR-WHITE
01-80234

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	1.5 OZ PORCELAIN REPAIR-WHITE
Item No.:	01-80234
Part No.:	PP-1
Product Type:	COATING

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Additives	Proprietary	55-60
aromatic petroleum solvents MB	Proprietary	35-40
XYLENES*	1330-20-7	5-10
Acrylic resin	Proprietary	trace

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
XYLENES	100 ppm TWA 434 mg/m3	100 ppm TWA 435 mg/m3	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
XYLENES	150 ppm 651 mg/m3	150 ppm 655 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity:	IRRITANT TOXIC BY INGESTION AND INHALATION
Primary Routes of Entry:	SKIN, INGESTION, INHALATION
Signs and Symptoms of Exposure:	ANESTHETIC IRRITATION OF RESPIRATORY TRACT OR CENTRAL NERVOUS SYSTEM CHARACTERIZED BY HEADACHE DIZZINESS, OF NARCOSIS. PRIMARY IRRITATION OF SKIN OR EYES
Existing Conditions Aggravated by Exposure:	None known

Product Name: 1.5 OZ PORCELAIN REPAIR-WHITE
Item No.: 01-80234

3. HAZARDS IDENTIFICATION (continued)

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP	IARC	OSHA
Additives	No Data	NO	NO	NO
aromatic petroleum solvents MB	No Data	NO	NO	NO
XYLENES	CAR CNS IRR KID LIV	NO	NO	NO
Acrylic resin	No Data	NO	NO	NO

Abbreviations

CAR Cardiac
CNS Central nervous system
IRR Irritant
KID Kidney
LIV Liver

4. FIRST AID MEASURES

Ingestion: DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY
Inhalation: REMOVE TO FRESH AIR. CALL A PHYSICIAN
Skin Contact: WASH WITH LARGE AMOUNTS OF WATER.
Eye Contact: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES SEEK MEDICAL HELP

5. FIRE FIGHTING MEASURES

Flash Point: <100 DEG F
Recommended Extinguishing Agents: CO2, DRY CHEMICAL ,FOAM
Special Firefighting Procedures: Not available
Hazardous Products formed by Fire or Thermal Decomp OXIDES OF CARBON AND NITROGEN
Unusual Fire or Explosion Hazards: WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CONTAINERS.

Explosive Limits:
(% by volume in air)Lower Not available
(% by volume in air)Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: REMOVE ALL SOURCES OF IGNITION. AVOID BREATHING VAPORS. REMOVE WITH ABSORBENT AND NONSPARKING TOOLS

Product Name: 1.5 OZ PORCELAIN REPAIR-WHITE
Item No.: 01-80234

7. HANDLING AND STORAGE

Safe Storage:	DO NOT STORE ABOVE 120 DEG F
(Contact Loctite Customer	Service 1-800-243-4874 for shelf life information)
Handling:	OBSERVE NORMAL SAFETY PRECAUTIONS FOR FLAMMABLE MATERIALS. AVOID BREATHING VAPORS.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:	Safety glasses or goggles.
Skin:	Rubber or plastic gloves.
Ventilation:	SUFFICIENT TO MAINTAIN VAPOR CONCENTRATION BELOW TLV
Respiratory	Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	WHITE LIQUID
Odor:	SOLVENT
Boiling Point:	280-344 DEG F
pH:	Does not apply
Solubility in Water:	INSOLUBLE
Specific Gravity	1.1
Volatile Organic Compound (EPA Method 24)	47.7%
Vapor Pressure:	<10 MM
Vapor Density:	>1
Evaporation Rate (Ether = 1)	Not available

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility:	NONE KNOWN
Conditions to Avoid:	Not available
Hazardous Decomposition Products (non-thermal):	NONE KNOWN

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

Product Name: 1.5 OZ PORCELAIN REPAIR-WHITE
Item No.: 01-80234

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: INCINERATE FOLLOWING FEDERAL, STATE, AND LOCAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS

EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
- Proper Shipping Name: CONSUMER COMMODITY
- Hazard Class or Division: ORM-D
- Identification Number: None
- Marine Pollutant: None

IATA
- Proper Shipping Name: FLAMMABLE LIQUIDS NOS XYLENES
- Class or Division: FLAMMABLE, UN 1993 PG III
- UN or ID Number: UN 1993

15. REGULATORY INFORMATION

CA Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
- Health Hazard: 3
- Fire Hazard: 3
- Reactivity Hazard: 0
- Specific Hazard: Does not apply

Estimated HMIS(R) Code:
- Health Hazard: 3
- Flammability Hazard: 3
- Reactivity Hazards: 0
- Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared by:
Company: Safety, Health and Regulatory Affairs - North America, Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100

MATERIAL SAFETY DATA SHEET

729-1313
18 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

729-1313

HMIS CODES

Health	2
Flammability	0
Reactivity	0

PRODUCT NAME

SUPER TOUGH COAT* Acrylic Water Based Epoxy (Part A), White White

MANUFACTURER'S NAME

THE MARTIN SENOUR CO.
P.O. Box 6709
Cleveland, OH 44101

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

27-FEB-02

INFORMATION TELEPHONE NO.

(216) 566-2902

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT		UNITS	VAPOR PRESSURE
2	112-34-5	2-(2-Butoxyethoxy)-ethanol			
		ACGIH TLV	Not Available		0.06 mm
		OSHA PEL	Not Available		
3	107-21-1	Ethylene Glycol.			
		ACGIH TLV	50	ppm CEILING	0.12 mm
		OSHA PEL	50	ppm CEILING	
16	13463-67-7	Titanium Dioxide.			
		ACGIH TLV	10	mg/m3 as Dust	
		OSHA PEL	10	mg/m3 Total Dust	
		OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and upper respiratory system. In a confined area vapors in high concentration may cause headache, nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Continued on page 2

Section 4 -- FIRST AID MEASURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
If SWALLOWED: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
>200 F PMCC	N.A.	N.A.

FLAMMABILITY CLASSIFICATION
Not Applicable
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY
DOL Storage Class IIIB
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

Continued on page 3

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	9.74 lb/gal	1167 g/l
SPECIFIC GRAVITY	1.17	
BOILING POINT	212 - 448 F	100 - 231 C
MELTING POINT	Not Available	
VOLATILE VOLUME	61 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	9.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

1.17 lb/gal	140 g/l	Less Federally Exempt Solvents
0.52 lb/gal	62 g/l	Emitted VOC

Continued on page 4

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Ethylene Glycol is considered an animal teratogen. It has been shown to cause birth defects in rats and mice at high doses when given in drinking water or by gavage. There is no evidence to indicate it causes birth defects in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA

CAS No.	Ingredient Name				
112-34-5	2-(2-Butoxyethoxy)-ethanol				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5660 mg/kg
107-21-1	Ethylene Glycol.				
		LC50	RAT	4HR	Not Available
		LD50	RAT		4700 mg/kg
13463-67-7	Titanium Dioxide.				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Continued on page 5

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
107-21-1	Ethylene Glycol.	3	
	Glycol Ethers	2	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

DATE PRINTED: MAY 12, 2005
MSDS NO. SANDBLOCK OUTBOUND
Sanding Block

Norton Company

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME
Sanding Block
TRADE NAME

MANUFACTURER(4)
Saint-Gobain Abrasives, Inc.
1 New Bond St
Worcester, MA. 01615
(800) 543-4335
REVISION DATE
1/20/2005
MSDS PRINT FORMAT
NUSA

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Aluminum Oxide, Non-fibrous	20.000- 30.000	1344-28-1
Polyurethane polymer	5.000- 10.000	68400-67-9
Unvulcanized rubber	10.000- 20.000	
Silicon Carbide	35.000- 45.000	409-21-2

OTHER
Not Applicable

SECTION 3. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS
Dust may be slightly irritating to eyes and respiratory tract at high concentrations.
INHALATION CHRONIC EXPOSURE EFFECTS
May affect breathing capacity.
EYE CONTACT ACUTE EXPOSURE EFFECTS
Dust may irritate eyes.
SKIN CONTACT ACUTE EXPOSURE EFFECTS
Some may experience skin irritation from dust.
INGESTION ACUTE EXPOSURE EFFECTS
No known adverse effects, but ingestion not recommended.

SECTION 4. FIRST AID MEASURES

INHALATION
Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
SKIN CONTACT
Wash affected areas with soap and water. Obtain medical assistance.
EYE CONTACT
Wash with large amounts of water. Obtain first aid and medical

assistance, if needed.
INGESTION
Call poison control center, hospital emergency room or physician immediately.

SECTION 5. FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES
Not Applicable
HAZARDOUS PRODUCTS/COMBUSTION
None.
HAZARD RATING SOURCE
NFPA
HEALTH
1
FLAMMABILITY
0
REACTIVITY
0
OTHER

SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP
Follow normal clean up procedures.

SECTION 7. HANDLING AND STORAGE

HANDLING
Handle with adequate ventilation for nuisance dust.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROTECTION
Recommend using local exhaust ventilation when general ventilation is not keeping the airborne concentration below the TLV.
RESPIRATORY PROTECTION
Respirators are required when airborne contaminant levels exceed the TLV(s).
EYE PROTECTION
Always WEAR SAFETY GLASSES or some type of eye protection while sanding.
OTHER PROTECTION
Use of this product may create elevated sound levels. Hearing protection should be worn where required (see OSHA 29 CFR 1910.134 and other applicable regulations).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR
Solid article. Odorless.

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES
Avoid acids of all types with a pH < 4.0.
DECOMPOSITION
In use, dust and decomposing odors may be generated. In most cases,

the material removed from the workplace will be significantly greater than the sandpaper components.

SECTION 11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY
Not Applicable
LD50/LC50
Values are not appropriate or available.

SECTION 12. ECOLOGICAL INFORMATION

CHEMICAL FATE
Not Applicable

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws.

SECTION 14. TRANSPORT INFORMATION

HAZARD CLASS
This product is not hazardous as defined by the Department of Transportation.(USA)
This product is "Not Regulated" under the Transportation of Dangerous Goods Act. (CAN)

SECTION 15. REGULATORY INFORMATION

EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	UNITS	OSHA	ACGIH	MOL
Aluminum Oxide, Non-fibrous	MG/M3	15.0000	10.0000	10.0000
Polyurethane polymer	PPM	0.0000	0.0000	0.0000
Unvulcanized rubber		0.0000	0.0000	0.0000
Silicon Carbide	MG/M3	10.0000	10.0000	10.0000

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS
CA PROP 65
Not Applicable
TSCA
Section 8(b) - Inventory Status

All components of this product are registered under the regulations of the Toxic Substance Control Act.

DOMESTIC SUBSTANCE LIST
All components of this product are found on the Domestic Substance List.

SECTION 16. OTHER INFORMATION

DISCLAIMER

KEY TO ABBREVIATIONS:

EQ=EQual	LT=Less Than	GT=Greater Than
AP=APproximately =	TR=TRace	ND=No Data available

1301 E. 9th Street, #700
Cleveland OH 44114
(800) 726-9626

Barnes Distribution

Material Safety Data Sheet

MSDS Form No. : MSDS22034
Item No. : 22034, 22034

****** MATERIAL SAFETY DATA SHEET ******

FEL-PRO ALUMINUM PUTTY EPOXY (HARDENER)

Part # MSDS22034

****** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ******

MSDS Name: FEL-PRO ALUMINUM PUTTY EPOXY (HARDENER)
Product CAS: (none)
Product Code:
Synonyms: 22034; FEL-PRO ALUMINUM PUTTY EPOXY (HARDENER)
Company Identification:
Name: BOWMAN DISTRIBUTION
Address: 1301 E. 9TH ST., ST. 700
Address:
City: CLEVELAND State: OH Zip: 44114
For information, call: HEALTH ISSUES AND TECHNICAL INFORMATION (8AM-5PM ET): 1-216-416-7200 X 5
60
Emergency Number:
Emergency Agency: CHEMTREC (24 HOURS EVERYDAY) / ROCKY MOUNTAIN POISON CONTROL CENTER (24 HOURS
EVERYDAY)
Number: 800-424-9300 / 303-623-5716
MSDS Creation Date: 1/5/2005
Supersedes Date: 1/1/2003

****** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ******

Chemical Name	CAS	MIN	MAX
ALUMINUM	7429-90-5	15	15
NONYL PHENOL	25154-52-3	5	5
POLYOXYALKLENEAMINE	9046-10-0	10	10
AMINOETHYLPIPERAZINE	140-31-8	10	10

BENZYL ALCOHOL	100-51-6	5	5
BISPHENOL-A	80-05-7	10	10
DIMER/TOFA, REACTION PRODUCTS W/TETA	68082-29-1	40	40
TRIETHYLENETETRAMINE	112-24-3	25	25
AMORPHOUS SILICON DIOXIDE	112945-52-5	3	3

Miscellaneous:

INGREDIENTS	% WT/WT LESS THAN
ALUMINUM	15
NONYL PHENOL	5
POLYOXYALKLENEAMINE	10
AMINOETHYLPIPERAZINE	10
BENZYL ALCOHOL	5
BISPHENOL-A	10
DIMER/TOFA, REACTION PRODUCTS W/ TETA	40
TRIETHYLENETETRAMINE	25

NOTE: SEE BELOW FOR EXPOSURE LIMIT DATA FOR THESE INGREDIENTS

INGREDIENT	OSHA PEL	ACGIH TLV	OTHER LIMITS
ALUMINUM	10 MG/M3-TD	10 MG/M3-TD	N.E.
NONYL PHENOL	N.E.	N.E.	N.E.
POLYOXYALKLENEAMINE	N.E.	N.E.	N.E.
AMINOETHYLPIPERAZINE	N.E.	N.E.	N.E.
BENZYL ALCOHOL	N.E.	N.E.	N.E.
BISPHENOL-A	N.E.	N.E.	N.E.
DIMER/TOFA, REACTION PRODUCTS W/ TETA	N.E.	N.E.	N.E.
TRIETHYLENETETRAMINE	N.E.	N.E.	N.E.

Lbs of VOC per Gallon Coating (minus water): 0
Coating Density (lbs/gal): 0
Solvent Density (lbs/gal): 0
Percent Solvent (volume): 0
Percent Solids (volume): 0
Percent Water (volume): 0

**** SECTION 3 - HAZARDS IDENTIFICATION ****

NFPA: Health: Fire: Reactivity: Other:
HMIS: Health: 3 Fire: 1 Reactivity: 0 Special Protection:

Miscellaneous:
EMERGENCY OVERVIEW
APPEARANCE AND ODOR: SILVERY; MILD AMMONIA-LIKE ODOR.

HMIS AND NFPA HAZARD RATINGS:

CATEGORY	NFPA

ACUTE HEALTH N.D.
FLAMMABILITY N.D.
REACTIVITY N.D.
PERSONAL PROT./SPECIFIC HAZ.: * / N.D.

***REFER TO SECTION 8.**

POTENTIAL HEALTH EFFECTS
Target Organs:
PRIMARY ROUTES OF EXPOSURE: INHALATION, INGESTION, SKIN CONTACT, EYE CONTACT, SKIN ABSORPTION.

Eye:
HEALTH HAZARDS - ACUTE EFFECTS: CORROSIVE TO THE EYES AND MAY CAUSE SEVERE DAMAGE INCLUDING BLINDNESS. PRODUCT VAPOR CAN CAUSE LACRIMATION, CONJUNCTIVITIS, AND CORNEAL EDEMA WHEN ABSORBED INTO THE TISSUE OF THE EYE. CORNEAL EDEMA MAY GIVE RISE TO A PERCEPTION OF "BLUE HAZE" OR "FOG"
AROUND LIGHTS. THE EFFECT IS TRANSIENT AND HAS NO KNOW RESIDUAL EFFECT.

Skin:
HEALTH HAZARDS - ACUTE EFFECTS: SUBSTANCE CAN BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. STRONG SKIN SENSITIZER. PROLONGED CONTACT MAY CAUSE CHEMICAL BURNS AND BLISTERING.

Ingestion:
HEALTH HAZARDS - ACUTE EFFECTS: MODERATELY TOXIC. CAN BURN MOUTH, THROAT
AND STOMACH, WITH NAUSEA, SEVERE PAIN, AND VOMITING.

Inhalation:
HEALTH HAZARDS - ACUTE EFFECTS: LIQUID ASPIRATED INTO LUNGS MAY CAUSE SERIOUS INJURY OR DEATH.
POTENTIAL RESPIRATORY SENSITIZER. PROLONGED OR REPEATED INHALATION MAY CAUSE LUNG DAMAGE.
PROLONGED INHALATION CAUSES INFLAMMATION AND ULCERATION OF THE RESPIRATORY TRACT.

Miscellaneous:
CONDITIONS TO AVOID: DO NOT GET IN EYES, ON SKIN OR CLOTHING. AVOID BREATHING DUST, VAPOR,
MIST OR GAS. DO NOT TAKE INTERNALLY.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NO DATA.

CHRONIC HAZARDS: PREEXISTING PULMONARY AND DERMATOLOGICAL DISORDERS MAY BE AGGRAVATED BY
EXPOSURE TO HAZARDOUS COMPONENTS. PROLONGED OR REPEATED OVEREXPOSURE MAY CAUSE LUNG DAMAGE.

**** SECTION 4 - FIRST AID MEASURES ****

Eye:

IMMEDIATELY FLUSH WITH PLENTY OF WATER. AFTER INITIAL FLUSHING, REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HAVE EYES IMMEDIATELY EXAMINED AND TESTED BY MEDICAL PERSONNEL.

Skin:
IMMEDIATELY FLUSH AFFECTED AREA (S) THOROUGHLY WITH WATER AT LEAST 15 MINUTES. REMOVE AND
0WASH CONTAMINATED CLOTHING. CONTAMINATED LEATHER ARTICLES SHOULD BE DISPOSED OF. OBTAIN
1MEDICAL ATTENTION.

Ingestion:
IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE VICTIM A GLASS OF WATER OR MILK. CALL A PHYSICIAN
OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Inhalation:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS
DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

Notes to Physician:

**** SECTION 5 - FIRE FIGHTING MEASURES ****

Unusual Fire and Explosion Hazards:
FINELY DIVIDED DUST IN AIR MAY PRESENT EXPLOSION HAZARD. PREVENT DUST BUILD-UP. CLOSED
CONTAINERS MAY RUPTURE OR EXPLODE (DUE TO PRESSURE BUILD-UP) WHEN EXPOSED TO EXTREME HEAT.
IRRITATING AND/OR TOXIC GASES OR FUMES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION.

Special Fire Fighting Procedures:
USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER
0TO COOL EXPOSED CONTAINERS. WATER STREAM DIRECTED INTO FIRE MAY CAUSE FROTHING WITH SUBSEQUENT
1SPREAD OF FLAME.

Extinguishing Media:
ALCOHOL FOAM, CO2, WATER FOG, DRY CHEMICAL, FOAM.

Flash Point:
AND METHOD: 200 F (SETAFLASH CLOSED CUP).

Flammable Limits:
Lower Limit:
LEL(%): N.A.
Upper Limit:
UEL(%): N.A.

AutoIgnition Temperature:
(O F): NO DATA.

General Information:
FLAMMABILITY LIMITS (%): N.A.

HAZARDOUS COMBUSTION PRODUCTS: NO DATA.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

Disposal:
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. DECONTAMINATE OR DISPOSE OF CONTAMINATED CLOTHING AND ARTICLES. WASH SPILL AREA WITH SOAP AND WATER.

RCRA HAZARDOUS WASTE NUMBER: NOT REGULATED.

Spills/Leaks:
WEAR APPROPRIATE PROTECTIVE EQUIPMENT DURING CLEANUP. ABSORB WITH INERT MATERIAL, SUCH AS CLAY. SWEEP OR SHOVEL INTO LOOSELY-COVERED WASTE CONTAINER AND REMOVE TO APPROPRIATE WASTE AREA.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:
WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. AVOID BREATHING DUST, VAPOR, MIST OR GAS. DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY. STORING: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN.

Storage:

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:
LOCAL EXHAUST NEEDED TO CONTROL VAPOR OR DUST LEVELS TO BELOW LOWEST COMPONENT TLV.

Eyes:
CHEMICAL SPLASH GOGGLES. FACE SHIELD.

Skin:
CLEAN CLOTHING TO COVER SKIN BUTYL RUBBER GLOVES. NEOPRENE GLOVES. NITRILE GLOVES. TEFLON GLOVES. VITON GLOVES.

Clothing:
OTHER PROTECTIVE EQUIPMENT: ACCESSIBLE EYE WASH AND SAFETY SHOWER.

Respirators:
NONE NORMALLY REQUIRED UNDER GENERAL VENTILATION. IF TLV/PEL IS EXCEEDED, IF USE IS PERFORMED IN A POORLY VENTILATED SPACE, OR IF INHALATION EFFECTS OCCUR, USE NIOSH-APPROVED VAPOR CARTRIDGE RESPIRATOR IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY REGULATIONS AND MANUFACTURER'S RECOMMENDATIONS.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Appearance/Odor:

pH: ALK.
Vapor Pressure: NO DATA
Vapor Density: (AIR = 1): GT 1 HEAVIER THAN AIR
Evaporation Rate: (N-BUTYL ACETATE=1): LT 1. HEAVIER THAN AIR
Viscosity: HIGH
Boiling Point: 278-560 F
Freezing/Melting Point: FREEZING POINT: NO DATA.
Decomposition Temperature: NA
Solubility: IN WATER: SLIGHT
Specific Gravity: 1.07
Molecular Formula: NA
Molecular Weight: NA
Miscellaneous:
VOC (G/LITER): 0
MAX. % VOC BY WEIGHT: 0%.; METHOD USED: CALCULATED.
COEFF. OF WATER/OIL DISTRIBUTION: NO DATA.

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:
THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

Conditions to Avoid:
NO INFORMATION.

Incompatibilities with Other Materials:
STRONG LEWIS OR MINERAL ACIDS. STRONG BASES OR OXIDANTS. REACTION WITH EPOXY RESINS AND ISOCYANATES IN LARGE AMOUNTS OR UNDER UNCONTROLLED

CONDITIONS RELEASES CONSIDERABLE HEAT AND MAY RELEASE ACRID FUMES. ALDEHYDES, KETONES, ACRYLATES, AND ORGANIC HALIDES. CLEANING SOLUTION SUCH AS CHROMERGE (SULFURIC ACID/ DICHROMATE) AND AQUA REGIA. REACTION WITH SOME NITRATES OR NITRITES CAN CAUSE THE FORMATION OF CANCER-CAUSING NITROSOAMINES. EPOXIDES. SULFURIC ACID, HBR + IRON WHEN IT HEATS ABOVE 100 DEGREES C.

Hazardous Decomposition Products:
OXIDES OF CARBON. OXIDES OF NITROGEN, AMMONIA. IRRITATION ALDEHYDES AND KETONES.

Hazardous Polymerization:
WILL NOT OCCUR UNDER NORMAL CONDITIONS.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

Toxicological Information:
CARCINOGENICITY: NONE.

INGREDIENT	NTP	OSHA	IARC
ALUMINUM	NO	NO	NO
NONYL PHENOL	NO	NO	NO
POLYOXYALKLENEAMINE	NO	NO	NO
BENZYL ALCOHOL	NO	NO	NO
BISPHENOL-A	NO	NO	NO
DIMER/TOFA, REACTION PRODUCTS W/ TETA	NO	NO	NO
TRIETHYLENETETRAMINE	NO	NO	NO

COMPONENT TOXICOLOGICAL INFORMATION:

INGREDIENT LD 50 / LC50

ALUMINUM: NO INFORMATION / NO INFORMATION
NONYL PHENOL: SKIN (RBT) 2140 MG/KG / NO INFORMATION.
POLYOXYALKLENEAMINE: DERM (RBT) 800 MG/KG / NO INFORMATION
BENZYL ALCOHOL: ORAL (RAT) 1230 MG/KG / NO INFORMATION
BISPHENOL-A: DERM (RBT) 3000 MG/KG / 200 MG/I/H
DIMER/TOFA, REACTION PRODUCTS W/ TETA: NO INFORMATION / NO INFORMATION
TRIETHYLENETETRAMINE: DERM (RBT) 805 MG/KG / NO INFORMATION.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecological Information:
NO DATA AVAILABLE.

****** SECTION 13 - OTHER PRECAUTIONS ******

Other Precautions:

Work/Hygienic Practices:
FOLLOW GENERAL INDUSTRIAL SAFETY PRACTICES DURING USE. DO NOT SMOKE OR EAT DURING USE. WASH AFTER HANDLING. DO NOT REUSE EMPTY CONTAINERS. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED.

****** SECTION 14 - TRANSPORT INFORMATION ******

Transportation Information:
DOT SHIPPING NAME: N.A.

HAZARD CLASS OR DIVISION: N.A.

CARTON MARKINGS: N.A.

IDENTIFICATION NUMBER: N.A.

PACKING GROUP: N.A.

LABELS: N.A.

Label Information:

****** SECTION 15 - REGULATORY INFORMATION ******

Regulatory Information:
COMPONENT RCRA CLASSIFICATIONS: NOT REGULATED.

TSCA: THE CHEMICAL SUBSTANCES IN THIS PRODUCT ARE ON THE TSCA SECTION 8 INVENTORY. THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE U.S.: NONYL PHENOL (25154-52-3), BISPHENOL-A (80-05-7).

PENNSYLVANIA RIGHT TO KNOW: THE FOLLOWING ARE NON-HAZARDOUS, BUT ARE PRESENT IN THE PRODUCT AT GREATER THAN 3 %: AMORPHOUS SILICON DIOXIDE (CAS NUMBER 112945-52-5).

**NJ RIGHT TO KNOW: THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG
THE TOP FIVE COMPONENTS IN THIS PRODUCT: AMORPHOUS SILICON DIOXIDE (CAS NUMBER 112945-52-5).**

CANADIAN WHMIS CLASS: E, D2B.

CHIP SUPPLY LABEL SAFETY PHRASES: 36/37/39 26

CHIP SUPPLY LABEL RISK PHRASES: 34 43 21

CHIP SUPPLY LABEL SYMBOLS: CORROSIVE, C

SARA TITLE III:

HAZARD CATEGORIES:
ACUTE HEALTH: YES
CHRONIC HEALTH: YES
FIRE HAZARD: YES
PRESSURE HAZARD: YES

REPORTABLE INGREDIENTS:
SECTION 302/303: NONE.
SECTION 313: NONE.

CERCLA RQ: NONE KNOWN.

**** SECTION 16 - ADDITIONAL INFORMATION ****

Additional Information:
N.A. NOT APPLICABLE
N.D. NOT DETERMINED
N.E. NOT ESTABLISHED

MATERIAL SAFETY DATA SHEET
S O S PRODUCTS COMPANY INC
P. O. Box 47
East Greenville, Pa. 18041
Phone (215)-679-6262 (215)-679-6263

SECTION I - GENERAL INFORMATION

Product Code: EP Revision Date: July 26, 2005
Identification: EPOXY PUTTY

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT:	%	PEL PPM	TLV PPM	TLV MG/M3	LEL	CAS. NO
TRI(DIMETHYL-AMINOMETHYL) PH	-	-	-	-	-	00090-72-2
EPOXY RESIN	-	-	-	-	-	250-68-386

2,4,6, TRI (DIMETHYLAMINOMETHYL) PHENOL ACGIH-5PPM
EPOXY RESIN (DIGLYCIDYL ETHER OF BISPHENOL A)
ACGIH - 19.8G/KG (ORAL LD50 RABBIT)
ACGIH - 20G/KG (DERMAL LD50 RABBIT)

Carcinogenicity: This product is NOT considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

SECTION III - PHYSICAL CHARACTERISTIC

Boiling Point: N/A
Specific Gravity: 1.9
Vapor Pressure: N/A
Melting Point: N/A
Vapor Density: N/A
Evaporation Rate: NONE
Solubility in Water: NOT SOLUBLE
Odor and Appearance: 2 COMPONENTS IN MASTIC FORM. ODOR: MERCAPTAN

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: NONE
LEL: N/A
Flammable Limits: N/A
UEL: N/A
Extinguishing Media: WATER SPRAY, FOAM, CO2 AND DRY CHEMICAL
Special Fire Fighting Procedures: CONVENTIONAL METHODS
Unusual Fire and Explosion Hazards: N/A

SECTION V - REACTIVITY DATA

This product is STABLE
Conditions to avoid: NONE
Incompatibility: NONE
Hazardous Decomposition: CO, ALDEHYDES, ACIDS, SO2 AND N2 MAY BE FORMED.
Hazardous Polymerization: WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

Routes of Entry: Inhalation? NO
Skin? YES - SECONDARY
Ingestion? YES - SECONDARY
Health Hazards (Acute and Chronic): NONE KNOWN OR ESTABLISHED
Carcinogenicity: NTP? NO
IARC Monographs? NO

OSHA Regulated? NO

Signs and Symptoms of Exposure: NONE

Medical Conditions Generally Aggravated by Exposure: NONE

Emergency and First Aid Procedures:
SKIN: WASH WITH SOAP AND WATER. EYES: FLUSH 15 MINUTES; GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR, INGESTION: INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY.

SECTION VII - HANDLING PRECAUTIONS

Steps to be Taken if Material is Released or Spilled:
SWEEP UP IN NORMAL MANNER

Waste Disposal Method: NON-HAZARDOUS LANDFILL

Precautions to be Taken in Handling and Storage: NONE

Other Precautions: NONE

SECTION VIII - CONTROL MEASURES

Respiratory Protection:	NONE REQUIRED FOR NORMAL USE
Ventilation Required:	ADEQUATE
Protective Gloves:	WEAR POLYETHYLENE GLOVES FOR PROLONGED USE.
Eye Protection:	WEAR SAFETY GOGGLES
Other Protective Equipment:	NONE REQUIRED
Work/Hygienic Practices:	WASH THOROUGHLY AFTER USING.

The above information pertains to the product as it is currently formulated and is based upon the information available at this time. Additions of reducers or other additives to this product may substantially alter the composition and subsequent hazards of the product. Since conditions of use are outside of our control, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : EASY SOLUTIONS - Tile Grout Repair
UPC NUMBER : 7079810726, 7079810731
PRODUCT USE/CLASS : Tile Grout Repair

MANUFACTURER:
DAP INC.
2400 BOSTON STREET
BALTIMORE, MD 21224

24 HOUR EMERGENCY:
TRANSPORTATION: 1-800-535-5053 (352-323-3500)
MEDICAL : 1-800-327-3874 (513-636-5118)

PREPARE DATE : 10/16/2000
REVISION NO. : 1
REVISION DATE: 06/11/2001

GENERAL INFORMATION:
DAP INC. : 1-888-DAP-TIPS (1-888-327-8477)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
01	Ethylene glycol	107-21-1	1.0-5.0 %
02	Calcium Carbonate	1317-65-3	70.0-75.0 %
03	Mineral spirits	8052-41-3	1.0-5.0 %

EXPOSURE LIMITS

ITEM	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	COMPANY TLV-TWA	SKIN
01	N.E.	50 ppm*	N.E.	50 ppm	N.E.	NO
02	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
03	100 ppm	N.E.	100 ppm	N.E.	N.E.	NO

(See Section 16 for abbreviation legend), * - TLV-Ceiling Value

Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states.

(Continued on Page 2)

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION! May irritate eyes, skin, nose, and respiratory tract. Harmful if inhaled or swallowed.

POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor harmful if inhaled. Vapor may irritate nose and upper respiratory tract. Vapor inhalation may affect the brain or nervous system causing dizziness, headache or nausea.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed. Ingestion of ethylene glycol in excess may lead to respiratory and/or cardiac failure as well as kidney and liver damage. If ingested, this product may cause vomiting, diarrhea, and depressed respiration.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated permanent brain and nervous system damage with prolonged and repeated occupational overexposure to solvents. Ingestion of Ethylene Glycol in excess may lead to respiratory and cardiac failure, and kidney and liver damage.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: None known.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water until irritation subsides. If irritation persists, call Medical in Section I.

SKIN CONTACT: Wash with soap and water. If irritation persists, call Medical in Section I.

INHALATION: Remove to fresh air. Call Medical in Section I immediately.

INGESTION: DO NOT INDUCE VOMITING. Call Medical in Section I immediately.

COMMENTS: None.

(Continued on Page 3)

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200 F (SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A.
UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.E.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may burst if exposed to extreme heat. Eliminate sources of ignition: heat, electrical equipment, sparks, and flames. Do not put in contact with oxidizing or caustic materials.

SPECIAL FIREFIGHTING PROCEDURES: Full protective equipment, including self-contained breathing apparatus, is recommended to protect from combustion products. Cool exposed containers with water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Dike spill area. Absorb remaining liquid with absorbent material and place into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well ventilated area.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep away from heat, spark, and flame. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 degrees F.

OTHER PRECAUTIONS: Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Do not take internally.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposure below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, etc.) for vapor before entering.

(Continued on Page 4)

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If 8 hour exposure limit or value is exceeded for any component, use an approved NIOSH/OSHA respirator. Consult your safety equipment supplier and the OSHA regulation, 29 CFR 1910.134 for respirator requirements. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

EYE PROTECTION: Goggles or safety glasses with side shields.

SKIN PROTECTION: Solvent impervious gloves.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash and solvent impervious apron if body contact may occur.

HYGIENIC PRACTICES: Remove contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 210 - 220 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Sl. amine odor		
APPEARANCE	: White paste	EVAPORATION RATE	: Is slower than Butyl Acetate
SOLUBILITY IN H2O	: Negligible		
SPECIFIC GRAVITY	: 1.9388		
VAPOR PRESSURE	: 17.5 mm Hg@68F.		
PHYSICAL STATE	: Paste		

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx, NOx

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

(Continued on Page 5)

SECTION 12 - ECOLOGICAL INFORMATION

No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State, and Local Standards. This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulations, 40 CFR Section 261. However, it is recommended that discarded material be incinerated at a permitted facility. State and Local regulations/ restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261): None.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by D.O.T.

DOT HAZARD CLASS: NONE

DOT UN/NA NUMBER: NONE PACKING GROUP: NONE

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or non-domestic destinations.

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313:
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
Ethylene glycol	107-21-1	1.0-5.0 %

TOXIC SUBSTANCES CONTROL ACT:
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

CHEMICAL NAME	CAS NUMBER
OLEIC ACID	112-80-1
1,2,4-TRIMETHYLBENZENE	95-63-6

(Continued on Page 6)

SECTION 15 - REGULATORY INFORMATION

NEW JERSEY RIGHT-TO-KNOW:
The following materials are non-hazardous, but are among the top five components in this product:

CHEMICAL NAME	CAS NUMBER
Water	7732-18-5
Acrylic Polymer	TSRN-51-0344944-1943

PENNSYLVANIA RIGHT-TO-KNOW:
The following non-hazardous ingredients are present in the product at greater than 3%:

CHEMICAL NAME	CAS NUMBER
Water	7732-18-5
Acrylic Polymer	Proprietary

CALIFORNIA PROPOSITION 65:
WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer:

CHEMICAL NAME	CAS NUMBER
Chlorothalonil	1897-45-6

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

(Continued on Page 7)

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 10/16/2000

VOC less water, less exempt solvent: 95-100 gm/L (0.5-1 lb/gal) (4-5 wt%VOC)
VOC material : 50-60 gm/L

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
PEL - PERMISSIBLE EXPOSURE LIMIT
NTP - NATIONAL TOXICOLOGY PROGRAM
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986
STEL - SHORT TERM EXPOSURE LIMIT
TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)
VOC - VOLATILE ORGANIC COMPOUND
NJRTK - NEW JERSEY RIGHT TO KNOW LAW
N.D. - NOT DETERMINED

MSDS# 71031

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End OF MSDS >

MATERIAL SAFETY DATA SHEET

Pre-Mixed Tile Grout

HMIS

HEALTH	**1**
FLAMMABILITY	**0**
REACTIVITY	**0**
PERSONAL PROTECTION	**B**

1. Product And Company Identification

Supplier
CUSTOM BUILDING PRODUCTS
10400 Pioneer Blvd., Unit #3
Santa Fe Springs, CA 90670 UNITED STATES

Company Contact: GEORGE MARCINA
Telephone Number: (562) 968-2980 Ext 103
FAX Number: (562) 903-2697
E-Mail: georgem@cbpmail.net
Web Site: www.custombuildingproducts.com

Manufacturer
CUSTOM BUILDING PRODUCTS
10400 Pioneer Blvd., Unit #3
Santa Fe Springs, CA 90670 UNITED STATES

Company Contact: GEORGE MARCINA
Telephone Number: (562) 968-2980 Ext 103
FAX Number: (562) 903-2697
E-Mail: georgem@cbpmail.net
Web Site: www.custombuildingproducts.com

Supplier Emergency Contacts & Phone Number
GEORGE MARCINA: (562) 968-2980

Manufacturer Emergency Contacts & Phone Number
GEORGE MARCINA: (562) 968-2980

Issue Date: 04/24/2006

Product Name: Pre-Mixed Tile Grout
CAS Number: Not Established
Chemical Formula: Mixture
MSDS Number: 645
Product Code: 1022

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
Acrylic Copolymer	Proprietary		5 - 15
Calcium Carbonate	1317-65-3		65 - 75

3. Hazards Identification

Primary Routes(s) Of Entry
Eye and Skin Contact. Inhalation. Ingestion.

Eye Hazards
Causes eye irritation.

Skin Hazards
May cause skin irritation.

Ingestion Hazards
Harmful if swallowed. May cause gastrointestinal irritation, nausea and vomiting.

Inhalation Hazards
May cause nose, throat, and lung irritation.

Chronic/Carcinogenicity Effects
May contain trace amounts of chemicals that IARC classifies as possible carcinogens.

3. Hazards Identification - Continued

Teratogenicity (Birth Defects)

May contain trace amounts of chemicals that caused birth defects in animal studies. It did not cause harm to the animal or fetus when applied on skin.

Reproductive Effects

May contain trace amounts of chemicals that caused birth defects in animal studies. It did not cause harm to the animal or fetus when applied on skin.

Mutagenicity (Genetic Effect)

May contain trace amounts of chemicals that caused birth defects in animal studies. It did not cause harm to the animal or fetus when applied on skin.

Conditions Aggravated By Overexposure

May cause eye and skin irritation. May cause nose, throat and lung irritation. May cause gastronomic disturbances.

4. First Aid Measures

Eye

Gently blot or wipe any residue remaining on the face, being careful not to get it in the victim's eyes or skin. Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin

Remove excess from the skin. Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Thoroughly clean before reuse. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion

If victim is fully conscious, give one or two cups of water or milk to drink. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately. If there is any discomfort from ingestion, consult a physician.

Inhalation

If inhaled, remove to fresh air. Get medical attention immediately.

5. Fire Fighting Measures

Flash Point: NONE °F
Flash Point Method: NONE
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A

Fire And Explosion Hazards

Material will not burn until all water has evaporated. Cans may burst open and splatter material if temperatures reach 212 deg F and above.

Extinguishing Media

Foam, CO2, Dry chemical, Water fog.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Clean up spill immediately. Cover with absorbent to contain. Collect and dispose. Use appropriate containers to avoid environmental contamination. Avoid runoff to waterways and sewers. Avoid release to the environment.
Use appropriate personal protective equipment (PPE).

7. Handling And Storage

Handling And Storage Precautions
Store in cool, dry areas away from sunlight, heat and heat sources. Protect from freezing.

Work/Hygienic Practices
Wash thoroughly with soap and water after handling. Use good personal hygiene. Observe good housekeeping practices.

8. Exposure Controls/Personal Protection

Eye/Face Protection
Safety glasses with side shields or goggles recommended.

Skin Protection
Chemical-resistant gloves.

Respiratory Protection
General room ventilation is normally adequate. .In case of inadequate ventilation, use NIOSH-approved respirator.

Other/General Protection
General ventilation is usually sufficient. Fan or other device maybe needed if used in small and enclosed areas.

Ingredient(s) - Exposure Limits
Calcium Carbonate
OSHA - PEL - TWA - 15mg/m3
Niosh - REL 10 mg/m3
ACGIH- TLV - 10 mg/m3
OSHA - PEL - TWA - 5 mg/m3
Adequate clothing to prevent skin contact.

9. Physical And Chemical Properties

Appearance
White paste

Odor
Mild acrylic odor.

Chemical Type: Mixture
Physical State: Liquid
Boiling Point: 212 °F
Specific Gravity: 1.9
Percent Volatiles: 25
Vapor Density: HEAVIER THAN AIR
Solubility: Dilutable in water
Evaporation Rate: Slower than ether

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Incompatible Materials
Avoid contact with strong oxidizers.

Hazardous Decomposition Products
Thermal decomposition in air may result in carbon monoxide and / or carbon dioxide.

Conditions To Avoid (Polymerization)
Hazardous polymerization will not occur. Heat may cause pressure build-up in closed containers

11. Toxicological Information

Chronic/Carcinogenicity
May contain trace amounts of chemicals that IARC classifies as possible carcinogens.

Teratogenicity (Birth Defects)
May contain trace amounts of chemicals that caused birth defects in animal studies. It did not cause harm to the animal or fetus when applied on skin.

Reproductive Effects
May contain trace amounts of chemicals that caused birth defects in animal studies. It did not cause harm to the animal or fetus when applied on skin.

Mutagenicity (Genetic Effects)
May contain trace amounts of chemicals that caused birth defects in animal studies. It did not cause harm to the animal or fetus when applied on skin.

Ingredient(s) - Toxicological Data
Acrylic Copolymer
Oral >5000mg / kg - rat

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations and industry standards.

RCRA Information
Not considered RCRA waste

14. Transport Information

DOT Shipping Label
Not Regulated

15. Regulatory Information

Ingredient(s) - State Regulations
Acrylic Copolymer
California - Proposition 65
Calcium Carbonate
New Jersey - Workplace Hazard
Pennsylvania - Workplace Hazard
Massachusetts - Hazardous Substance

16. Other Information

HMIS Rating
Health: 1
Fire: 0
Reactivity: 0
Personal Protection: B

Revision/Preparer Information
MSDS Preparer: GEORGE MARCINA
MSDS Preparer Phone Number: (562) 968-2980 ext 103
This MSDS Supersedes A Previous MSDS Dated: 04/20/2006

MATERIAL SAFETY DATA SHEET

Pre-Mixed Tile Grout

Disclaimer

THE INFORMATION PRESENTED HERE IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

CUSTOM BUILDING PRODUCTS

Printed Using MSDS Generator™ 2000

MATERIAL SAFETY DATA SHEET

White Dry Non-Sanded Grout

HMIS

HEALTH	**1**
FLAMMABILITY	**0**
REACTIVITY	**0**
PERSONAL PROTECTION	**E**

1. Product And Company Identification

Supplier
CUSTOM BUILDING PRODUCTS
10400 Pioneer Blvd., Unit #3
Santa Fe Springs, CA 90670 UNITED STATES

Company Contact: GEORGE MARCINA
Telephone Number: (562) 968-2980 Ext 103
FAX Number: (562) 903-2697
E-Mail: georgem@cbpmail.net
Web Site: www.custombuildingproducts.com

Manufacturer
CUSTOM BUILDING PRODUCTS
10400 Pioneer Blvd., Unit #3
Santa Fe Springs, CA 90670 UNITED STATES

Company Contact: GEORGE MARCINA
Telephone Number: (562) 968-2980 Ext 103
FAX Number: (562) 903-2697
E-Mail: georgem@cbpmail.net
Web Site: www.custombuildingproducts.com

Supplier Emergency Contacts & Phone Number
GEORGE MARCINA: (562) 968-2980

Manufacturer Emergency Contacts & Phone Number
GEORGE MARCINA: (562) 968-2980

Issue Date: 04/20/2006

Product Name: White Dry Non-Sanded Grout
CAS Number: Not Established
Chemical Family: Mixture
Chemical Formula: Mixture
MSDS Number: 637
Product Code: 8012

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
Calcium Carbonate	1317-65-3		20 - 30
Portland Cement	65997-15-1		70 - 80

3. Hazards Identification

Primary Routes(s) Of Entry
Inhalation, Skin Contac, Eye Contact, Ingestion

Eye Hazards
Irritant, severe eye irritation. May cause eye injury. Effects may be delayed.

Skin Hazards
Contains Portland cement and exposure to dry Portland cement may cause drying of skin with consequent mild irritation. Prolonged contact with wet Portland cement may cause severe, potentially irreversible damage to the skin in the form of chemical (caustic) burns.

Ingestion Hazards
Ingestion is not known to be harmful, however the product contains Portland cement which is caustic to mucus tissue and should not be consumed.

3. Hazards Identification - Continued

Inhalation Hazards

Causes respiratory tract irritation. May cause nose, throat, and lung irritation. May cause delayed lung injury.

Chronic/Carcinogenicity Effects

May contain trace amounts of Silica sand, known Human Carcinogen (Category 1)

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion

DO NOT INDUCE VOMITING. If victim is fully conscious, give one or two cups of water or milk to drink. Get medical attention immediately.

Inhalation

If inhaled, remove to fresh air. Consult a physician immediately if irritation persists. Do not give an unconscious person anything to drink.

5. Fire Fighting Measures

Flash Point: N/A °F
Flash Point Method: N/A
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A

6. Accidental Release Measures

Avoid generating dust. Sweep up and remove immediately.U se appropriate personal protective equipment (PPE). OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING NOTIFICATIONS OF ACCIDENTAL RELEASES.

7. Handling And Storage

Handling And Storage Precautions

Use only with adequate ventilation.

Handling Precautions

Avoid creating dust. Avoid breathing dust. Avoid contact with skin and clothing. Avoid contact with eyes.

Storage Precautions

Keep dry until ready to use.

Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

Engineering Controls

Use with adequate ventilation.

Eye/Face Protection

Safety glasses with side shields or goggles recommended.

8. Exposure Controls/Personal Protection - Continued

Skin Protection

If hands or feet will be exposed, wear impervious gloves and/or boots.

Respiratory Protection

In case of inadequate ventilation and when exposed to dust above the recommended limits, wear a suitable NIOSH-approved respirator.

Ingredient(s) - Exposure Limits

Calcium Carbonate
- OSHA - PEL - TWA - 15mg/m3
- Niosh - REL 10 mg/m3
- ACGIH- TLV - 10 mg/m3
- OSHA - PEL - TWA - 5 mg/m3

Portland Cement
- OSHA - PEL - 5mg/m3
- OSHA - PEL - TWA - 50mppcf
- ACGIH - TLV - 10mg/m3

9. Physical And Chemical Properties

Appearance

Free flowing white powder.

Chemical Type: Mixture
Physical State: Solid
Boiling Point: N/A °F
Specific Gravity: 2.7
Vapor Density: N/A
Solubility: SLIGHT
Evaporation Rate: N/A

10. Stability And Reactivity

Stability: STABLE
Hazardous Polymerization: WILL NOT OCCUR.

Conditions To Avoid (Stability)

Avoid unintentional contact with water.

Incompatible Materials

Contains portland cement which, when wet, is highly alkali. As a result, it is incompatible with acids, ammonium salts, aluminum and other alkali and alkaline earth metals.

11. Toxicological Information

Chronic/Carcinogenicity

May contain traces of Silica sand, known human carcinogen.

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

RCRA Information

Not considered RCRA Hazardous Waste.

14. Transport Information

DOT Shipping Label
NOT REGULATED

15. Regulatory Information

SARA Hazard Classes
Chronic Health Hazard

SARA Section 313 Notification
This product does not contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

State Regulations
Cal EPA -Toxic Hot Spots - OEHHA - REL - 3 micrograms /m3

Ingredient(s) - State Regulations
Calcium Carbonate
Pennsylvania - Workplace Hazard
Portland Cement
New Jersey - Workplace Hazard
Pennsylvania - Workplace Hazard

16. Other Information

HMIS Rating
Health: 1
Fire: 0
Reactivity: 0
Personal Protection: E

Revision/Preparer Information
MSDS Preparer: GEORGE MARCINA
MSDS Preparer Phone Number: (562) 968-2980 ext 103
This MSDS Supersedes A Previous MSDS Dated: 04/10/2006

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitablility of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

CUSTOM BUILDING PRODUCTS

Printed Using MSDS Generator™ 2000

Material Safety Data Sheet

F
S

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1. Chemical Product and Company Identification

```
DESCRIPTION:     ELMER'S CARPENTERS WOOD GLUE
PRODUCT TYPE:    PVAC BASED ADHESIVE
APPLICATION:     FOR PRODUCT CODES SEE SECTION 16
```

- **Manufacturer/Supplier Information**

```
MSDS Prepared by:
Elmer's Products, Inc.                          Emergency Phone Number
1 Easton Oval                                   Poison Control Center
Columbus, OH  43219                             888-516-2502
For additional health, safety or regulatory information, call 888-435-6377
Call 1-800-848-9400 to place an order or request additional MSDSs.
```

---

2. Composition, Information on Ingredients

```
No hazardous ingredients known to company.
```

---

3. Hazards Identification

3.1 Emergency Overview

```
Appearance                          Light yellow liquid
Odor                                Mild acetic aroma
Not an immediate health hazard.
```

- **HMIS Rating**

```
      HEALTH = 0 (minimal)
FLAMMABILITY = 0 (minimal)
  REACTIVITY = 0 (minimal)
```

3.2 Potential Health Effects

- **Immediate Hazards**

```
INGESTION:   No hazards known to company.
INHALATION:  No hazards known to company.
SKIN:        No hazards known to company.
EYES:        No hazards known to company.
```

- **Delayed Hazards**

None of the components present in this product at concentrations equal to or greater than 0.1% have been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen.

4. First Aid Measures

```
INGESTION:   If accidentally swallowed, dilute by drinking large
             quantities of water.  Immediately contact poison control
             center or hospital emergency room for any other
             additional treatment directions.
EYES:        Immediately flush eyes with plenty of water.  Call a
             physician if irritation persists.
```

5. Fire Fighting Measures

```
Autoignition Temperature            Not available
Upper/Lower Flammable Limits        Not applicable
Up/Lower Explosive Limits, % by Vol Not applicable
Flash Point                         Not applicable
Will not burn unless water has evaporated.  Dried material may
burn.
In case of fire, water should be used to keep fire-exposed
containers cool.
```

6. Accidental Release Measures

Soak up with absorbent material and remove to a chemical disposal area. Prevent entry into natural bodies of water.

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices.

7.2 Storage

Keep from freezing.
Store in a cool, dry place.
Keep containers tightly closed.

8. Exposure Controls/Personal Protection

8.1 Exposure Controls

No special control measures necessary under normal conditions of use.

8.2 Personal Protection

No special protection necessary.

8.3 Exposure Guidelines

None established

9. Physical and Chemical Properties

Percent Volatiles	54.5
pH @ 25 C	5.0
Specific Gravity	1.08
Appearance	Light yellow liquid

Autoignition Temperature	Not available
Boiling Point	100°C (212°F)
Vapor Density (Air=1)	<1
Vapor Pressure, mm Hg @ 20 C	17.5
Evaporation Rate (Butyl Acetate=1)	<1
Upper/Lower Flammable Limits	Not applicable
Up/Lower Explosive Limits, % by Vol	Not applicable
Flash Point	Not applicable
Freezing Point	0°C (32°F)
Odor	Mild acetic aroma
Odor Threshold, ppm	Not available
Solubility in Water	Dispersible
Coefficient of Water/Oil Distrib.	Not available

10. Stability and Reactivity

Normally stable as defined in NFPA 704-12(4-3.1).

- **Incompatibilities:**

Strong acids and alkaline materials.

- **Decomposition products may include:**

CO, CO2.

- **Hazardous polymerization:**

Will not occur.

- **Other Hazards:**

None known to company.

11. Toxicological Information

INGESTION:	A similar product was found to be non-toxic orally when tested as described in 16 CFR Part 1500.3(c)(1) and (2).
INHALATION:	A similar product was found to be non-toxic by inhalation when tested as described in 16 CFR Part 1500.3 (c)(1) and (2).
SKIN ABSORPTION:	A similar product was found to be non-toxic dermally when tested as described in 16 CFR Part 1500.3 (c)(1)

and (2).
SKIN: A similar product was not an irritant when tested as described in 16 CFR Part 1500.41.
EYES: A similar product was not an irritant when tested as described in 16 CFR Part 1500.42.

12. Ecological Information

Not determined.

13. Disposal Considerations

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.
Non-Regulated.

14.2 Canadian Transportation of Dangerous Goods (TDG)

Non-Regulated.

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

- **OSHA Hazard Communication Standard 29CFR1910.1200**

This material is not a "health hazard" or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

- **SARA Title III: Section 311/312**

Does not meet any hazard category

- **SARA Title III Section 313 and 40 CFR Part 372**

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.
None required per SARA TITLE III SECTION 313.

- **TSCA Section 8(b) Inventory**

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

- **Workplace Hazardous Materials Information System (WHMIS)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.
Not a controlled product

- **Canadian Environmental Protection Act (CEPA)**

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

- **National Pollutant Release Inventory (NPRI)**

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.
None required.

16. Other Information

AP (Non-Toxic): Products bearing the AP (Non-Toxic) Product Seal of The Art & Creative Materials Institute, Inc. (ACMI) are certified in a program of toxicological evaluation by a medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. This program is reviewed by ACMI's Toxicological Advisory Board. These products are certified by ACMI to be labeled in accordance with the chronic hazard labeling standard, ASTM D-4236 and Federal Law, P.L. 100-695. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).
MSDS covers items:
U.S.: E614, E700, E701, E702, E704, E705, E706, E970, E980, E1367, E1825, E1850
Canada: 60613, 60614, 60615, 60616, 60617, 60618, 60619

- **User's Responsibility**

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

- **Disclaimer**

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

CURRENT ISSUE: 27-JUN-06
PREVIOUS ISSUE: 13-JAN-05

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name: FAST N FINAL PREMIUM
Revision Date: 01/31/2006
Product UPC Number: 7079812140, 7079812141, 7079812142, 7079812143, 7079812145, 7079812146, 7079812147, 7079812148, 7079812149, 7079823030, 7079823050, 7079823090, 7079871354
Supercedes: 07/08/2003
Product Use/Class: RTU Spackle/Wallboard Repair
MSDS Number: 00010410001
Manufacturer: **DAP Inc.**
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non-emergency matters)

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Sodium silicate glass	1344-09-8	10-30	10 MGM3	N.E.	N.E.	5 MGM3	N.E.	N.E.	No
Ethylene glycol	107-21-1	0.5-1.5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Vinyl acetate	108-05-4	0.1-1.0	10 PPM	15 PPM	N.E.	N.E.	N.E.	N.E.	No
Formaldehyde	50-00-0	<0.004	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No
Acetaldehyde	75-07-0	<0.002	N.E.	N.E.	25 PPM	200 PPM	N.E.	N.E.	No

Exposure Notes:

50-00-0 Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A white to off-white paste with a slight sweet odor. CAUTION! May cause eye, skin, nose, throat and respiratory tract irritation. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. May cause dry skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation of dust may cause lung damage or other adverse pulmonary and respiratory effects.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Effects Of Overexposure - Chronic Hazards:

Formaldehyde vapor is a known animal carcinogen according to OSHA and NTP and is considered possibly carcinogenic to humans by inhalation. The International Agency for Research on Cancer considers formaldehyde to be a human carcinogen.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals. This product contains vinyl acetate which is classified as a class 2B carcinogen by IARC. Vinyl acetate was found to cause cancer in the respiratory tract of laboratory animals. There is no evidence that vinyl acetate causes cancer in humans. The IARC published a monograph on vinyl acetate (1995). In this monograph, IARC indicates "there is inadequate evidence in humans for carcinogenicity of vinyl acetate. There is limited evidence in experimental animals for the carcinogenicity of vinyl acetate." Normally, this lack of conclusive evidence would place a substance in the IARC 3 classification (not classified as a human carcinogen). However, because vinyl acetate is metabolized to acetaldehyde, which has an IARC 2B (possibly carcinogenic to humans) classification, it also has been listed under Category 2B. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation

Medical Conditions which May be Aggravated by Exposure: If dry sanded, asthma and asthma-like conditions may worsen from prolonged or repeated exposure to dust.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: Call a physician or Poison Control Center immediately. Do not induce vomiting.

Note to Physician: None.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arises from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: Greater than 200 degrees
Method: (Seta Closed Cup)

Lower Explosive Limit, %: Not Established
Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Unusual Fire And Explosion Hazards: None known.

Special Firefighting Procedures: Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Scrape up dried material and place into containers.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! Do not breathe vapors. Wash thoroughly after handling. Avoid excessive heat and handling. Do not breathe dust. While dry sanding, use of a NIOSH-approved dust mask is recommended. Avoid contact with eyes, skin and clothing. Removal of this product after use will result in the generation of Dust. If dry-sanded, exposure to dust may result in the build-up of material in eyes, ears, nose, and mouth which may cause irritation.

Storage: Store away from caustics and oxidizers. Do not store at temperatures above 120 degrees F. Keep tightly closed. Avoid excessive heat and freezing.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits. Wet sanding is recommended to avoid generation of dust. Prevent build-up of dust and vapors by opening windows and doors or use other means to ensure fresh air entry during application, drying and sanding.

Respiratory Protection: A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. Use an approved NIOSH/OSHA respirator if dry sanded.

Skin Protection: Wear gloves with repeated or prolonged use.

Eye Protection: Safety glasses with side-shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Remove and wash contaminated clothing before re-use.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Not Established
Odor:	Slight Sweet	**Odor Threshold:**	Not Established
Appearance:	White to Off-White	**Evaporation Rate:**	Not Established
Solubility in H2O:	Not Established	**Specific Gravity:**	0.478
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste		

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under normal conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50	WT%
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg	0.5-1.5
108-05-4	Vinyl acetate	----------	Rat:11400 mg/m3/4H	0.1-1.0
50-00-0	Formaldehyde	----------	Rat:203 mg/m3	<0.004
75-07-0	Acetaldehyde	----------	Rat:13300 ppm/4H	<0.002

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP	WT%
108-05-4	Vinyl acetate	Confirmed animal carcinogen with unknown relevance to humans.	Not Listed.	Possible carcinogen.	Not Listed.	0.1-1.0
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Human carcinogen.	Anticipated carcinogen.	<0.004
75-07-0	Acetaldehyde	Confirmed animal carcinogen with unknown relevance to humans.	Not Listed.	Possible carcinogen.	Anticipated carcinogen.	<0.002

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA and NTP identify formaldehyde as a potential carcinogen. IARC identifies formaldehyde as a human carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the

significance of which to humans is unknown. In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits. Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): None

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number	WT%
Ethylene glycol	107-21-1	0.5-1.5
Vinyl acetate	108-05-4	0.1-1.0

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if

exported from the United States:

None.

U.S. State Regulations

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number	WT%
Water	7732-18-5	30-60
Acetic acid, vinyl ester, polymer	Proprietary	10-30
Sodium Borate; Boric Acid, Sodium Salt	7775-19-1	1-5

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number	WT%
Water	7732-18-5	30-60
Acetic acid, vinyl ester, polymer	Proprietary	10-30
Sodium Borate; Boric Acid, Sodium Salt	7775-19-1	1-5

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

Chemical Name	CAS Number	Definition	Date Listed	WT%
Formaldehyde	50-00-0	Carcinogenic.	Listed: January 1, 1988	<0.004
Acetaldehyde	75-07-0	Carcinogenic.	Listed: April 1, 1988	<0.002

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm:

None.

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 9.5 LB/GAL: 0.1 WT%: 1.485

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable

N.E. – Not Established

N.D. – Not Determined

VOC – Volatile Organic Compound

ACGIH – American Conference of Governmental Industrial Hygienists

SARA – Superfund Amendments and Reauthorization Act of 1986

NJRTK – New Jersey Right-to-Know Law

OSHA – Occupational Safety and Health Administration

PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
STEL – Short Term Exposure Limit	CEIL – Ceiling Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	C – Degree Celsius
MSDS – Material Safety Data Sheet	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name: FAST N FINAL PREMIUM
Revision Date: 01/31/2006
Product UPC Number: 7079812140, 7079812141, 7079812142, 7079812143, 7079812145, 7079812146, 7079812147, 7079812148, 7079812149, 7079823030, 7079823050, 7079823090, 7079871354
Supercedes: 07/08/2003
Product Use/Class: RTU Spackle/Wallboard Repair
MSDS Number: 00010410001
Manufacturer: **DAP Inc.**
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non-emergency matters)

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Sodium silicate glass	1344-09-8	10-30	10 MGM3	N.E.	N.E.	5 MGM3	N.E.	N.E.	No
Ethylene glycol	107-21-1	0.5-1.5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Vinyl acetate	108-05-4	0.1-1.0	10 PPM	15 PPM	N.E.	N.E.	N.E.	N.E.	No
Formaldehyde	50-00-0	<0.004	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No
Acetaldehyde	75-07-0	<0.002	N.E.	N.E.	25 PPM	200 PPM	N.E.	N.E.	No

Exposure Notes:

50-00-0 Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A white to off-white paste with a slight sweet odor. CAUTION! May cause eye, skin, nose, throat and respiratory tract irritation. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. May cause dry skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation of dust may cause lung damage or other adverse pulmonary and respiratory effects.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Effects Of Overexposure - Chronic Hazards:

Formaldehyde vapor is a known animal carcinogen according to OSHA and NTP and is considered possibly carcinogenic to humans by inhalation. The International Agency for Research on Cancer considers formaldehyde to be a human carcinogen.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals. This product contains vinyl acetate which is classified as a class 2B carcinogen by IARC. Vinyl acetate was found to cause cancer in the respiratory tract of laboratory animals. There is no evidence that vinyl acetate causes cancer in humans. The IARC published a monograph on vinyl acetate (1995). In this monograph, IARC indicates "there is inadequate evidence in humans for carcinogenicity of vinyl acetate. There is limited evidence in experimental animals for the carcinogenicity of vinyl acetate." Normally, this lack of conclusive evidence would place a substance in the IARC 3 classification (not classified as a human carcinogen). However, because vinyl acetate is metabolized to acetaldehyde, which has an IARC 2B (possibly carcinogenic to humans) classification, it also has been listed under Category 2B. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation

Medical Conditions which May be Aggravated by Exposure: If dry sanded, asthma and asthma-like conditions may worsen from prolonged or repeated exposure to dust.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: Call a physician or Poison Control Center immediately. Do not induce vomiting.

Note to Physician: None.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arises from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: Greater than 200 degrees
Method: (Seta Closed Cup)

Lower Explosive Limit, %: Not Established
Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Unusual Fire And Explosion Hazards: None known.

Special Firefighting Procedures: Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Scrape up dried material and place into containers.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! Do not breathe vapors. Wash thoroughly after handling. Avoid excessive heat and handling. Do not breathe dust. While dry sanding, use of a NIOSH-approved dust mask is recommended. Avoid contact with eyes, skin and clothing. Removal of this product after use will result in the generation of Dust. If dry-sanded, exposure to dust may result in the build-up of material in eyes, ears, nose, and mouth which may cause irritation.

Storage: Store away from caustics and oxidizers. Do not store at temperatures above 120 degrees F. Keep tightly closed. Avoid excessive heat and freezing.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits. Wet sanding is recommended to avoid generation of dust. Prevent build-up of dust and vapors by opening windows and doors or use other means to ensure fresh air entry during application, drying and sanding.

Respiratory Protection: A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. Use an approved NIOSH/OSHA respirator if dry sanded.

Skin Protection: Wear gloves with repeated or prolonged use.

Eye Protection: Safety glasses with side-shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Remove and wash contaminated clothing before re-use.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Not Established
Odor:	Slight Sweet	**Odor Threshold:**	Not Established
Appearance:	White to Off-White	**Evaporation Rate:**	Not Established
Solubility in H2O:	Not Established	**Specific Gravity:**	0.478
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste		

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under normal conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50	WT%
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg	0.5-1.5
108-05-4	Vinyl acetate	----------	Rat:11400 mg/m3/4H	0.1-1.0
50-00-0	Formaldehyde	----------	Rat:203 mg/m3	<0.004
75-07-0	Acetaldehyde	----------	Rat:13300 ppm/4H	<0.002

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP	WT%
108-05-4	Vinyl acetate	Confirmed animal carcinogen with unknown relevance to humans.	Not Listed.	Possible carcinogen.	Not Listed.	0.1-1.0
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Human carcinogen.	Anticipated carcinogen.	<0.004
75-07-0	Acetaldehyde	Confirmed animal carcinogen with unknown relevance to humans.	Not Listed.	Possible carcinogen.	Anticipated carcinogen.	<0.002

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA and NTP identify formaldehyde as a potential carcinogen. IARC identifies formaldehyde as a human carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the

significance of which to humans is unknown. In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits. Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): None

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number	WT%
Ethylene glycol	107-21-1	0.5-1.5
Vinyl acetate	108-05-4	0.1-1.0

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if

exported from the United States:

None.

U.S. State Regulations

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number	WT%
Water	7732-18-5	30-60
Acetic acid, vinyl ester, polymer	Proprietary	10-30
Sodium Borate; Boric Acid, Sodium Salt	7775-19-1	1-5

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number	WT%
Water	7732-18-5	30-60
Acetic acid, vinyl ester, polymer	Proprietary	10-30
Sodium Borate; Boric Acid, Sodium Salt	7775-19-1	1-5

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

Chemical Name	CAS Number	Definition	Date Listed	WT%
Formaldehyde	50-00-0	Carcinogenic.	Listed: January 1, 1988	<0.004
Acetaldehyde	75-07-0	Carcinogenic.	Listed: April 1, 1988	<0.002

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm:

None.

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 9.5 LB/GAL: 0.1 WT%: 1.485

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable

N.E. – Not Established

N.D. – Not Determined

VOC – Volatile Organic Compound

ACGIH – American Conference of Governmental Industrial Hygienists

SARA – Superfund Amendments and Reauthorization Act of 1986

NJRTK – New Jersey Right-to-Know Law

OSHA – Occupational Safety and Health Administration

PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
TLV – Threshold Limit Value	NTP – National Toxicology Program
STEL – Short Term Exposure Limit	CEIL – Ceiling Exposure Limit
LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
F – Degree Fahrenheit	C – Degree Celsius
MSDS – Material Safety Data Sheet	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : WALLBOARD JOINT COMPOUND RTU
UPC NUMBER : 7079810100, 7079810102
PRODUCT USE/CLASS : Joint Compound

MANUFACTURER:
DAP INC.
2400 BOSTON STREET
BALTIMORE, MD 21224

24 HOUR EMERGENCY:
TRANSPORTATION: 1-800-535-5053 (352-323-3500)
MEDICAL : 1-800-327-3874 (513-558-5111)

PREPARE DATE: 12/23/1999
REVISION NO.: 9
REVISION DATE: 07/28/2003

GENERAL INFORMATION:
DAP INC. : 1-888-DAP-TIPS (1-888-327-8477)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	RANGE WT/WT %
01	Mica	12001-26-2	1.0-5.0 %
02	Calcium Carbonate	1317-65-3	60.0-65.0 %
03	Crystalline Silica	14808-60-7	0.1-0.5 %
04	Attapulgite(polygorskite)	12174-11-7	0.1-5.0 %

EXPOSURE LIMITS

ITEM	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	COMPANY TLV-TWA	SKIN
01	3 mg/m3-dust	N.E.	3 mg/m3-dust	N.E.	N.E.	NO
02	10 mg/m3	N.E.	**	N.E.	N.E.	NO
03	0.05 mg/m3*	N.E.	10 mg/m3dust	N.E.	N.E.	NO
04	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

* The 2001 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

** 10 mg/m3 / (% SiO2 + 2): Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics

Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states. Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

(Continued on Page 2)

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May dry skin.

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor may irritate nose and upper respiratory tract.

EFFECTS OF OVEREXPOSURE - INGESTION: None known.

EFFECTS OF OVER EXPOSURE – CHRONIC HAZARDS

The International Agency for Research on Cancer (IARC)has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1– carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as known to be a human carcinogen. Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: Asthma and asthma-like conditions may worsen from prolonged and repeated exposure.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water until irritation subsides. Contact a physician.

SKIN CONTACT: Wash with soap and water.

(Continued on Page 3)

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove to fresh air. Contact a physician immediately.

INGESTION: DO NOT INDUCE VOMITING. Contact a physician or Regional Poison Control Center immediately.

COMMENTS: In case of a medical emergency call: 1-800-327-3874.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200 F (SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A.
UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.E.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

SPECIAL FIREFIGHTING PROCEDURES: Use water spray to cool exposed surfaces.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Scrape up dried material and place into containers.

SECTION 7 - HANDLING AND STORAGE

CAUTION! Removal of this product after use will result in the generation of dust. If dry-sanded, exposure to dust may result in build-up of material in eyes, ears, nose, and mouth which may cause irritation.

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Keep containers away from excessive heating and freezing. Avoid skin and eye contact. Do not inhale dusts of this product.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 degrees F.

OTHER PRECAUTIONS: None.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

(Continued on Page 4)

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: If dry-sanding, provide sufficient mechanical ventilation to maintain exposure below PEL and TLV. Wet sanding is recommended to avoid generation of dust.

RESPIRATORY PROTECTION:
Dry sanding of dried product results in the generation of dust which contains crystalline silica. Avoid exposure to dust by wearing an appropriate, properly fitted, dust respirator during dry sanding. Follow respiratory manufacturer's directions for respirator use.

If the 8 hour exposure limit or value is exceeded for any component, use an approved NIOSH/OSHA respirator. Consult your safety equipment supplier and the OSHA regulation, 29 CFR 1910.134 for respirator requirements. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

The National Institute for Occupational Safety and Health (NIOSH) recommended permissible exposure limit of 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10 hour working day, 40 hours per week.

EYE PROTECTION: Safety glasses with side shields.

SKIN PROTECTION: Gloves recommended for repeated or prolonged contact with skin.

OTHER PROTECTIVE EQUIPMENT: None.

HYGIENIC PRACTICES: Remove contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 210 - 220 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Musty Odor		
APPEARANCE	: Gray Color Paste	EVAPORATION RATE	: Is slower than Butyl Acetate
SOLUBILITY IN H2O	: Miscible		
SPECIFIC GRAVITY	: 1.7157		
VAPOR PRESSURE	: 17.5 mm Hg@68F.		
PHYSICAL STATE	: Paste		

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics.

(Continued on Page 5)

SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx, NOx

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulations, 40 CFR Section 261. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261): None.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by D.O.T.

DOT HAZARD CLASS: NONE

DOT UN/NA NUMBER: NONE PACKING GROUP: NONE

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

(Continued on Page 6)

SECTION 15 - REGULATORY INFORMATION

SARA SECTION 313:
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
No SARA Section 313 components exist in this product.		

TOXIC SUBSTANCES CONTROL ACT:
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

CHEMICAL NAME	CAS NUMBER
No TSCA 12(B) chemicals are known to exist in this product.	

NEW JERSEY RIGHT-TO-KNOW:
The following materials are non-hazardous, but are among the top five components in this product:

CHEMICAL NAME	CAS NUMBER
Water	7732-18-5
Magnesium aluminum silicate	12174-11-7
Vinyl Acetate Polymer	TSRN-618608-5185P

PENNSYLVANIA RIGHT-TO-KNOW:
The following non-hazardous ingredients are present in the product at greater than 3%:

CHEMICAL NAME	CAS NUMBER
Water	7732-18-5

CALIFORNIA PROPOSITION 65:
WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer:

CHEMICAL NAME	CAS NUMBER
Crystalline Silica	14808-60-7

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

(Continued on Page 7)

SECTION 15 - REGULATORY INFORMATION

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 09/10/2002

REASON FOR REVISION:
Section 2. Update exposure limits for crystalline silica.

VOC less water, less exempt solvent: 15-20 g/L
VOC material : 5-10 g/L

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
PEL - PERMISSIBLE EXPOSURE LIMIT
NTP - NATIONAL TOXICOLOGY PROGRAM
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986
STEL - SHORT TERM EXPOSURE LIMIT
TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)
VOC - VOLATILE ORGANIC COMPOUND
NJRTK - NEW JERSEY RIGHT TO KNOW LAW
N.D. - NOT DETERMINED

MSDS# 70288

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End OF MSDS >

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : WALLBOARD JOINT COMPOUND RTU
UPC NUMBER : 7079810100, 7079810102
PRODUCT USE/CLASS : Joint Compound

MANUFACTURER:
DAP INC.
2400 BOSTON STREET
BALTIMORE, MD 21224

24 HOUR EMERGENCY:
TRANSPORTATION: 1-800-535-5053 (352-323-3500)
MEDICAL : 1-800-327-3874 (513-558-5111)

PREPARE DATE: 12/23/1999
REVISION NO.: 9
REVISION DATE: 07/28/2003

GENERAL INFORMATION:
DAP INC. : 1-888-DAP-TIPS (1-888-327-8477)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	RANGE WT/WT %
01	Mica	12001-26-2	1.0-5.0 %
02	Calcium Carbonate	1317-65-3	60.0-65.0 %
03	Crystalline Silica	14808-60-7	0.1-0.5 %
04	Attapulgite(polygorskite)	12174-11-7	0.1-5.0 %

EXPOSURE LIMITS

ITEM	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	COMPANY TLV-TWA	SKIN
01	3 mg/m3-dust	N.E.	3 mg/m3-dust	N.E.	N.E.	NO
02	10 mg/m3	N.E.	**	N.E.	N.E.	NO
03	0.05 mg/m3*	N.E.	10 mg/m3dust	N.E.	N.E.	NO
04	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

* The 2001 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

** 10 mg/m3 / (% SiO2 + 2): Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics

Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states. Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

(Continued on Page 2)

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May dry skin.

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor may irritate nose and upper respiratory tract.

EFFECTS OF OVEREXPOSURE - INGESTION: None known.

EFFECTS OF OVER EXPOSURE – CHRONIC HAZARDS

The International Agency for Research on Cancer (IARC)has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1– carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as known to be a human carcinogen. Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: Asthma and asthma-like conditions may worsen from prolonged and repeated exposure.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water until irritation subsides. Contact a physician.

SKIN CONTACT: Wash with soap and water.

(Continued on Page 3)

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove to fresh air. Contact a physician immediately.

INGESTION: DO NOT INDUCE VOMITING. Contact a physician or Regional Poison Control Center immediately.

COMMENTS: In case of a medical emergency call: 1-800-327-3874.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200 F (SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A.
UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.E.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

SPECIAL FIREFIGHTING PROCEDURES: Use water spray to cool exposed surfaces.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Scrape up dried material and place into containers.

SECTION 7 - HANDLING AND STORAGE

CAUTION! Removal of this product after use will result in the generation of dust. If dry-sanded, exposure to dust may result in build-up of material in eyes, ears, nose, and mouth which may cause irritation.

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Keep containers away from excessive heating and freezing. Avoid skin and eye contact. Do not inhale dusts of this product.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 degrees F.

OTHER PRECAUTIONS: None.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

(Continued on Page 4)

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: If dry-sanding, provide sufficient mechanical ventilation to maintain exposure below PEL and TLV. Wet sanding is recommended to avoid generation of dust.

RESPIRATORY PROTECTION:
Dry sanding of dried product results in the generation of dust which contains crystalline silica. Avoid exposure to dust by wearing an appropriate, properly fitted, dust respirator during dry sanding. Follow respiratory manufacturer's directions for respirator use.

If the 8 hour exposure limit or value is exceeded for any component, use an approved NIOSH/OSHA respirator. Consult your safety equipment supplier and the OSHA regulation, 29 CFR 1910.134 for respirator requirements. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

The National Institute for Occupational Safety and Health (NIOSH) recommended permissible exposure limit of 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10 hour working day, 40 hours per week.

EYE PROTECTION: Safety glasses with side shields.

SKIN PROTECTION: Gloves recommended for repeated or prolonged contact with skin.

OTHER PROTECTIVE EQUIPMENT: None.

HYGIENIC PRACTICES: Remove contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 210 - 220 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Musty Odor		
APPEARANCE	: Gray Color Paste	EVAPORATION RATE	: Is slower than Butyl Acetate
SOLUBILITY IN H2O	: Miscible		
SPECIFIC GRAVITY	: 1.7157		
VAPOR PRESSURE	: 17.5 mm Hg@68F.		
PHYSICAL STATE	: Paste		

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics.

(Continued on Page 5)

SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx, NOx

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulations, 40 CFR Section 261. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261): None.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by D.O.T.

DOT HAZARD CLASS: NONE

DOT UN/NA NUMBER: NONE PACKING GROUP: NONE

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

(Continued on Page 6)

SECTION 15 - REGULATORY INFORMATION

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This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

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NEW JERSEY RIGHT-TO-KNOW:
The following materials are non-hazardous, but are among the top five components in this product:

CHEMICAL NAME	CAS NUMBER
Water	7732-18-5
Magnesium aluminum silicate	12174-11-7
Vinyl Acetate Polymer	TSRN-618608-5185P

PENNSYLVANIA RIGHT-TO-KNOW:
The following non-hazardous ingredients are present in the product at greater than 3%:

CHEMICAL NAME	CAS NUMBER
Water	7732-18-5

CALIFORNIA PROPOSITION 65:
WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer:

CHEMICAL NAME	CAS NUMBER
Crystalline Silica	14808-60-7

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

(Continued on Page 7)

SECTION 15 - REGULATORY INFORMATION

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 09/10/2002

REASON FOR REVISION:
Section 2. Update exposure limits for crystalline silica.

VOC less water, less exempt solvent: 15-20 g/L
VOC material : 5-10 g/L

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
PEL - PERMISSIBLE EXPOSURE LIMIT
NTP - NATIONAL TOXICOLOGY PROGRAM
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986
STEL - SHORT TERM EXPOSURE LIMIT
TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)
VOC - VOLATILE ORGANIC COMPOUND
NJRTK - NEW JERSEY RIGHT TO KNOW LAW
N.D. - NOT DETERMINED

MSDS# 70288

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End OF MSDS >

7677 MATERIAL SAFETY DATA SHEET PAGE 1

ABBREVIATIONS: NA=NOT APPLICABLE
ND=NOT DETERMINED
NE=NOT ESTABLISHED

HEALTH= 0
FLAMMABILITY= 0
REACTIVITY= 0
PERSONAL PROTECTION= +
+ SEE SECTION VII

WHMIS CLASSIFICATION: D2

==========SECTION I PRODUCT IDENTIFICATION AND USE

MATERIAL NAME/IDENTIFIER: 7677 - WALL PATCH / SHUR PATCH - LIGHTWEIGHT PATCHING COMPOUND

MANUFACTURER/SUPPLIER: GH INTERNATIONAL
a division of IKO Industries Ltd.
2540 RENA ROAD
MISSISSAUGA, ONTARIO L4T3C9
PHONE: 1-905-677-5522
EMERGENCY: 1-613-996-6666 CANUTEC(24 hr. emergency information only)

CHEMICAL FAMILY: Mixture
CHEMICAL FORMULA/MOLECULAR WT: NA
TRADE NAME AND SYNONYMS: NA
MATERIAL USE: Spackling/patching compound

==========
SECTION II HAZARDOUS INGREDIENTS

CHEMICAL NAME	OSHA-PEL	ACGIH-TLV	LD50/LC50	%WT/WT
Amorphous Silica	6 mg/m3 -	10 mg/m3 (Total Dust)	ND -	15-25

CAS #63231-67-4
CARCINOGEN: NO

==========
SECTION III PHYSICAL DATA

APPEARANCE, PHYSICAL STATE AND ODOR: White paste, latex odor.
ODOR THRESHOLD (PPM): ND
SPECIFIC GRAVITY/DENSITY (G/ML): 0.43-0.47
VAPOR PRESSURE (MM): 25 Deg. C 18 mm
VAPOR DENSITY (AIR=1): >1
EVAPORATION RATE (BUAC=1): <1
BOILING POINT: 200-215 Deg. F/93-101 Deg. C
MELTING/FREEZING POINT: 0’C
PH: 7.0-9.0
COEFFICIENT OF WATER/OIL DISTRIBUTION: ND
SOLUBILITY IN WATER: Soluble
% VOLATILE BY VOLUME: 20-30

==========SECTION IV FIRE OR EXPLOSION DATA

FLASH POINT: NA - Water based
AUTO IGNITION TEMPERATURE: NA
SENSITIVITY TO MECHANICAL IMPACT: NA
EXPLOSIVE POWER: NA
UPPER EXPLOSION LIMIT: NA
LOWER EXPLOSION LIMIT: NA
RATE OF BURNING: NA
SENSITIVITY TO STATIC DISCHARGE: NA
EXTINGUISHING MEDIA: NA

SPECIAL FIRE FIGHTING PROCEDURES:
NA
UNUSUAL FIRE AND EXPLOSION HAZARDS:
NA
FLAMMABILITY: NO
UNDER WHAT CONDITIONS: NA

==========SECTION V REACTIVITY DATA

STABILITY - MATERIAL IS: Stable
CONDITIONS TO AVOID:
NA
HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS:
Carbon dioxide, carbon monoxide
INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizers
HAZARDOUS POLYMERIZATION:
Will not occur
CONDITIONS TO AVOID:
NA

==========SECTION VI TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY:
Skin - Ingestion
EFFECTS OF OVEREXPOSURE, CHRONIC:
None known
EFFECTS OF OVEREXPOSURE, ACUTE:
Skin: Prolonged/repeated contact may cause slight irritation to sensitive skin. Eyes: Contact may cause irritation. Ingestion: Can cause gastrointestinal upset.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
None known

CARCINOGENICITY: NO
LD50 OF PRODUCT: ND LC50 OF PRODUCT: ND
IRRITANT?: NO SENSITIZER?: NO
SYNERGISTIC MATERIALS: NA
REPRODUCTIVE EFFECTS: NO TERATOGENIC: NO MUTAGENIC: NO
WHMIS CLASSIFICATION: D2

==========SECTION VII PREVENTIVE MEASURES, SAFE HANDLING AND USE,

REGULATORY INFORMATION

LEAK AND SPILL PROCEDURES:

Dike spill area, recover free liquid. Return to container. Add absorbent to spill area.

WASTE DISPOSAL METHOD:

Dispose of according to Federal, State and Local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in cool, dry area. Protect from freezing.

OTHER:

Keep out of the reach of children!

VENTILATION:

NA

RESPIRATORY PROTECTION:

NA

PROTECTIVE GLOVES: NA

EYE PROTECTION: NA

OTHER PROTECTIVE EQUIPMENT: NA

WORK/HYGIENIC PRACTICES:

Remove contaminated clothing, launder before reuse.

REPORTABLE QUANTITY (MIN. UNDER ANY ACT): None

RCRA HAZARDOUS WASTE NO: None

DOT PROPER SHIPPING NAME: Calking and glaziers compound

DOT HAZARD CLASS: Not regulated

IDENTIFICATION NO: NMFC Item No. 149610

VOLATILE ORGANIC COMPOUNDS (VOC): <30 G/L

TDG CLASSIFICATION (CAN): Not regulated

==========SECTION VIII FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

Skin: Wash with soap and water. Eyes: Flush with copious amounts of water. Contact a physician. Ingestion: Contact a physician immediately.

==========SECTION IX PREPARATION INFORMATION

Prepared by: Technical Services Dept.

Date: November 2007

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with the Company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

7677

7677 MATERIAL SAFETY DATA SHEET PAGE 1

ABBREVIATIONS: NA=NOT APPLICABLE
ND=NOT DETERMINED
NE=NOT ESTABLISHED

HEALTH= 0
FLAMMABILITY= 0
REACTIVITY= 0
PERSONAL PROTECTION= +
+ SEE SECTION VII

WHMIS CLASSIFICATION: D2

==========SECTION I PRODUCT IDENTIFICATION AND USE

MATERIAL NAME/IDENTIFIER: 7677 - WALL PATCH / SHUR PATCH - LIGHTWEIGHT PATCHING COMPOUND

MANUFACTURER/SUPPLIER: GH INTERNATIONAL
a division of IKO Industries Ltd.
2540 RENA ROAD
MISSISSAUGA, ONTARIO L4T3C9
PHONE: 1-905-677-5522
EMERGENCY: 1-613-996-6666 CANUTEC(24 hr. emergency information only)

CHEMICAL FAMILY: Mixture
CHEMICAL FORMULA/MOLECULAR WT: NA
TRADE NAME AND SYNONYMS: NA
MATERIAL USE: Spackling/patching compound

==========
SECTION II HAZARDOUS INGREDIENTS

CHEMICAL NAME	OSHA-PEL	ACGIH-TLV	LD50/LC50	%WT/WT
Amorphous Silica	6 mg/m3 -	10 mg/m3 (Total Dust)	ND -	15-25

CAS #63231-67-4
CARCINOGEN: NO

==========
SECTION III PHYSICAL DATA

APPEARANCE, PHYSICAL STATE AND ODOR: White paste, latex odor.
ODOR THRESHOLD (PPM): ND
SPECIFIC GRAVITY/DENSITY (G/ML): 0.43-0.47
VAPOR PRESSURE (MM): 25 Deg. C 18 mm
VAPOR DENSITY (AIR=1): >1
EVAPORATION RATE (BUAC=1): <1
BOILING POINT: 200-215 Deg. F/93-101 Deg. C
MELTING/FREEZING POINT: 0’C
PH: 7.0-9.0
COEFFICIENT OF WATER/OIL DISTRIBUTION: ND
SOLUBILITY IN WATER: Soluble
% VOLATILE BY VOLUME: 20-30

==========SECTION IV FIRE OR EXPLOSION DATA

FLASH POINT: NA - Water based
AUTO IGNITION TEMPERATURE: NA
SENSITIVITY TO MECHANICAL IMPACT: NA
EXPLOSIVE POWER: NA
UPPER EXPLOSION LIMIT: NA
LOWER EXPLOSION LIMIT: NA
RATE OF BURNING: NA
SENSITIVITY TO STATIC DISCHARGE: NA
EXTINGUISHING MEDIA: NA

SPECIAL FIRE FIGHTING PROCEDURES:
NA
UNUSUAL FIRE AND EXPLOSION HAZARDS:
NA
FLAMMABILITY: NO
UNDER WHAT CONDITIONS: NA

==========SECTION V REACTIVITY DATA

STABILITY - MATERIAL IS: Stable
CONDITIONS TO AVOID:
NA
HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS:
Carbon dioxide, carbon monoxide
INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizers
HAZARDOUS POLYMERIZATION:
Will not occur
CONDITIONS TO AVOID:
NA

==========SECTION VI TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY:
Skin - Ingestion
EFFECTS OF OVEREXPOSURE, CHRONIC:
None known
EFFECTS OF OVEREXPOSURE, ACUTE:
Skin: Prolonged/repeated contact may cause slight irritation to sensitive skin. Eyes: Contact may cause irritation. Ingestion: Can cause gastrointestinal upset.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
None known

CARCINOGENICITY: NO
LD50 OF PRODUCT: ND LC50 OF PRODUCT: ND
IRRITANT?: NO SENSITIZER?: NO
SYNERGISTIC MATERIALS: NA
REPRODUCTIVE EFFECTS: NO TERATOGENIC: NO MUTAGENIC: NO
WHMIS CLASSIFICATION: D2

==========SECTION VII PREVENTIVE MEASURES, SAFE HANDLING AND USE,

REGULATORY INFORMATION

LEAK AND SPILL PROCEDURES:

Dike spill area, recover free liquid. Return to container. Add absorbent to spill area.

WASTE DISPOSAL METHOD:

Dispose of according to Federal, State and Local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in cool, dry area. Protect from freezing.

OTHER:

Keep out of the reach of children!

VENTILATION:

NA

RESPIRATORY PROTECTION:

NA

PROTECTIVE GLOVES: NA

EYE PROTECTION: NA

OTHER PROTECTIVE EQUIPMENT: NA

WORK/HYGIENIC PRACTICES:

Remove contaminated clothing, launder before reuse.

REPORTABLE QUANTITY (MIN. UNDER ANY ACT): None

RCRA HAZARDOUS WASTE NO: None

DOT PROPER SHIPPING NAME: Calking and glaziers compound

DOT HAZARD CLASS: Not regulated

IDENTIFICATION NO: NMFC Item No. 149610

VOLATILE ORGANIC COMPOUNDS (VOC): <30 G/L

TDG CLASSIFICATION (CAN): Not regulated

==========SECTION VIII FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

Skin: Wash with soap and water. Eyes: Flush with copious amounts of water. Contact a physician. Ingestion: Contact a physician immediately.

==========SECTION IX PREPARATION INFORMATION

Prepared by: Technical Services Dept.

Date: November 2007

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with the Company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

7677

Material Safety Data Sheet

MSDS # 0033

Series:
#0511
(All Labels)

NFPA Rating: 1-0-0
HMIS Rating: 1-0-0-A

SECTION I		EMERGENCY TELEPHONE NO.
TRADE NAME (IF NONE, PUT CHEMICAL)	Wood Putty Powder	(918) 825-5744 (24 Hrs.)
CHEMICAL NAME AND SYNONYMS		
MANUFACTURER'S NAME AND TELEPHONE NO.	Red Devil, Incorporated (918) 825-5744	
ADDRESS (Number, Street, City, State, Zip Code)	4175 Webb Street, Pryor, Oklahoma 74361	

SECTION II - HAZARDOUS INGREDIENTS	%	TLV	PEL	UNITS
PRODUCT CONSISTS OF:				
Gypsum & Aluminum Silicate (8031-18-3) (as nuisance particulate)	>85.0	10	15	Mg/m3
Wood Flour (as wood dust)	6.5	1.0	NE	Mg/m3
Non-Hazardous Ingredients*	<10.0	NA	NA	
* Unlisted ingredients are not considered hazardous under the OSHA Hazardous Communication Standard (29 CFR 1910.1200)				
VOC: 0%/wt. CARB Compliance: YES. Prop 65 Ingredients: NONE				

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	NA	**SPECIFIC GRAVITY (H_20=1)**	>2.0
VAPOR PRESSURE (MM Hg.)	NA	**PERCENT VOLATILES BY VOLUME (%)**	NA
VAPOR DENSITY (AIR=1)	NA	**pH**	NE
SOLUBILITY IN WATER	Slight	**EVAPORATION RATE**	NA
APPEARANCE AND ODOR	Powder, odorless		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NA	**FLAMMABLE LIMITS**	**LEL** NA	**UEL**	NA
EXTINGUISHING MEDIA	Use media suitable for adjacent materials				
SPECIAL FIRE FIGHTING PROCEDURES	No special procedures required				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None known				

NA - Not Applicable NE - Not Established UN - Unavailable

SECTION V - HEALTH HAZARD INFORMATION

SYMPTOM/EFFECTS OR OVEREXPOSURE

Inhalation of dust may cause respiratory irritation. Possible skin irritation. Eye contact causes irritation. Chronic overexposure may result in lung damage.

FIRST AID

EYES

Flush eyes with large amounts of water. Get medical attention if irritation persists.

SKIN

Wash thoroughly with soap & water. Get medical attention if irritation persists.

INHALATION

Move victim to fresh air. Get medical help if irritation persists.

INGESTION

Contact local poison control center or physician immediately.

SECTION VI - REACTIVITY DATA

STABILITY

Stable

INCOMPATIBLE MATERIALS

None Known

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide, sulfur dioxide

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURES

Carefully clean up spilled material & place in dry containers for disposal. Avoid dust generation.

WASTE DISPOSAL METHOD

Dispose of in accordance with Local, State and Federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY

For symptoms of overexposure, wear a NIOSH-approved respirator for dusts & mists.

EYEWEAR

If potential for eye contact exists, wear chemical goggles.

CLOTHING/GLOVES

Not normally required; in situations of extended skin contact, protective gloves are recommended.

VENTILATION

Local exhaust may be necessary under some handling/use conditions.

SECTION IX - SPECIAL PRECAUTIONS

Store in a closed container in dry area. This product does not contain ingredients listed in Section 313 of SARA Title III.

Reviewed By: Larry G. Brandon (NAME) VP Technology & General Manager (TITLE) January 31, 2006 (DATE)

The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or for the consequences of its use or misuse.

0511

MATERIAL SAFETY DATA SHEET

WALLBOARD JOINT COMPOUND

HMIS

HEALTH	**1**
FLAMMABILITY	**0**
REACTIVITY	**0**
PERSONAL PROTECTION	**B**

1. Product And Company Identification

Supplier
CUSTOM BUILDING PRODUCTS
13001 SEAL BEACH BLVD.
SEAL BEACH, CA 90740 UNITED STATES

Company Contact: GEORGE MARCINA
Telephone Number: (323) 582-0846

Manufacturer
CUSTOM BUILDING PRODUCTS
13001 SEAL BEACH BLVD.
SEAL BEACH, CA 90740 UNITED STATES

Company Contact: GEORGE MARCINA
Telephone Number: (323) 582-0846

Supplier Emergency Contacts & Phone Number
GEORGE MARCINA: (323) 582-0846

Manufacturer Emergency Contacts & Phone Number
GEORGE MARCINA: (323) 582-0846

Issue Date: 08/05/2005

Product Name: WALLBOARD JOINT COMPOUND
CAS Number: Not Established
MSDS Number: 315
Product Code: 2017

Product Identification Text

THIS MSDS IS APPLICABLE TO THE FOLLOWING PRODUCTS:

WALLBOARD JOINT COMPOUND

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
CALCIUM CARBONATE	471-34-1		60 - 70
BENTONITECLAY	1302-78-9		1 - 5

3. Hazards Identification

Primary Routes(s) Of Entry

NUSANCE DUST CAN BE RELEASED DURING DRY SANDING.

EYES, SKIN, NOSE

Eye Hazards

SLIGHT EYE IRRITATION. CORNEAL INJURY IS UNLIKELY.

Skin Hazards

PROLONGED EXPOSURE MAY IRRITATE SKIN.

Ingestion Hazards

INGESTION UNLIKELY

Inhalation Hazards

PROLONGED EXPOSURE TO NUSANCE DUST ABOVE THE THRESHOLD LIMIT VALUE MAY CAUSE IRRITATION TO THE NESE THROAT LUNGS AND UPPER RESPIRATORY TRACT. SHORTNESS OF BREATH

3. Hazards Identification - Continued

Inhalation Hazards - Continued
MAY ALSO OCCUR AFTER EXCESSIVE INHALATION.

Chronic/Carcinogenicity Effects
Contains Bentonite clay which may contain small amounts of Silica, Crystaline Quartz, Class 2A carcinogen

Conditions Aggravated By Exposure
NONE KNOWN.

4. First Aid Measures

Eye
IMMEDIATELY FLUSH WITH WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION

Skin
WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

Ingestion
NO KNOWN EFFECTS

Inhalation
REMOVE TO FRESH AIR. IF NECESSARY, SEEK MEDICAL ATTENTION.

5. Fire Fighting Measures

Flash Point: NONE °F
Flash Point Method: NONE
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A

Fire And Explosion Hazards
MATERIAL IS NON FLAMMABLE

6. Accidental Release Measures

IN CASE MATERIAL IS RELEASED OR SPILLED, AVOID ENTRY INTO SEWERS OR NATURAL WAER WAYS. SOAK UP SMALL SPILLS WITH ABSORBANT MATERIAL. FOR LARGE SPILLS, DIKE AND PUMP INTO SUITABLE CONTAINERS FOR DISPOSAL.

7. Handling And Storage

Handling And Storage Precautions
STORE IN COOL, DRY AREA OUT OF SUNLIGHT. STORE AWAY FROM HEAT OR ANY HEAT SOURCES. PROTECT FROM FREEZING.

Work/Hygienic Practices
HYGEINE AND GOOD HOUSEKEEPING PRACTICES SHOULD BE OBSERVED.

8. Exposure Controls/Personal Protection

Eye/Face Protection
SAFETY GLASSES ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL CONTACT.

Skin Protection
THE USE OF PLASTIC OR RUBBER GLOVES WILL PREVENT SKIN IRRITATION OF SENSITIVE INDIVIDUALS.

Other/General Protection

8. Exposure Controls/Personal Protection - Continued

Ingredient(s) - Exposure Limits

CALCIUM CARBONATE
- ACGIH TLV-TWA 10 mg/m3
- OSHA PEL-TWA 15 mg/m3
- OSHA PEL-TWA 5 mg/m3

BENTONITE CLAY

Classified as niusance dust but respirable dust may contain Silica, Crystalline Quartz, If more than 1% of Silica is present then:
- OSHA PEL - 500 mg / m3
- ACGIH - TLV - 10 mg / m3

9. Physical And Chemical Properties

Appearance

WHITE, CREAMY PASTE

Odor

MILD

Chemical Type: Mixture
Physical State: Liquid
Boiling Point: 212 °F
Specific Gravity: 1.6
Vapor Density: HEAVIER THAN AIR
Solubility: MISSIBLE IN WATER UNTIL DRIED
Evaporation Rate: SLOWER THAN ETHER

10. Stability And Reactivity

Stability: STABLE
Hazardous Polymerization: WILL NOT OCCUR.

Conditions To Avoid (Stability)

NONE KNOWN.

Incompatible Materials

AVOID CONTACT WITH STRONG STRONG ACIDS.

Conditions To Avoid (Polymerization)

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

DISPOSE OF PRODUCT IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.

RCRA Information

Not considered RCRA waste

14. Transport Information

No Data Available...

15. Regulatory Information

Ingredient(s) - State Regulations

CALCIUM CARBONATE
Pennsylvania - Workplace Hazard
BENTONITE CLAY
California - Proposition 65

16. Other Information

HMIS Rating
Health: 1
Fire: 0
Reactivity: 0
Personal Protection: B

Revision/Preparer Information
MSDS Preparer: GEORGE MARCINA
MSDS Preparer Phone Number: (323) 582-0846
This MSDS Supercedes A Previous MSDS Dated: 12/14/2003

Disclaimer

THE INFORMATION PRESENTED HERE IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

CUSTOM BUILDING PRODUCTS

Printed Using MSDS Generator™ 2000

MATERIAL SAFETY DATA SHEET
CGC Brand Fiberglass Tape

CGC Inc.
350 Burnhamthorpe Rd. W., 5th Floor
Mississauga, Ontario L5B 3J1
(905) 803-5600 Fax (905) 803-5688
A Subsidiary of USG Corporation

Product Safety: 1 (800) 507-8899
www.cgcinc.com
Version Date: April 2, 2004
Version: 3

SECTION 1
CHEMICAL PRODUCT AND IDENTIFICATION

PRODUCT: CGC Brand Fiberglass Tape
CHEMICAL FAMILY: Fiberglass with adhesive tape

SECTION 2
COMPOSITION, INFORMATION ON INGREDIENTS

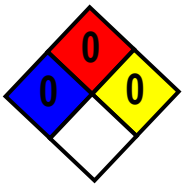
MATERIAL	WT%	TLV (mg/m^3)	PEL(mg/m^3)	CAS NUMBER
Fibrous Glass (Continuous Filament)	65-70	1 f/cc(R)	15(T)/5(R)	65997-17-3

(T) – Total (R) – Respirable (NE) – Not Established mmpfc - million particles per cubic foot of air
All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory. All components of this product are included in the Canadian Domestic Substances List (DSL).

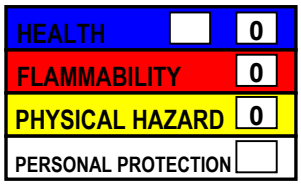
SECTION 3
HAZARD IDENTIFICATION

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:
Health: 0
Fire: 0
Reactivity: 0



HIMS Ratings:
Health: 0
Fire: 0
Reactivity: 0



0 = Minimal Hazard
1 = Slight Hazard
2 = Moderate Hazard
3 = Serious Hazard
4 = Severe Hazard

EMERGENCY OVERVIEW: This product is not expected to produce any unusual hazards during normal use. However, it may be possible to create and release nuisance dust if tape is sanded when sanding joints. Eye, nose and upper respiratory irritation may occur with prolonged exposure to high dust.

POTENTIAL HEALTH EFFECTS

ACUTE:

Eyes: Direct contact of fibers may cause irritation. Direct contact of particulate may cause mechanical irritation of the eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

Skin: Direct contact with the skin may cause irritation.

Inhalation: Overexposure to glass fibers may produce irritation of the nose, throat, and upper respiratory system. Persons subjected to overexposure to large amounts of dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation from dust. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

Ingestion: There are no known health effects due to ingestion. Due to the physical nature of this product, ingestion is unlikely. Wash hands before eating.

CHRONIC: Direct, prolonged or repeated contact with the skin may cause irritation.

MATERIAL SAFETY DATA SHEET
CGC Brand Fiberglass Tape

SECTION 4
FIRST AID MEASURES

FIRST AID PROCEDURES

Eyes: In case of contact, do not rub or scratch your eyes. Flush thoroughly with water for 15 minutes to remove particulates. If irritation persists, consult physician.

Skin: Wash with mild soap and water. If irritation persists, consult physician.

Inhalation: Remove to fresh air. Leave the area of high dust exposure until coughing and other symptoms subside.

Ingestion: Not likely to occur**.** If ingested, call physician.

TARGT ORGANS: Eyes, Skin, and Respiratory System.

PRIMARY ROUTES OF ENTRY: Eyes, Skin, and Respiratory System.

SECTION 5
FIRE FIGHTING MEASURES

General Fire Hazards:	None known.
Extinguishing Media:	Water or use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures:	Fire fighters should wear protective gear appropriate for surrounding fire.
Unusual Fire & Explosion Hazards:	None known.
Hazardous Combustion Products:	None known.

Flash Point:	None Known	**Auto Ignition:**	Not Applicable
Method Used:	Not Applicable	**Flammability Classification:**	Not Applicable
Upper Flammable Limit (UFL):	Not Applicable		
Lower Flammable Limit (LFL):	Not Applicable	**Rate of Burning:**	Not Applicable

SECTION 6
ACCIDENTAL RELEASE MEASURES

CONTAINMENT/ CLEAN-UP:

No special precautions. Dust or loose fibers may be vacuumed or swept up with the aid of a dust suppressant.

DISPOSAL:

In most cases, woven fiberglass scrap can be disposed of in a sanitary landfill.

SECTION 7
HANDLING AND STORAGE

HANDLING:

Avoid contact with skin and eyes.

STORAGE:

Keep dry

MATERIAL SAFETY DATA SHEET
CGC Brand Fiberglass Tape

SECTION 8
EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
Selection of engineering controls will depend on environmental working conditions and operations.

RESPIRATORY PROTECTION:
Special ventilation typically is not necessary, but may be desirable in specific work conditions. Use mechanical or local exhaust ventilation to keep levels below TLV.

OTHER PERSONAL PROTECTIVE EQUIPMENT:
Eye/Face: Wear eye protection (safety glasses or goggles) to avoid particulate irritation of the eye.
Skin: Gloves or protective clothing are usually not necessary, but may be desirable in specific work conditions.
General: Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White woven scrim type fabric.		
Physical State	Solid	**Viscosity**	Not Applicable
Odor	Low to no odor	**Solubility (H2O)**	Not Applicable
pH @ 25 º C	Not Applicable	**Boiling Point**	Not Applicable
Particle Size	Not Applicable	**Melting Point**	Not Applicable
Molecular Weight	Not Applicable	**Softening Point**	Not Applicable
Bulk Density	Not Applicable	**Freezing Point**	Not Applicable
Specific Gravity (H_20 = 1)	Not Applicable	**Vapor Density (Air = 1)**	Not Applicable
Percent Volatile	Zero	**Vapor Pressure (mm Hg)**	Not Applicable
VOC Content	Zero	**Evaporation Rate (BuAc = 1)**	Not Applicable

SECTION 10
CHEMICAL STABILITY AND REACTIVITY

STABILITY: Stable.
CONDITIONS TO AVOID: Contact with incompatibles.
INCOMPATIBILITY: Hydroflouric acid.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: None known.

SECTION 11
TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:
Direct contact may cause eye, skin and/or respiratory irritation.
LD_{50}: Not Available for product. LC_{50}: Not Available for product.

CHRONIC EFFECTS / CARCINOGENICITY:
Direct, prolonged or repeated contact with the skin may cause irritation.

SECTION 12
ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on the ecology.
Ecotoxicity value: Not determined.

SECTION 13
DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
In most cases, woven fiberglass scrap can be disposed of in a sanitary landfill. Dispose of material in accordance with Federal, State, Provincial, and Local regulations

SECTION 14
TRANSPORT INFORMATION

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.

Shipping Name	Same as product name.
Hazard Class:	Not classified
UN/NA #:	None. Not classified.
Packing Group:	None.
Label (s) Required:	Not applicable.
GGVSec/MDG-Code:	Not classified.
ICAO/IATA-DGR:	Not applicable.
RID/ADR:	None
ADNR:	None

SECTION 15
REGULATORY INFORMATION

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

MATERIAL	WT%	302	304	313	CERCLA	CAA Sec. 112	RCRA Code
Fibrous Glass (Continuous Filament)	65-70	NL	NL	NL	NL	NL	NL

Key : NL = Not Listed
SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)
SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)
SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313
CERCLA Hazardous Substances: Reportable Quantity (RQ)
CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)
RCRA Hazardous Waste: RCRA hazardous waste code

MATERIAL SAFETY DATA SHEET
CGC Brand Fiberglass Tape

SECTION 15 REGULATORY INFORMATION (continued)

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. All components of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification:
Fibrous Glass (Continuous Filament)	65-70	Not Listed	Not Listed

IDL Item # : Canadian Hazardous Products Act – Ingredient Disclosure List Item #
WHMIS Classification: Workplace Hazardous Material Information System

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S): None

SECTION 16
OTHER INFORMATION

ΔWARNING!

Avoid exposure to dust. Dust may cause eye, skin, nose, throat or respiratory irritation. Avoid eye contact or inhalation of dust. Wear eye protection. If eye contact occurs, flush thoroughly with water. If dusty conditions exist, wear a NIOSH/MSHA-approved respirator to prevent coughing, sneezing and respiratory irritation. Do not ingest. If ingested, call physician. Product safety information: (800) 507-8899 or www.cgcinc.com
KEEP OUT OF REACH OF CHILDREN.

Key/Legend

TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
CAS	Chemical Abstracts Service (Registry Number)
NIOSH	National Institute for Occupational Safety and Health
MSHA	Mine Safety and Health Administration
OSHA	Occupational Health and Safety Administration
ACGIH	American Conference of Governmental Industrial Hygienists
IARC	International Agency for Research on Cancer
DOT	United States Department of Transportation
EPA	United States Environmental Protection Agency
NFPA	National Fire Protection Association
HMIS	Hazardous Materials Identification System
PPE	Personal Protection Equipment
TSCA	Toxic Substances Control Act
DSL	Canadian Domestic Substances List
NDSL	Canadian Non-Domestic Substances List
SARA	Superfund Amendments and Reauthorization Act of 1986
RCRA	Resource Conservation and Recovery Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
UN/NA#	United Nations/North America number
CFR	Code of Federal Regulations
WHMIS	Workplace Hazardous Material Information System

MATERIAL SAFETY DATA SHEET
CGC Brand Fiberglass Tape

SECTION 16 OTHER INFORMATION (continued)

Prepared by:
Product Safety
USG Corporation
125 South Franklin St.
Chicago, Illinois 60606

Material Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(as Used on Label and List)*
Silicon Carbide Sanding Screen

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's name Superior Abrasives, Inc.

Address *(Number, Street, City, State and ZIP Code)*

4800 Wadsworth Road

Dayton, OH 45413

Emergency Telephone Number 1-937-278-9123

Telephone Number for Information 1-937-278-9123

Date Prepared January 1, 2006

Signature of Preparer *(optional)*

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Abrasive Grain: Silicon Carbide	15mg/m^3	10mg/m^3		55-65
Binding Resin: Epoxy and Phenol Formaldehyde Resin (Cured)	N/A	N/A		5-15
Flexible Backing: Cloth	N/A	N/A		20-30

Section III—Physical/Chemical Characteristics

Boiling Point N/A		Specific Gravity (H_20 = 1) N/A	
Vapor Pressure (mm Hg) N/A		Melting Point N/A	
Vapor Density (AIR = 1)N/A		Evaporation Rate (Butyl Acetate = 1) N/A	

Solubility in Water N/A

Appearance and Odor Cones of cloth coated with abrasive grain and resin binder

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)N/A	Flammable Limits	LEL N/A	UEL N/A

Extinguishing Media Carbon Dioxide, Foam, Water, Dry Chemical

Special Fire Fighting Procedures None

Unusual Fire and Explosion Hazards None

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid None
	Stable XX		

Incompatibility *(Materials to Avoid)* *None*

Hazardous Decomposition or Byproducts None

Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur XX		

Section VI—Health Hazard Data

Route(s) of Entry Inhalation? Airborne Dust Skin? N/A Ingestion? N/A

Health Hazards *(Acute and Chronic)* Acute: Breathing difficulty: skin, eye, nasal, and respiratory irritation.

Carcinogenicity N/A NTP? N/A IARC Monographs? N/A OSHA Regulated? no

Signs and Symptoms of Exposure Deposits of Material on the skin, in the eyes and/or nasal passages. Coughing and/or difficulty Breathing may be present.

Medical Conditions
Generally Aggravated by Exposure Pulmonary Disorders

Emergency and First Aid Procedures Provide fresh air. Flush eyes with approved eye wash.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled No special procedures

Waste Disposal Method By any conventional means

Precautions to Be Taken in Handling and Storing No special procedures

Other Precautions Observe recommended running speeds

Section VII—Control Measures

Respiratory Protection *(Specify Type)* utilize approved respiratory protection for nuisance dust.

Ventilation	Local Exhaust Utilize to keep airborne concentration below limits	Special N/A
	Mechanical *(General)* Appropriate hoods and dust collection recommended	Other N/A

Protective Gloves Recommended to protect skin from abrasion Eye Protection Face shield or goggles when grinding

Other Protective Clothing or Equipment None

Work/Hygienic Practices Ordinary personal cleanliness practices

MATERIAL SAFETY DATA SHEET

NPCA

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by US Department of Labor Essentially Similar to Form OSHA 20)

Date Issued 11/30/05

SECTION I

MANUFACTURER'S NAME
GARDNER ASPHALT CORPORATION.

STREET ADDRESS
4161 E 7TH AVENUE

CITY, STATE, AND ZIP CODE
TAMPA, FL 33605

EMERGENCY TELEPHONE NUMBER
1-800-424-9300

PRODUCT CLASS
ROOF CEMENT MASTIC A/F (WET/DRY) AKA PLASTIC RF CEMENT/FLASHING CEMENT

MANUFACTURER'S CODE IDENTIFICATION
0370-GA, 0375-GA

TRADE NAME
GARDNER, WEATHERSEAL, STA-KOOL, BLACKJACK

SECTION II- HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	TLV PPM	TLV Mg/M3	LEL	VAPOR PRESSURE
PETROLEUM ASPHALT **CAS # - 8052-42-4**	<40%		0.5 Fume		
STODDARD SOLVENT **CAS #- 8052-41-3**	<20%	100			
CELLULOSE FIBER **CAS #- 9004-34-6**	<10%		10*		
SILICATE MINERAL **CAS #- 7631-86-9**	<20%		10*		

ADDITIONAL INFORMATION- * AS RESPIRABLE FRACTION OF DUST

Hazardous Materials Identification System (HMIS)

Health	Flammability	Reactivity	Personal Protection
1	2	1	C

SECTION III – PHYSICAL DATA

BOILING RANGE: 300 ºF - 390ºF VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER, THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER, THAN ETHER PERCENT VOTILE BY VOLUME 60 % WEIGHT PER GALLON BY VOLUME 8.4 LBS

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY - NA **FLASH POINT- 105ºF Minimum**

EXTINGUISHING MEDIA- **CO2, FOAM, & DRY CHEMICAL . DO NOT USE HALOGENATED EXTINGUISHING AGENTS.**

UNUSUAL FIRE AND EXPLOSION HAZARDS- **CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. PRODUCTS OF COMBUSTION MAY BE TOXIC.**

SPECIAL FIRE FIGHTING PROCEDURES- **WEAR MSHA/NIOSH APPROVED POSITIVE BREATHING APPARATUS IS RECOMMENDED FOR FIREFIGHTERS. WATER MAY BE USED TO COOL CLOSED CONTAINERS, BUT MAY CAUSE FROTHING, APPLY CAUTIOUSLY. HIGH PRESSURE STREAM WILL SPREAD FIRE. DO NOT USE HALOGENATED EXTINGUISHING AGENTS!.**

SECTION V – REACTIVITY DATA

STABILITY: ☐ UNSTABLE ☒ STABLE CONDITIONS TO AVOID: SPARK, FLAMES, ELECTRICAL AND STATIC DISCHARGE.

INCOMPATIBILTY (MATERIALS TO AVOID): STRONG OXIDIZERS, ACIDS, AND HALOGENATED CHEMICALS

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, NOX, SOX, H2S AND REACTIVE HYDROCARBONS

HAZARDOUS POLYMERIZATION: ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID: NONE

SECTION VI-HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE- ACUTE: SKIN: PROLONGED REPEATED CONTACT MAY CAUSE IRRITATION. EYES: CONTACT MAY CAUSE IRRITATION, BLURRED VISION, REDNESS. INHALATION: EXCESSIVE BREATHING OF HIGH VAPOR CONCENTRATION CAN CAUSE POSSIBLE UNCONSCIOUSNESS AND EVEN ASPHYXIATION. INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. CARCINOGENICITY: MATERIAL CONTAINS PETROLEUM ASPHALT. IARC HAS DETERMINED THAT THERE IS ANADEQUATE EVIDENCE THAT ASPHALT ALONE IS CARCINOGENIC TO HUMANS, IN SOLUTION; SOLVENT EXTRACTS CAN PRODUCE SKIN CANCER IN ANIMALS FOLLOWING PROLONGED AND REPEATED CONTACT. IARC HAS CONCLUDED THAT THERE IS SUFFICIENT EVIDENCE OF THE CARCINOGENICITY OF ASPHALT EXTRACTS. THEREFORE, CUTBACKS LIKE THIS PRODUCT MAY ALSO BE IMPLICATED AS POTENTIALLY CARCINOGENIC. PLEASE FOLLOW MSDS PRECAUTIONARY MEASURES. SYNERGISTIC MATERIALS: N/A. REPRODUCTIVE EFFECTS: ND. TERATOGENIC: NO. MUTAGENIC: NO.
CALIF. PROP. 65 • CHEMICAL WARNING (CALIFORNIA HEALTH AND SAFETY CODE #25249.5 ET SEQ).
WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or reproductive harm. Read and follow label directions and information given on Material Safety Data Sheets and use care when handling or using all petroleum products.

EMERGENCY FIRST AID PROCEDURE- SKIN: WASH EXPOSED AREAS WITH SOAP AND WATER. EYES: FLUSH EYES WITH COPIOUS AMOUNTS OF WATER , IF SYMPTOMS PERSIST, CONSULT A PHYSICIAN. INHALATION: REMOVE PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT ADMINISTER OXIGEN. IF BREATHING STOPS, GIVE ARTIFICIAL RESPIRATION. SEEK MEDICAL ATTENTION IMMEDIATELY. INGESTION: DO NOT INDUCE VOMITING.

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SOAK UP SPILL WITH SAND OR OTHER ABSORBENT. REMOVE SOURCES OF IGNITION. PLACE IN CONTAINERS. WASH AREA.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH LOCAL, STATE OR FEDERAL REGULATIONS.

SECTION VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NOT NORMALLY REQUIRED IN WELL-VENTILATED AREA. IF TLV IS EXCEEDED, A NIOSH/MSHA APPROVED BREATHING APPARATUS IS RECOMMENDED.

VENTILATION: USE WITH ADEQUATE VENTILATION. MAINTAIN EXPOSURE BELOW TLV LEVEL.

PROTECTIVE GLOVES: NITRILE RUBBER GLOVES SHOULD BE USED, AS WELL AS LONG SLEEVES.

EYE PROTECTION: FACE SHIELD AND SAFETY GOGGLES SHOULD BE USED.

OTHER PROTECTIVE EQUIPMENT: SOLVENT RESISTANT APRON AND BOOTS

SECTION IX – REGULATORY INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN COOL DRY AREA.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN AND AWAY FROM SOURCES OF IGNITION. AVOID CONTACT WITH SKIN OR CLOTHING. KEEP CONTAINER CLOSED. WASH THOROUGHLY AFTER USING.

MATERIAL SAFETY DATA SHEET

MSDS Number: TP004997 Revision Date: May 2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: 808 Cold Application Cement, 829 Fibered Roof Coating
LABEL: TAM-PRO
USE & DESCRIPTION: Roofing Coatings
CHEMICAL FAMILY: Asphalt Mixture

MANUFACTURED FOR:
TAMKO Building Products, Inc.
P.O. Box 1404
Joplin, MO 64802-1404

EMERGENCY TELEPHONE NUMBERS;
General Information: 1-904-284-7571 (8 a.m. - 5 p.m. EST)
1-620-429-1800 (8 a.m. - 5 p.m. CST)
1-417-624-6644 (8 a.m. - 5 p.m. CST)
Chemtrec: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

			Exposure Limits*				
Components	**Cas No.**	**% by Wt.**	**OSHA**		**ACGIH**		
			TWA	**STEL**	**TWA**	**STEL**	**Unit**
Petroleum asphalt	8052-42-4	<70	5 fume	NE	.5 fume	NE	mg/m³
Mineral spirits	8052-41-3	<30	200	NE	100	NE	ppm
Clay**	1332-58-7	<15	15 total dust 5 resp. dust	NE	10 total dust 5 resp. dust	NE	mg/m³ mg/m³
Cellulose fibers	65996-61-4	<6	NE	NE	NE	NE	
Calcium carbonate**	1317-65-3	<5	15 total dust 5 resp. dust	NE	10 total dust 5 resp. dust	NE	mg/m³ mg/m³
**contains: crystalline silica >0.1%		>0.1					
quartz	14808-60-7		0.1	NE	0.1	NE	mg/m³
crystobalite	14464-46-1		0.05	NE	0.05	NE	mg/m³

*See Section 8 for additional relevant exposure limits
NE = Not established

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
WARNING!
COMBUSTIBLE
VAPORS, MISTS OR FUMES MAY IRRITATE THE EYES AND RESPIRATORY TRACT
MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION
DIRECT CONTACT MAY CAUSE EYE AND SKIN IRRITATION
HEATING MAY RELEASE TOXIC HYDROGEN SULFIDE GAS (H2S) WHICH MAY ACCUMULATE IN CONFINED SPACES
ASPIRATION HAZARD IF SWALLOWED
ASPHALT MAY CONTAIN COMPONENTS THAT ARE SKIN CANCER HAZARDS

HMIS Rating:	NFPA Rating:
Health - 1	Health - 2
Flammability - 2	Flammability - 2
Reactivity - 0	Reactivity - 0

Potential Health Effects:

EYE CONTACT: May cause eye irritation resulting in tearing, stinging, redness or swelling. Vapors, mists, or fumes may be irritating.

SKIN CONTACT: Contact may cause skin irritation. Redness, drying and cracking of the skin (dermatitis), may occur following prolonged and repeated contact. In addition, prolonged and repeated exposure to asphalt fumes has been reported to cause an acne-like skin condition, skin discoloration, and may increase sensitivity to the sun (photosensitization).

SKIN ABSORPTION: Not expected to be significant with short-term skin contact. However, prolonged or repeated skin contact may result in absorption of hazardous components.

INGESTION: In general, asphalt products have low toxicity when swallowed. However, this product may cause irritation of the digestive tract followed by vomiting and central nervous system depression (see "Inhalation" for symptoms). If vomiting occurs, small amounts of material can be aspirated into the lung and cause inflammation or damage with chemical pneumonia**.**

INHALATION: Exposure to fumes, vapors, or mists may cause irritation of the nose and throat, and possible signs of central nervous system depression (symptoms may include headache, excitation, dizziness, a loss of coordination, and drowsiness). Loss of consciousness can occur in poorly ventilated or confined spaces. Additional signs and symptoms of exposure may include reduced appetite and abnormal fatigue. Use of this product in well-ventilated working conditions is not expected to cause adverse effects.

NOTE: Hydrogen sulfide (H_2S), an extremely toxic gas, may be emitted from heated asphalt and may accumulate in storage tanks and other confined spaces. At low concentrations, H_2S is irritating to the eyes, nose and throat, and at high concentrations (>500 ppm) can cause rapid unconsciousness and death. The odor of H_2S cannot be used as an indicator of exposure, because the gas causes rapid olfactory fatigue which deadens the sense of smell. Use this product only under well-ventilated working conditions.

CHRONIC EFFECT/CARCINOGENICITY/SPECIAL TOXIC EFFECTS: This product contains petroleum asphalt. Petroleum asphalt is not listed as a carcinogen by OSHA or NTP. The International Agency for Research on Cancer (IARC) has determined there is inadequate evidence that asphalt alone is carcinogenic to humans, and that there is inadequate evidence for the carcinogenicity of undiluted air-refined asphalts in experimental animals. The National Institute of Occupational Safety and Health (NIOSH) has, concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes.

This material contains a hydrocarbon solvent. When dissolved in hydrocarbon solvents, asphalt has produced skin tumors in animals following prolonged and repeated contact. Consequently, IARC has determined that there is sufficient evidence that extracts or cutbacks (asphalts dissolved in hydrocarbon solvents) are carcinogenic to experimental animals. This product may contain small amounts of polyaromatic hydrocarbons which are recognized carcinogens in humans and experimental animals.

This material contains a hydrocarbon solvent. Reports have associated prolonged or repeated occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as “Solvent or Painters Syndrome”. Intentional misuse by deliberately inhaling vapors of this product may be harmful or fatal.

This product contains small amounts of respirable crystalline silica (quartz and crystobalite). IARC and NTP have determined that there is sufficient evidence for the carcinogenicity of respirable crystalline silica in experimental animals and limited evidence for its carcinogenicity in humans.

The presence of crystalline silica in this product is not expected to present an inhalation hazard since the material is not a dust and is typically troweled onto a surface and allowed to harden. In addition, the hardened product is not anticipated to present a health hazard unless is subjected to mechanical forces including grinding, drilling, or other demolition work. In such cases, the silica may be liberated in dust form. Prolonged and repeated exposure to respirable silica-containing dust may have serious lung effects, including silicosis, bronchitis, and lung cancer.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing medical conditions that may be aggravated by exposure include disorders of the skin and respiratory tract including asthma.

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the eye lids to ensure thorough rinsing. Get medical attention if irritation persists. Get immediate medical attention if there is direct eye contact with hot material.

SKIN CONTACT: Clean any exposed skin with warm soapy water. Use a waterless hand cleaner to help remove the asphalt. Do not use solvents or thinners to remove material from skin. Get medical attention if irritation persists or develops.

INGESTION: If swallowed, do not induce vomiting because of danger of aspirating material into lungs, resulting in damage and chemical pneumonia. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration. Get immediate medical attention.

INHALATION: If inhalation overexposure to vapors, mists, or fumes occurs, remove person to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

NOTES TO PHYSICIAN: Medical personnel can soften and remove asphalt with petroleum jelly or white mineral oil.

In general, emesis induction is unnecessary in high viscosity products. Also contains mineral spirits that, when aspirated into the lung, may result in chemical pneumonia. If large volumes have been swallowed, gastric lavage should be considered. Patients may be predisposed to pneumonia during convalescence, and should be kept under observation. Inhalation exposure of hydrogen sulfide may also result in pulmonary congestion. Contact a Poison Center for additional treatment information.

5. FIRE FIGHTING MEASURES

FLASH POINT (METHOD): 112 ºF (COC)

FLAMMABLE LIMITS (% VOLUME IN AIR - SOLVENT COMPONENT):
Lower= 0.8
Upper = 7.0

AUTOIGNITION TEMPERATURE: 460 ºF

EXTINGUISHING MEDIA: Dry chemical and carbon dioxide or foam, are preferred. Avoid use of straight-stream water.

SPECIAL FIRE FIGHTING PROCEDURES: Combustible. Avoid breathing irritating and potentially toxic fumes, including hydrogen sulfide gas. Firefighters should not enter confined spaces without wearing NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment. Water may be used to cool containers in a fire-exposed area.

UNUSUAL FIRE OR EXPLOSION HAZARDS: When heated above the flashpoint of the mineral spirit component (100^{o}F), fumes may burn if ignition source is provided. Petroleum asphalt fumes can explode if emitted in an enclosed environment and supplied with an ignition source. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED: Combustible. Handling equipment must be grounded to prevent sparking. Remove ignition sources, ventilate area, and avoid inhalation or skin contact by using appropriate precautions outlined in this MSDS (see Section 8). Stop leak and contain spilled material with absorbent material. Collect adsorbed product and clean up materials in appropriate container for proper disposal. Move containers from spill area. For larger spills, keep unnecessary people away. Stay upwind of and away from spill. Notify proper authorities. Prevent materials from entering drains, sewers, or waterways. Spills entering surface waters or sewers (entering/leading to surface waters), that cause a sheen, must be reported to the National Response Center **(**1-800-424-8802).

WASTE DISPOSAL METHODS: Dispose in accordance with applicable Federal, State and Local regulations.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Store away from heat and all ignition sources and open flames in accordance with applicable laws and regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Follow protective controls outlined in this MSDS (see Section 8). Avoid all ignition sources. Storage areas should be ventilated to reduce fire and explosion hazards, and possible overexposure of personnel to fumes and vapors. Keep containers closed when not in use. Do not store near food and beverages or smoking materials.

NOTE: Hydrogen sulfide (H_2S), an extremely toxic gas, may be emitted from heated asphalt and may accumulate in storage tanks and other confined spaces.

Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.

To prevent fire or explosion risk from static accumulation and discharge, effectively ground product transfer system in accordance with NFPA standard for petroleum products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Normally not needed in well-ventilated areas. If applicable standards are exceeded or are likely to be exceeded, use a NIOSH/MSHA approved, contaminant-specific, air-purifying respirator. If such concentrations are sufficiently high that this respirator is inadequate, or high enough to cause oxygen deficiency, use a positive pressure self-contained breathing apparatus (SCBA). Follow all applicable respirator use, fitting, and training standards and regulations.

EYE PROTECTION: Chemical safety goggles or face shield needed if spraying or eye contact is possible.

SKIN: Chemical resistant gloves, apron, or other protective clothing needed to prevent skin contact.

VENTILATION: Use only with adequate ventilation to maintain exposures below appropriate exposure limits. Local exhaust ventilation and/or enclosure of the process may be required. All equipment must be explosion proof.

EXPOSURE GUIDELINES: See section 2 for component materials.

Additional potentially relevant exposure limits are listed below:

		Exposure Limits				
Components	**CAS No.**	**OSHA**		**ACGIH**		
		TWA	**STEL**	**TWA**	**STEL**	**Unit**
Xylene	1330-20-7	100	150	100	150	ppm

Other Information:
Avoid prolonged or repeated skin contact. Remove contaminated clothing; launder or dry clean before reuse. Workers should wash their hands before breaks, meals, smoking and using toilet facilities. Product is readily removed from skin by waterless hand cleaners followed by washing with soap and water. Do not use solvents or thinners to remove material from skin.

A fresh water supply, including an eye wash for emergency first aid, and washing facilities should be readily available. An oil-dissolving skin cleaner should be available.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Black liquid solvent odor.

BOILING POINT: 315 ºF

Ph: Not applicable

MELTING POINT: Not applicable

SPECIFIC GRAVITY: 0.98 – 1.0

VAPOR PRESSURE: 2mm @ 70 ºF

VAPOR DENSITY (AIR = 1): 5

% VOLATILE, BY VOLUME: <30

SOLUBILITY IN WATER: Negligible

EVAPORATION RATE (BUTYL ACETAT = 1): <0.1

OTHER PHYSICAL AND CHEMICAL DATA: None

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Keep from heat, sparks, open flame, and other sources of ignition. Avoid contact with strong oxidizing agents. Prevent vapor accumulation.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILTY (MATERIALS TO AVOID): Strong acids or bases, oxidizing agents and selected amines.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, ozone, hydrogen sulfide, oxides of sulfur and various hydrocarbons.

11. TOXICOLOGICAL INFORMATION:

According to NIOSH, research has identified low levels of Polycyclic Aromatic Hydrocarbons (PAHs) in laboratory generated asphalt fumes. Benzo(a)pyrenes, known carcinogens, have been identified in field-generated asphalt fumes. Asphalt roofing fume condensates and fractions have been shown to contain chemicals known as PAC's, which have a chemical structure similar to known carcinogens and genotoxins. Laboratory-generated asphalt fumes have been shown to be genotoxic. Laboratory-derived roofing asphalt fume condensates have been shown to be mutagenic, clastogenic, and inhibit intracellular communication in mammalian cells.

Laboratory studies have shown chemical extracts of asphalt fumes to be carcinogenic to the skin of experimental animals following lifetime exposures, and to show positive mutagenicity in screening bioassays. The relevance of these studies to human exposures is not known at this time. Inhalation studies have not been conclusive regarding asphalt's carcinogenic potential; however, adverse lung effects were seen in several species of laboratory animals.

Skin application of undiluted air-refined (oxidized) asphalt to experimental animals has not resulted in skin tumors. The results were weakly positive when the samples were applied in a solvent vehicle.

12. ECOLOGICAL INFORMATION: No specific data on this product. Product may cause mechanical damage to aquatic organisms. The mineral spirit component is expected to volatilize in the environment and to be moderately toxic to both freshwater and marine organisms. The bioaccumulation potential is unknown.

13. DISPOSAL CONSIDERATIONS: Dispose in accordance with Federal, State and Local regulations. Prevent materials from entering drains, sewers, or waterways. Do not dump on the ground.

14. TRANSPORT INFORMATION:

DOT PROPER SHIPPING NAME: TARS, LIQUID

DOT HAZARD CLASSIFICATION: Combustible Liquid. Non-regulated in non-bulk quantities (less than 119 gallons each). This exception to 49 CFR is cited at 173.150(f).

DOT LABELING REQUIREMENTS: Combustible Liquid

UN/NA NUMBER: NA1999

PLACARDS: Combustible Liquid

IMDG CODE: Hazardous for vessel transport under the IMDG Code

IMDG SHIPPING NAME: Tars, Liquid

IMDG HAZARD CLASS: 3

UN/ID NUMBER: UN 1999

PACKING GROUP NUMBER: PG III

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA): The components in this product are listed on the TSCA Inventory.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA): The material contains xylene. The reportable quantities for xylene are 1000 lb. Any release of this product that results in a release of xylene equal to or exceeding the reportable quantity must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 117,302.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III:
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES:
Immediate Health
Delayed Health
Fire Hazard

SECTION 313 REPORTABLE INGREDIENTS:

Chemical Name	CAS Number	Concentration (% by Wt.)
Xylene	1330-20-7	<1

CALIFORNIA PROPOSITION 65
WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

- Preparation Date: March 1997
- Revised:
  - August 2004 (DOT Transport information and Prop 65 language)
  - August 2005 (Changes in emergency contact information)
  - June 2006 (Company name change)
  - May 2007 (Formatting Issues)
- Replaces: None

Disclaimer of Liability

The information and recommendations contained herein are to the best of **TAMKO Building Products, Inc.'s** knowledge and belief, accurate and reliable as of the date issued. **TAMKO Building Products, Inc.** does not warrant or guarantee their accuracy or reliability, and **TAMKO Building Products, Inc.** shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

Material Safety Data Sheet - MSDS

ExpertSeal Asphalt Repair
ExpertSeal Pot Hole Patch

Section 1. Chemical Product and Company Identification

Trade name : ExpertSeal Asphalt Repair
ExpertSeal Pot Hole Patch

Material Uses : Asphalt repair and maintenance.

Supplier : ExpertSeal
1483, Sainte-Marguerite
Mercier, QC J6R 2L1
Tel: 1-800-573-7325
Tel: 1-450-698-0264
Fax: 1-450-698-0265

Validation Date : **2/25/2004.**

In Case of Emergency : 1-800-573-7325

Manufacturer : ExpertSeal
1483, Sainte-Marguerite
Mercier, QC J6R 2L1
Tel: 1-800-573-7325
Tel: 1-450-698-0264
Fax: 1-450-698-0265

Copeland Coatings Co. Inc.
P.O. Box 595, 3600 Route 20
Nassau, NY, 12123
Tel: 1-800-303-4219

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	UN number
Limestone	1317-65-3	70-100	Not regulated.
Liquid Petroleum Asphalt	8052-42-4	3-5	Not regulated.
Fuels, diesel	68334-30-5	1-3	UN1202

This product is a manufactured product under the Canadian WHMIS. Therefore it is EXEMPTED from the regulatory requirements under WHMIS. This MSDS has been written for workers using this product.

Section 3. Hazards Identification

Physical State and Appearance : Solid. (Granular solid.)

Emergency Overview : WARNING!
MAY CAUSE RESPIRATORY TRACT IRRITATION.
Keep container closed. Use with adequate ventilation.

Routes of Entry : Skin contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes : Slightly hazardous in case of eye contact (irritant).

Skin : Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin.

Inhalation : Hazardous in case of inhalation (lung irritant).

Ingestion : Slightly hazardous in case of ingestion.

Potential Chronic Health Effects : **CARCINOGENIC EFFECTS**: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: : Repeated or prolonged exposure is not known to aggravate any medical condition. This product contains substances that may be hazardous to human health but the risk of exposure to such substances is found negligeable. This is why it is not classified under WHMIS.

Over-exposure signs/symptoms : Not available.

See Toxicological Information (section 11) for a partial list of welding fumes ingredients.

Continued on Next Page

Section 4. First Aid Measures

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact : Wash with soap and water. Get medical attention if irritation develops. Do not attempt to remove cold asphalt. Do not use solvents to clean skin covered with asphalt. Vegetable oil may be used to remove asphalt residue on skin surface.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Notes to Physician : No specific antidot, medical staff contact Poisons Information Centre.

Section 5. Fire Fighting Measures

Flammability of the Product : Non-flammable.

Auto-ignition Temperature : Not applicable.

Flash Points : Not applicable.

Flammable Limits : Not applicable.

Products of Combustion : Not applicable.

Fire Hazards in Presence of Various Substances : Not applicable.

Explosion Hazards in Presence of Various Substances : Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions : Use extinguishing media suitable for surrounding materials.

Protective Clothing (Fire) : Not applicable.

Section 6. Accidental Release Measures

Small Spill and Leak : Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill and Leak : Use a shovel to put the material into a convenient waste disposal container.

Section 7. Handling and Storage

Handling : Keep container closed. Use with adequate ventilation.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls, Personal Protection

Engineering Controls : Keep in a cool, well-ventilated place.

Personal Protection

Eyes : Safety glasses.

Body : Chemical resistant protective suit.

Respiratory : Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hands : Gloves.

Feet : Boots.

Protective Clothing (Pictograms) :

Continued on Next Page

Personal Protection in Case of a Large Spill : Splash goggles. Full suit. Boots. Gloves. Vapor respirator. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Exposure Limits

Liquid Petroleum Asphalt — ACGIH TLV (Canada, 2001). : TWA: 0.5 mg/m^3 8 hour(s). Form: Fume

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance : Solid. (Granular solid.)

Color : Black.

Odor : Petroleum.

Molecular Weight : Not applicable.

Molecular Formula : Not applicable.

pH (1% Soln/Water) : Not applicable.

Boiling/Condensation Point : 295 to 705°C (563 to 1301°F)

Melting/Freezing Point : Not available.

Specific Gravity : 2.6 to 2.8 (Water = 1)

Vapor Pressure : Not available.

Vapor Density : Not available.

Volatility : 1% (v/v).

Odor Threshold : Not available.

Evaporation Rate : Not available.

VOC : 1 (%)

Viscosity : Not available.

$LogK_{ow}$: Not available.

Solubility : Insoluble in cold water, hot water.

Section 10. Stability and Reactivity

Stability and Reactivity : The product is stable.

Conditions of Instability : None known.

Incompatibility with Various Substances : Reactive with oxidizing agents, acids.

Hazardous Decomposition Products : Not available.

Hazardous Polymerization : Will not occur.

Section 11. Toxicological Information

Fuels, diesel	LD50	7500 mg/kg	Oral	Rat

Chronic Effects on Humans : **CARCINOGENIC EFFECTS**: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Other Toxic Effects on Humans : Hazardous in case of inhalation (lung irritant).
Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.
Non-sensitizer for skin.

Special Remarks on Toxicity to Animals : Not available.

Special Remarks on Chronic Effects on Humans : This product contains substances that may be hazardous to human health, but the risk of exposure to such substances is found to be negligeable, in the normal conditions of use.

Continued on Next Page

Section 12. Ecological Information

BOD and COD : Not available.

Biodegradable/OECD : Not available.

Mobility : Not available.

Products of Degradation : These products are carbon oxides (CO, CO_2). Some metallic oxides.

Toxicity of the Products of Biodegradation : Not available.

Special Remarks on the Products of Biodegradation : Not available.

Section 13. Disposal Considerations

Waste Information : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
Canada (TDG)	Not regulated.	Not controlled under TDG.	-	-		-

NAERG : Not applicable.

Section 15. Regulatory Information

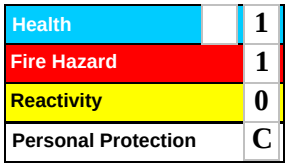
WHMIS (Canada) : Not controlled under WHMIS (Canada).
CEPA DSL: Liquid Petroleum Asphalt; Fuels, diesel

CEPA NDSL: Limestone

This product is a manufactured product under the Canadian WHMIS. Therefore it is EXEMPTED from the regulatory requirements under WHMIS. This MSDS has been written for workers using this product.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)

References : -Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List". - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002. -Manufacturer's Material Safety Data Sheet.

Responsible Name : **Kemika XXI inc. +1-450-435-7475**

Date of Previous Issue : **No Previous Validation.**

Version : **1**

Notice to Reader

Continued on Next Page

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Material Safety Data Sheet

Data prepared: January 26, 2007 Data revised: 1st edition

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: New Stronger-Faster Gorilla Glue®

Product Type: Polyurethane adhesive for wood and wood substrates

Distributor: The Gorilla Glue Company
4550 Red Bank Expressway
Cincinnati, OH 45227
Tel: (513) 271-3300
Fax: (513) 527-3742
Emergency: During business hours: The Gorilla Glue Company: (800) 966-3458.
Outside business hours: Prosar International Poison Center: (800) 420-7186.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	% content
Urethane prepolymer	trade secret	40-50
Polymeric MDI*	9016-87-9	50-60

*Polymeric MDI is a mixture of 4,4'-Diphenylmethane-diisocyanate, isomers and homologues.

3. HAZARDS IDENTIFICATION

Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

4. FIRST AID MEASURES

Inhalation If aerosol or vapour is inhaled in high concentrations: Move affected individual to fresh air and keep him warm, let him rest. If there is difficulty in breathing; call a doctor.

Eye contact Flush eyes for at least 10 minutes while holding eyelids open. Contact a doctor.

Skin contact Remove contaminated clothes immediately, and wash skin with a cleanser based on polyethylene glycol or with plenty of warm water and soap. Consult a doctor in the event of a skin reaction.

Ingestion Product is not intended to be ingested or eaten. If this product is ingested, severe irritation of the gastrointestinal tract may occur, and should be treated symptomatically. Do not induce the patient or animal to vomit. Call a doctor, ambulance or seek veterinarian assistance immediately.

5. FIRE FIGHTING MEASURES

Upper flammable limit (UFL): Not determined

Lower flammable limit (LFL): Not determined

NFPA: Health – 3, Flammability – 1, Reactivity – 1

HMIS: Health – 3, Flammability – 1, Reactivity – 1

General fire hazards

Down-wind personnel must be evacuated. Do not reseal contaminated containers; a chemical reaction generating carbon dioxide gas pressure may occur resulting in rupture of the container. Dense smoke is emitted when product is burned without sufficient oxygen. When using water spray, boil-over may occur when product temperature reaches the boiling point of water, and the reaction forming carbon dioxide will accelerate. MDI vapour and other gases may be generated by thermal decomposition.

Special hazards in fire
In case of fire, formation of carbon monoxide, carbon dioxide, nitrogen oxide, isocyanate vapour, and traces of hydrogen cyanide is possible.

Extinguishing Media
Carbon dioxide, dry powder, and foam. In cases of large scale fires, alcohol-resistant foams are preferred. If water is used, it should be used in very large quantities. The reaction between water and isocyanate may be vigorous.

Required special protective equipment for fire-fighters
Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

6. ACCIDENTAL RELEASE MEASURES
Personal precautions
Wear full-protective clothing and respiratory protection as required maintaining exposures during clean-up below the applicable exposure limits.

Environmental precautions
Do not discharge spillage into drains.

Clean-up procedures
Remove mechanically; cover remainders with wet absorbent material (e. g. sand, earth, sawdust). After approx. one hour transfer to waste container and do not seal (evolution of CO_2). Keep damp in a safe ventilated area for several days.

7. HANDLING AND STORAGE
Handling
Avoid contact with skin and eye. Do not smoke, eat and drink at the work-place.
Ventilation: If vapour or mist is generated during processing or use, local exhaust ventilation should be provided to maintain exposures below the applicable limits.
Personal protection: see Section 8.

Storage
Keep product away from sources of alcohols, amines, or other materials that react with isocyanates. Avoid prolonged heating above 160°C/320°F. Store the product in tightly closed containers in a well-ventilated place and in accordance with national regulations. Keep out of reach of children.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION
For exposure controls see Section 15.

Component exposure limits

Name	CAS no.	Type	ppm	mg/m³
4,4'-Diphenylmethane diisocyanate	101-68-8	OSHA PEL	0.02	0.2
		ACGIH (TLV-TWA)	0.005	

Personal protection equipment

General	Wear suitable protective clothing, protective gloves and protective goggles/mask.
Suitable materials for safety gloves	Natural rubber/natural latex – NR (>= 0.5 mm) Polychloroprene – CR (>= 0.5mm) Nitrile rubber – NBR (>= 0.35mm) Butyl rubber – IIR (>= 0.5 mm) Fluorinated rubber – FKM (>= 0.4 mm)

Personal protection equipment (continued)

Respiratory protection	Required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.
Eyes protection	Chemical goggles or full face shields are recommended. An eyewash fountain and safety shower should be available in the work area. Contact lenses should not be worn when working with this product.
Skin protection	Wear special gloves and working clothes to avoid skin irritation or sensitization. Depending on operation, chemical resistant boots, overshoes, and apron may also be required. Suitable materials for clothing: Polyethylene/ethylene vinyl alcohol laminates (PE/VAL) has been reported as an effective material of construction for chemical protective clothing for MDI.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form..... Liquid
Color..... Dark-Brown
Odor..... Earthy, musty
Boiling point..... >300°C
Flash point..... >250°C
Vapour pressure..... <0,00001 mbar at 20° C (diphenyl-methane-diisocyanate)
Specific gravity..... Approx. 1,14 g/cm³ at 20° C
Viscosity..... 4,000 – 7,000 mPa.s at 25°C (Brookfield sp. 6/20 rpm)
Solubility in water..... reacts
Percent VOC..... 0%

10. STABILITY AND REACTIVITY

Stability

The product is stable under the recommended handling and storage conditions (see section 7).

Hazardous decomposition products

By exposure to high temperature, hazardous decomposition products may develop, such as isocyanate vapour and mist, carbon dioxide, carbon monoxide, nitrogen oxide, and traces of hydrogen cyanide.

Hazardous reaction

Exothermic reaction with amines and alcohols; reacts with water forming heat, CO_2, and insoluble polyurea. The combined effect of CO_2 and heat can produce enough pressure to rupture a closed container.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	LD_{50} oral, rat: > 5000 mg/kg Skin and mucous membrane compatibility, rabbit: Skin 8 hour's exposure – slight reddening. Eyes – moderate reddening and slight swelling.
Inhalation	Over-exposure may cause irritating effects on nose throat and respiratory tract.
Skin contact	Prolonged or repeated contact may result in tanning and irritating effects.
Eye contact	Over-exposure may cause irritating effects on eyes.

12. ECOLOGICAL INFORMATION

Do not allow the product to escape into waters, wastewater or soil.

Biodegradability	0% after 28 days
Acute fish toxicity	LC0 > 1,000 mg/l (96 hrs.)
Toxicity for daphnia	EC 50 > 1,000 mg/l (24 hrs.)
Acute bacteria toxicity	EC 50 > 100 mg/l (3 hrs.)

13. DISPOSAL CONSIDERATIONS

The product remnants are classified as chemical waste. Dispose of waste according to Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

This preparation is not classified dangerous according to international transport regulations ADR/RID/IMDG/IATA.

Other information: This product is not dangerous cargo. Irritating to skin and mucous membranes. Keep separated from foodstuffs.

15. REGULATION INFORMATION

This product and its components are listed on the TSCA 8(b) inventory.

Symbol	
Hazard designation	Xn – Harmful.
Contains	4,4'- Diphenylmethane diisocyanate (MDI), isomere.
R-phrases	R20 – Harmful by inhalation. R36/37/38 – Irritating to eyes, respiratory system and skin. R42/43 – May cause sensitization by inhalation and skin contact.
S-phrases	S23 – Do not breathe gas/fumes/vapour/spray. S36/37 – Wear suitable protective clothing and gloves. S45 – In case of accident or if you feel unwell, seek medical advice immediately. (show the label where possible).

Any existing national regulations on the handling of isocyanates must be observed.

16. OTHER INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or Provincial, and Local laws.

The Gorilla Glue Company does not test on animals, nor do we require our suppliers to test on animals. Any information provided in this MSDS is based on existing scientific testing of the various raw materials, and is not commissioned by this Company.

Date 01/26/2007

Safety Data Sheet for New Stronger-Faster Gorilla Glue

3503: GUTTER & LAP SEALANT

MSDS Last updated: 03/29/1999

MSDS SHEET FOR DAP GUTTER & LAP SEALANT #3503

*** SECTION 1 PRODUCT IDENTIFICATION ***

MANUFACTURER'S NAME: DAP INC.
MANUFACTURER'S ADDRESS: P.O. BOX 277
DAYTON, OH 45401-0277
EMERGENCY TELEPHONE: 1-800-535-5053 (TRANSPORTATION)
1-800-327-3874 (MEDICAL)

DISTRIBUTOR'S NAME: IMPERIAL SUPPLIES LLC
DISTRIBUTOR'S ADDRESS: 789 PACKER DRIVE
GREEN BAY, WI 54304
INFORMATION TELEPHONE: 1-800-558-2808

PRODUCT NAME: DAP GUTTER & LAP SEALANT WH
PRODUCT NO.: 18182
IMPERIAL NO.: 3503

*** SECTION 2 HAZARDOUS INGREDIENTS ***

ITEM	CHEMICAL NAME	CAS #	%
01	MINERAL SPIRITS	8052-41-3	10-15

EXPOSURE LIMITS

	ACGIH		OSHA		COMPANY	
ITEM	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	100PPM	N.E.	100 PPM	N.E.	N.E.	NO

*** SECTION 3 HAZARDS IDENTIFICATION ***

EMERGENCY OVERVIEW: DANGER! COMBUSTIBLE LIQUID AND VAPOR. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED.

POTENTIAL HEALTH EFFECTS:
EFFECTS OF OVEREXPOSURE: EYE CONTACT: MAY CAUSE EYE IRRITATION.
EFFECTS OF OVEREXPOSURE: SKIN CONTACT: MAY CAUSE SKIN IRRITATION. MAY IRRITATE SKIN. PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS (RASH).
EFFECTS OF OVEREXPOSURE: INHALATION: VAPOR HARMFUL IF INHALED. VAPOR MAY IRRITATE NOSE AND UPPER RESPIRATORY TRACT. VAPOR INHALATION MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE, OR NAUSEA.

EFFECTS OF OVEREXPOSURE: INGESTION: THIS MATERIAL MAY BE HARMFUL OR FATAL IF SWALLOWED. IF INGESTED, THIS PRODUCT MAY CAUSE VOMITING, DIARRHEA, AND DEPRESSED RESPIRATION.
EFFECTS OF OVEREXPOSURE: CHRONIC HAZARDS: REPORTS HAVE ASSOCIATED PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE WITH PROLONGED AND REPEATED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: NONE KNOWN.

PRIMARY ROUTES OF ENTRY: SKIN CONTACT AND INHALATION

*** SECTION 4 FIRST AID MEASURES ***

EYE CONTACT: FLUSH WITH LARGE QUANTITIES OF WATER UNTIL IRRITATION SUBSIDES.
SKIN CONTACT: WASH WITH SOAP AND WATER.
INHALATION: REMOVE TO FRESH AIR.
INGESTION: DO NOT INDUCE VOMITING.
COMMENTS: CALL MEDICAL IN SECTION 1 IF IRRITATION OR COMPLICATIONS ARISE FROM ANY OF THE ABOVE ROUTES OF ENTRY.

*** SECTION 5 FIRE FIGHTING MEASURES ***

FLASH POINT: 120 F SETAFLASH CLOSED CUP
LEL: N.A.
UEL: N.A.
AUTOIGNITION TEMPERATURE: N.A.
EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM,
UNUSUAL FIRE AND EXPLOSION HAZARDS: CONTAINERS MAY EXPLODE IF EXPOSED TO EXTREME HEAT. ELIMINATE SOURCES OF IGNITION: HEAT, ELECTRICAL EQUIPMENT, SPARKS, AND FLAMES. DO NOT PUT IN CONTACT WITH OXIDIZING OR CAUSTIC MATERIALS.
SPECIAL FIREFIGHTING PROCEDURES: AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR TO PROTECT FROM COMBUSTION PRODUCTS. USE WATER SPRAY TO COOL EXPOSED SURFACES.

*** SECTION 6 ACCIDENTAL RELEASE MEASURES ***

SPILL OR LEAK PROCEDURES: DIKE SPILL AREA. USE ABSORBENT MATERIAL OR SCRAPE UP DRIED MATERIAL AND PLACE INTO CONTAINERS.

*** SECTION 7 HANDLING & STORAGE ***

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID CONTACT WITH EYES. AVOID BREATHING VAPORS. USE ONLY IN A WELL VENTILATED AREA.
STORAGE INFORMATION: STORE AWAY FROM CASUTICS AND OXIDIZERS. KEEP AWAY FROM HEAT, SPARK, AND FLAME. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. KEEP CONTAINERS FROM EXCESSIVE HEAT AND FREEZING. DO NOT STORE AT TEMPERATURES ABOVE 120 DEGREES F.
OTHER PRECAUTIONS: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING VAPORS MAY BE HARMFUL OR FATAL. DO NOT TAKE INTERNALLY.

*** SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION ***

ENGINEERING CONTROLS: PROVIDE SUFFICIENT MECHANICAL VENTILATION (LOCAL OR GENERAL EXHAUST) TO MAINTAIN EXPOSURE BELOW PEL AND TLV. VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS. CHECK ALL LOW AREAS (BASEMENTS, SUMPS, ETC.) FOR VAPOR BEFORE ENTERING.
RESPIRATORY PROTECTION: A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. IF 8 HOUR EXPOSURE LIMIT OR VALUE IS EXCEEDED FOR ANY COMPONENT, USE AN APPROVEDNIOSH RESPIRATOR. CONSULT YOU SAFETY EQUIPMENT SUPPLIER AND THE OSHA REGULATION, 29 CFR 1910.134 FOR RESPIRATOR REQUIREMENTS.
EYE PROTECTION: GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS RECOMMENDED.
SKIN PROTECTION: SOLVENT IMPERVIOUS GLOVES.
OTHER PROTECTIVE EQUIPMENT: PROVIDE EYEWASH AND SOLVENT IMPERVIOUS APRON IF BODY CONTACT MAY OCCUR.
HYGIENIC PRACTICES: REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

*** SECTION 9 PHYSICAL & CHEMICAL PROPERTIES ***

BOILING RANGE: 310-320 F
ODOR: PETROLEUM ODOR
APPEARANCE: COLORED PASTE
SOLUBILITY IN H20: NEGLIGIBLE
SPECIFIC GRAVITY: 1.4511
VAPOR PRESSURE: 2.0 MM HG @ 68 F
PHYSICAL STATE: PASTE
VAPOR DENSITY: IS HEAVIER THAN AIR
EVAPORATION RATE: IS SLOWER THAN BUTYL ACETATE

*** SECTION 10 STABILITY & REACTIVITY ***

CONDITIONS TO AVOID: EXCESSIVE HEAT AND FREEZING.
INCOMPATIBILITY: STRONG OXIDIZERS AND CAUSTICS.
HAZARDOUS DECOMPOSITION PRODUCTS: NORMAL DECOMPOSITION PRODUCTS, I.E. COx, NOx
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.
STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

*** SECTION 11 TOXICOLOGICAL PROPERTIES ***

NO PRODUCT OR COMPONENT TOXICOLOGICAL INFORMATION IS AVAILABLE.

*** SECTION 12 ECOLOGICAL INFORMATION ***

NO INFORMATION

*** SECTION 13 DISPOSAL CONSIDERATIONS ***

WASTE MANAGEMENT/DISPOSAL: DISPOSE OF ACCORDING TO FEDERAL, STATE, AND LOCAL STANDARDS. THIS PRODUCT DOES NOT MEET THE DEFINITION OF A HAZARDOUS WASTE ACCORDING TO U.S. EPA HAZARDOUS WASTE MANAGEMENT REGULATIONS, 40 CFR SECTION 261. STATE AND LOCAL REGULATIONS/RESTRICTIONS ARE COMPLESX AND MAY DIFFER FROM FEDERAL REGULATIONS. RESPONSIBILITY FOR PROPER WASTE DISPOSAL IS WITH THE OWNER OF THE WASTE.

EPA WASTE CODE: IF DISCARDED (40 CFR 261): D001-IGNITABLE

*** SECTION 14 TRANSPORTATION INFORMATION ***

DOT PROPER SHIPPING NAME: NOT REGULATED BY D.0.T.
DOT HAZARD CLASS: NONE
DOT UN/NA NUMBER: NONE
PACKING GROUP: NONE

*** SECTION 15 REGULATORY INFORMATION ***

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

SARA SECTION 313:
THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:
NONE.

TOXIC SUBSTANCES CONTROL ACT:
THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:
NONE.

NEW JERSEY RIGHT-TO-KNOW:

THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT:

BUTYL RUBBER, SOYBEAN OIL, POLYMER, CALCIUM CARBONATE

PENNSYLVANIA RIGHT-TO-KNOW:
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%:

BUTYL RUBBER, CALCIUM CARBONATE

CALIFORNIA PROPOSITION 65:
WARNING: THE CHEMCICAL NOTED BELOW AND CONTAINED IN THIS PRODUCT, ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:
NONE.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: B3 COMBUSTIBLE LIQUID. SOLD ON RETAIL MARKET.

*** SECTION 16 OTHER INFORMATION ***

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0
VOC LESS WATER, LESS EXEMPT SOLVENTS: 175-185 GMS/1(12-13%)
VOC MATERIAL: 175-185 GM/1

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Spartan Chemical Company, Inc.
Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):

CONCRETE SEAL

Product Number: 2977

Product Division:

Janitorial

Spartan Chemical Company, Inc.

1110 Spartan Drive

Maumee OH 43537

Product/Technical Information: **1-(800)-537-8990**

Medical Emergency: **1-(888)-314-6171 (24 hours)**

Chemical Leak/Spil Emergency: **CHEMTREC 1-(800) 424-9300 (24 hours)**

Shipping Description:	Buffing, polishing compounds, liquid, n.o.s.

NFPA Ratings:		**HMIS Ratings:**	
Health:	2 - Moderate	**Health:**	*2 - Moderate; Chronic Hazard
Fire:	2 - Moderate	**Fire:**	2 - Moderate
Reactivity:	0 - Minimal	**Reactivity:**	0 - Minimal
		Pers. Prot. Equip.:	See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	% W	CAS Registry No.	Table Z- 1 - A			NTP, IARC or OSHA Carcinogen
			TWA mg/m^3	STEL mg/m^3	CELING mg/m^3	
*1,2,4-Trimethylbenzene	25-30	95-63-6	125	Not Established	Not Established	No
Acrylic polymer	15-20	Proprietary	Not Established	Not Established	Not Established	No
*Xylene	1-5	1330-20-7	435	655	Not Established	No
Cumene	1-5	98-82-8	245	Not Established	Not Established	No
Aromatic hydrocarbon	45-55	64742-95-6	100 (ExxonMobile)	Not Established	Not Established	No

Comment: *This substance is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and of 40 CFR 372.

SECTION III: PHYSICAL DATA

Boiling Point:	311 °F	Vapor Pressure:	2.7 mm Hg @ 20°F

Vapor Density (AIR = 1):	>1	Solubility in Water:	Nil
pH:	N/A	Specific Gravity (H_2O=1):	0.90
Evaporation Rate (but.ace.=1):	0.19	Percent Solid by Weight:	15-20
Physical State:	Liquid		

Appearance & Odor:	Water clear, slightly viscous, aromatic

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point:	107°F	Method Used:	ASTM-D56
Flammable Limits:	LEL - 1.0 UEL - 6.5	Flame Extension:	N/A

Extinguishing Media:	Small Fires: extinguish with dry chemical, CO_2, or foam. Large Fires: The use of dry chemical or foam is recommended. Water may be an ineffective extinguishing agent.
Special Fire Fighting Procedures:	The use of a SCBA is recommended for fire fighters. Water may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes.
Unusual Fire & Explosive Hazards:	This material is combustible and may be ignited by heat or flame. This material will burn, but not ignite readily.

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not established	Primary Routes of Entry:	Inhalation, Skin Contact, Eyes

Effects of Overexposure-Conditions to Avoid:	**Causes Eye irritation:** Direct contact with the liquid or exposure to its vapors or mists may cause burning, tearing, redness and swelling. **May Cause Skin Irritation:** Prolonged or repeated exposure to this material may cause redness and burning, drying and cracking of the skin. Persons with pre-existing skin disorders may be more susceptible to the effects of this material. **Inhalation:** Breathing high concentrations of vapors or mists may cause irritation of the nose and throat, signs of nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Prolonged or repeated exposure to vapors or mists may cause liver and kidney damage. Persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties due to the irritant properties of this material. **Harmful if Swallowed:** Ingestion may cause irritation of the digestive tract and signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination, and fatigue). **Aspiration hazard** - this material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.
Conditions Aggravated by Use:	Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis.

Emergency & First Aid Procedures:

Eyes:	Move victim away from exposure to vapors and into fresh air. Remove contact lenses. If irritation or redness develops; seek medical attention. For direct contact; flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.
Skin:	Removed contaminated clothing. Cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists; seek medical attention.
Ingestion:	Call physician immediately. Do not induce vomiting. Keep person at rest. Small amounts of this product aspirated into the respiratory system during

	ingestion or vomiting may cause mild to severe pulmonary injury.
Inhalation:	If symptoms of exposure develop; move victim away from source of exposure and into fresh air. If symptoms persist; seek immediate medical attention. If victim is not breathing; artificial respiration should be administered. If breathing difficulties develop; oxygen should be administered by qualified personnel.

SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	This product is incompatible with strong acids or bases; oxidizing agents and selected amines.
Hazardous Decomposition Products:	CO, CO_2	Hazardous Polymerization:	Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:	Pick up with absorbent material and dispose of in accordance with state and local regulations.
Waste Disposal Method:	Use qualified disposal service.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection:	The use of respiratory protection is advised when concentrations exceed the established exposure limits (see Section II), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, systems safe for such locations should be used.
Ventilation:	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Wear neoprene, nitrile or other solvent resistant gloves.
Eye Protection(Specify Type):	Splash Goggles
Other Protective Equipment:	Use of other protective equipment such as an impermeable apron should be considered in order to prevent or minimize contact with this product. See 29 CFR 1910.132-138 for further guidance.

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing:	Keep containers tightly closed. Keep containers cool; dry and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize; cut; weld; braze; solder; drill; grind or expose such containers to heat; flame; sparks or other sources of ignition; they may explode and cause injury or death. "Empty" drums should be completely drained; properly bunged and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed on in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this product; refer to Occupational Safety and Health Administration regulations; ANSI Z49.1; and other governmental and industrial references pertaining to cleaning; repairing; welding or other contemplated operations.
Other Precautions:	During use; eliminate any source of ignition. Remove all foodstuffs and packaging materials from area to be coated.

© SCC 12/14/2005

	Name:	Ronald T. Cook	Title:	Manager, Regulatory Affairs
CONCRETE SEAL	Effective Date:	12/14/2005	Supercedes:	01/05/2000
Ref: 29 CFR 1910.1200 (OSHA)	Changes:	Update Sections I, II, V, VIII		

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MATERIAL SAFETY DATA SHEET

MSDS Name: CS-150 LATEX CONCRETE CRACK SEALANT
MSDS Number: 15011
Version Number 2
MSDS Date: OCT-18-2002

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:	**CS-150 LATEX CONCRETE CRACK SEALANT**
HMIS Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0 PPE: B
Company Identification:	**OSI SEALANTS, INC.a Subsidiary of Sovereign Specialty Chems.** 7405 PRODUCTION DRIVE MENTOR OH 44060
Information phone/Fax:	(440) 255-8900 / (440) 974-8358
Emergency Phone (24 hour)	CHEMTREC (800) 424-9300
Chemtrec (outside-USA)	(703) 527-3887
Product Class	CAULK
Trade Name	**PRO-SERIES**
Product Code	15011

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
MINERAL SPIRITS	64742-48-9	< 2.0	Y
ETHYLENE GLYCOL	107-21-1	< 2.0	Y

Ingredient Notes:
Remaining ingredients are not considered OSHA hazardous.

- -

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form:	High viscosity caulk -
Appearance/Color:	GRAY
Solubility (in water):	yes
pH Value, +/-.3:	7.5
Boiling Range:	212.°F (100.°C)
Vapor Pressure (mmHg):	17.@ 68.°F (20.°C)
Evaporation Rate:	0.5 times Slower than n-Butyl Acetate

Vapor Density: Heavier than air

% Volatile, Weight 20.%
% Volatile, Volume 30.%
Specific Gravity: 1.401
VOC (less H2O or exempt) 40 gr/L (2%)

NOTE:
Odor : Mild acrylic odor. Freeze Point : 32 Deg F

- -

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)
Flammability Class OSHA=N
Flash Range: Not Applicable
Explosive Range (LEL/UEL): Not Applicable

EXTINGUISHING MEDIA:
Dry chemical -- Carbon Dioxide -- Foam -- Water Fog
Will not burn in wet state.
SPECIAL FIRE-FIGHTING PROCEDURES:
Water may be used to cool and protect exposed containers.
Caution should be taken because uncured material is water soluble.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Any closed container may burst when exposed to extreme
heat or fire.

- -

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:
ENTRY THROUGH...Inhalation and skin most likely

CARCINOGENICITY...
NTP? N/E | IARC Monographs? N/E | OHSA? NO
EFFECTS OF OVEREXPOSURE
Inhalation: May cause nose or throat irritation.
Skin/Eye Contact: May cause irritation.
Ingestion: Swallowing large amounts may cause nausea,
vomiting. (an unlikely route of entry)
FIRST AID MEASURES
Inhalation: If affected by inhalation, remove to fresh air.
Eye Contact: Flush with water for at least 15 minutes, and

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get prompt medical attention.
Skin Contact: Wash skin thoroughly with soap and water.
Ingestion: Drink water, and get medical attention.

N/A= Not applicable N/AV=Not available N/E, N/est=Not established

CHRONIC HAZARDS

Swallowing Ethylene glycol may cause gastrointestinal irritation.

- -

SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATABILITY:

None

CONDITIONS TO AVOID:

None

HAZARDOUS DECOMPOSITION PRODUCTS:

May produce oxides of carbon and oxides of nitrogen when burned.

- -

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:

Wear appropriate protective clothing. Add dry absorbent and shovel or sweep up. Place in an appropriate container and seal.

WASTE DISPOSAL METHOD:

Dispose of in accordance with Federal, State, and Local regulations.

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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
MINERAL SPIRITS	100.00 PPM	N/est	N/est	N/est	100.00 PPM
ETHYLENE GLYCOL	50.00 PPM	N/est	N/est	N/est	50.00 PPM

RESPIRATORY PROTECTION:

NIOSH respirators recommended if vapors and mists are generated.

VENTILATION:
Local exhaust is recommended for safe practice.
PROTECTIVE CLOTHING:
Gloves and clothing should be worn to prevent repeated skin contact.
EYE PROTECTION:
Splashproof goggles or safety glasses should be worn.
HANDLING AND STORAGE PRECAUTIONS:
Keep from freezing. Keep away from heat.
Keep containers closed when not in use.
Avoid prolonged or repeated contact with skin.
Keep out of the reach of children.

- -

SECTION IX - TRANSPORT INFORMATION:

DOT CLASSIFICATIONS FOR ONE GALLON AND UNDER CONTAINERS

DESCRIPTION: Non-hazardous
DOT CLASSIFICATIONS for OVER 1 GALLON size CONTAINERS

DESCRIPTION: Non-hazardous, Caulking product

- -

SECTION X - REGULATORY INFORMATION:
SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 2.0

The following ingredients are registered for TSCA 12B

Ingredient Name	CAS Number	Percent
ETHYLENE GLYCOL	107-21-1	< 2.0

California PROP.65 Chemicals: none known

Ethylene Glycol fits the EPA Hazard Category definition of Immediate (Acute) and Delayed (Chronic) Health Hazards under SARA Sect.311,312.

All chemical substances are TSCA listed.

DISCLAIMER:

The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and the user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment, and the health and safety of the users of this material.

MATERIAL SAFETY DATA SHEET
Portland Cement

SECTION 1 - IDENTIFICATION

Product Name: Types I, I/IILA, I/II, IIILA, Red Bag, White Portland

Manufacturer's Name and Address: ALAMO CEMENT COMPANY
P.O. Box 34807
San Antonio, Texas 78265

Telephone Numbers: In Texas: 1(800) 292-5510 - Other: 1(210) 208-1880

Chemical Name and Synonyms: Portland Cement. Portland Cement is also know as hydraulic cement.

Preparation Date: July 9, 2007. Replaces any prior versions.

Chemical Family: Calcium compounds. Calcium silicate compounds and other calcium compounds containing iron and aluminum make up the majority of this product,

Major Compounds:

$3CaO\text{-}SiO_2$	Tricalcium Silicate
$2CaO\text{-}SiO_2$	Dicalcium Silicate
$3CaO\text{-}A1_2O_3$	Tricalcium Aluminate
$4CaO\text{-}A1_2O_3\text{-}Fe_2O_3$	Tetracalcium Aluminoferrite
$CaSO_4\text{-}2H_2O$	Calcium Sulfate Dihydrate or Gypsum
$CaCO_3$	Calcium Carbonate or Limestone

Formula: This product consists of finely ground Portland cement clinker mixed with a small amount of calcium sulfate dihydrate (Gypsum).

SECTION 2 - COMPONENTS

Hazardous Ingredients: Portland cement clinker (CAS #65997-5-1) – approximately 95% by weight
ACGIH TLV-TWA (1995-1996)=10mg total dust/m^3
OSHA PEL (8-hour TWA)=50 million particles/ft^3
Gypsum (CAS #7778-18-9) – approximately 5% by weight
ACGIH TLV-TWA (1995-1996)=10mg total dust/m^3
OSHA PEL (8-hour TWA)=10mg total dust/m^3
OSHA PEL (8-hour TWA)=5mg respirable dust/m^3

Quartz (CAS #14808-60-7)-less than 0.1% by weight or volume
ACGIH TLV-TWA (1995-1996)=0.10mg respirable quartz dust/m^3
OSHA PEL (8-hour TWA)=(10mg of respirable dust/m^3)/(Percent silica + 2)
NIOSH REL (8-hour TWA)=0.05mg respirable quartz dust/m^3

Trace Constituents: Portland cement is made from materials mined from the earth and is processed using energy provided by fossil fuels. Trace amounts of naturally occurring, potentially harmful chemicals might be detected during chemical analysis. For example, Portland cement may contain up to 2.0% insoluable residue, some of which may be free crystalline silica. Other trace constituents may include calcium oxide (also known as free lime or quick lime), free magnesium oxide, potassium and sodium sulfate compounds, chromium compounds, and nickel compounds.

SECTION 3 – HAZARDS IDENTIFICATION

Emergency Overview: Portland Cement is a light gray powder that poses little immediate hazard. A single short term exposure to the dry powder is not likely to cause serious harm. However, exposure of sufficient duration to wet Portland cement can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns, including third degree burns. The same type of tissue destruction can occur if wet or moist areas of the body are exposed for sufficient duration to dry Portland Cement.

Potential Health Effects:

Relevant Routes of Exposure: Eye Contact, skin contact, inhalation, and ingestion.

Effects resulting from eye contact: Exposure to airborne dust may cause immediate or delayed irritation or inflammation.

Eye contact by larger amounts of dry powder or splashes of wet Portland cement may cause effects ranging from moderate eye irritation to chemical burns and blindness. Such exposures require immediate first aid (see section 4) and medical attention to prevent significant damage to the eye.

Effects resulting from skin contact: Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure. Consequently, the only effective means of avoiding skin injury or illness involves minimizing skin contact, particularly contact with wet cement. Exposed persons may not feel discomfort until ours after the exposure has ended and significant injury has occurred.

Exposure to dry Portland cement may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation or other conditions, Dry Portland cement contacting wet skin or exposure to moist or wet Portland cement may cause more severe skin effects including thickening, cracking, fissuring of the skin. Prolonged exposure can cause severe skin bdamage in the form of (caustic) chemical burns.

Some individuals may exhibit an allergic response upon exposure to Portland cement, possibly due to trace amounts of chromium. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers. Persons already sensitized may react to their first contact with the product. Other persons may first experience this effect after years of contact with Portland cement products.

Effects resulting from inhalation: Portland cement may contain trace amounts of free crystalline silica. Prolonged exposure to respirable free crystalline silica may aggravate other lung conditions. It also may cause delayed injury including silicosis, a disabling and potentially fatal lung disease. (Also see "Carcinogenic potential" below).

Exposure to Portland cement may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system. It may also leave unpleasant deposits in the nose.

Effects resulting from ingestion: Although small quantities of dust are not known to be harmful, ill effects are possible if larger quantities are consumed. Portland cement should not be eaten.

Carcinogenic potential: Portland cement is not listed as a carcinogen by NTP, OSHA, or IARC. It may however, contain trace amounts of substances listed as carcinogens by these organizations.

Crystalline silica, a potential trace level contaminant in Portland cement, is now classified by IARC as a known human carcinogen (Group 1). NTP has characterized respirable silica as "reasonably anticipated to be a carcinogen".

Medical conditions which may be aggravated by inhalation or dermal exposure: Pre-existing upper respiratory and lung diseases.

Unusual (hyper) sensitivity to hexavalent chromium (chromium^{+6}) salts.

SECTION 4 – FIRST AID

Eyes: Immediately flush eyes thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

Skin: Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment in all cases of prolonged exposure to wet cement, cement mixtures, liquids from fresh cement products, or prolonged wet skin exposure to dry cement.

Inhalation of Airborne Dust: Remove to fresh air. Seek medical help if coughing and other symptoms do not subside. ("Inhalation" of gross amounts of Portland cement require immediate medical attention.)

Ingestion: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

SECTION 5 – FIRE & EXPLOSION DATA

Flash point.....none
Lower Explosive Limit.....none
Upper Explosive Limit.....none
Auto ignition temperature.....not combustible
Extinguishing media.....not combustible
Special fire fighting procedures.....none

(Although Portland cement poses no fire related hazards, a self contained breathing apparatus is recommended to limit exposure to combustion products when fighting any fire.)

Hazardous combustion products.....none
Unusual fire and explosion hazards.....none

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Collect dry material using a scoop. Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin. Wear appropriate personal protective equipment as described in Section 8.

Scrape up wet material and place in appropriate container. Allow the material to dry before disposal. Do not attempt to wash Portland cement down drains.

Dispose of waste material according to local, state, and federal regulations.

SECTION 7 – HANDLING AND STORAGE

Keep Portland cement dry until used. Normal temperatures and pressures do not affect the material

Promptly remove dusty clothing or clothing which is wet with cement fluids and launder before reuse. Wash thoroughly after exposure to dust or wet cement mixtures or fluids.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin Protection: Prevention is essential to avoiding potentially severe skin injury. Avoid contact with unhardened Portland cement. If contact occurs, promptly wash affected area with soap and water. Where prolonged exposure to unhardened Portland cement products might occur, wear impervious clothing and gloves to eliminate skin contact. Where required, wear sturdy boots that are impervious to water to eliminate foot and ankle exposure.

Do not rely on barrier creams: Barrier creams should not be used in place of gloves.

Periodically wash areas contacted by dry Portland cement or by wet cement or concrete fluids with a pH neutral soap. Wash again at the end of the work. If irritation occurs, immediately wash the affected area and seek treatment. If clothing becomes saturated with wet concrete, it should be removed and replaced with clean dry clothing.

Respiratory Protection: Avoid actions that cause dust to become airborne. Use local or general ventilation to control exposures below applicable exposure limits.

Use NIOSHA/MSHA-approved (under 30 CFR 11) or NIOSH-approved (under 42 CFR 84) respirators in poorly ventilated areas, if an applicable exposure limit is exceeded, or when dust causes discomfort or irritation. (Advisory: Respirators and filters purchased after July 10, 1998 must be certified under 42 CFR 84).

Ventilation: Use local exhaust or general dilution ventilation to control exposure within applicable limits.

Eye Protection: Where potentially subject to splashes or puffs of cement, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with Portland cement or fresh cement products.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....Gray Powder
Odor.....No distinct odor
Physical state.....Solid (powder)
pH (in water).....12 to 13
Solubility in water..Slightly soluble (0.1 to 1.0%)
Vapor pressure.....Not applicable
Vapor density.....Not applicable
Boiling point.....Not applicable
Melting Point.....Not applicable
Specific gravity (H_2O=1.0) 3.15
Evaporation rate.....Not Applicable

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Unintentional contact with water.

Incompatibility: Wet Portland cement is alkaline. As such it is incompatible with acids, ammonium salts and phosphorous.

Hazardous decomposition: Will not spontaneously occur. Adding water produces (caustic) calcium hydroxide.

Hazardous polymerization: Will not occur.

SECTION 11 – TOXILOGICAL INFORMATION

For a description of available, more detailed toxicological information, contact the supplier or manufacturer.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: No recognized unusual toxicity to plants or animals.

Relevant physical and chemical properties: See Sections 9 and 10

SECTION 13 - DISPOSAL

Dispose of waste material according to local, state and federal regulations. (Since Portland cement is table, uncontaminated material may be saved or future use.)

Dispose of bags in an approved landfill or incinerator.

SECTION 14 – TRANSPORTATION DATA

Hazardous materials description proper shipping name: Portland cement is not hazardous under U.S. Department of Transportation (DOT) regulations.

Hazard class: Not Applicable

Identification Number: Not Applicable

Required label text: Not Applicable

Hazardous substances/ reportable quantities (RQ) – Not applicable

SECTION 15 – OTHER REGULATORY INFORMATION

Status Under USDOL-OSHA Hazard Communication Rule, 29 CFR 1910, 1200: Portland cement is considered a "hazardous chemical" under this regulation and should be part of any hazard communication program.

Status under MSHA CFR 30 Part 47: NIOSH REL: TWA 10mg/m^3 (total) TWA 5MG/M^3 (RESP).

Status under CFRCLA/Superfund, 40 CFR 117 and 302: Not listed

Hazard Category under SARA (Title III), Sections 311 and 312: Portland cement qualifies as a "hazardous substance" with delayed health effects.

Status under SARA (Title III), Section 313: Not subject to reporting requirements under section 313.

Status under TSCA (as of May 1997): Some substances in Portland cement are on the TSCA inventory list.

Status under the Federal Hazardous Substances Act: Portland cement is "a hazardous substance" subject to statutes promulgated under the subject act.

Status under California Proposition 65: This product contains chemicals (trace metals) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the manufacturer to give the above warning in the absence of definitive testing to prove that the defined risks do not exist.

Status under Canadian Environmental Protection Act: Not listed.

Status under WHMIS: Portland cement is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class E – Corrosive Metal) and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS).

SECTION 16 – OTHER INFORMATION

Revision date: July 9, 2007

Date of previous MSDS: December 30, 2006

Other Important Information: Portland cement should only be used by knowledgeable persons. A key to using the product safely requires the user to recognize that Portland cement chemically reacts with water, and that some of the intermediate products of this reaction (that is, those present while a Portland cement product is "setting" pose a far more severe hazard than does Portland cement itself.

While the information provided in this material safety data sheet is believed to provide a useful summary of the hazards of Portland cement as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product.

SELLER MAKES NO WARRANTY , EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY Alamo Cement Co., except that the product shall perform to contracted specification. The information provided herein was believed by Alamo Cement Co. to be accurate at the time of preparation or prepared from the sources to believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery or product, and whether based on contract, breach of warranty , negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

In particular , the data furnished in this do not address hazards that may be posed by other materials mixed with Portland cement to produce Portland cement products. Users should review other relevant material safety data sheets before working with this Portland cement or working on Portland cement products, for example, Portland cement concrete.

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name:	DAP® Wallboard Joint Compound	**Revision Date:**	04/27/2007
Product UPC Number:	070798300705 070798301207	**Supercedes:**	07/28/2003
Product Use/Class:	RTU Spackle/Wallboard Repair	**MSDS Number:**	00070288605
Manufacturer:	**DAP Canada Corporation 475 Finchdene Square Unit 5 Scarborough, Ontario M1X 1B7 888-327-8477 (non-emergency matters)**		

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Calcium carbonate	1317-65-3	40-70	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	No
Mica	12001-26-2	1-5	3 MGM3	N.E.	N.E.	5 MGM3	N.E.	N.E.	No
Magnesium aluminum silicate	12174-11-7	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Silica, crystalline	14808-60-7	0.1-1.0	0.05 MGM3	N.E.	N.E.	10/(%SiO2 + 2) MGM3	N.E.	N.E.	No
Ethylene glycol	107-21-1	0.1-1.0	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No

Exposure Notes:

14808-60-7 The 2002 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

The TLVs for crystalline silica represent the respirable fraction.

OSHA PEL TWA for Quartz is calculated using the following formula: 10 mg/m3/(% SiO2 + 2). Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics.

|---|---|

..... Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A white to off-white paste product with a musty odor. CAUTION! This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: Direct eye contact may cause irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. May cause dry skin.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation of dust may cause lung damage or other adverse pulmonary and respiratory effects.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Effects Of Overexposure - Chronic Hazards:

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals.

The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2).

Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease.

Primary Route(s) Of Entry: Skin Contact, Inhalation

Medical Conditions which May be Aggravated by Exposure: If dry sanded, asthma and asthma-like conditions may worsen from prolonged or repeated exposure to dust.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water.

First Aid - Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

First Aid - Ingestion: Do not induce vomiting. Call a physician or Poison Control Center immediately.

Note to Physician: None.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arises from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: Greater than 200 degrees
Method: (Seta Closed Cup)

Lower Explosive Limit, %: Not Established
Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: None known.

Special Firefighting Procedures: Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Scrape up dried material and place into containers.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! Avoid contact with skin and eyes. Wash thoroughly after handling. Do not breathe dust. While dry sanding, use of a NIOSH-approved dust mask is recommended. Removal of this product after use will result in the generation of Dust. If dry-sanded, exposure to dust may result in the build-up of material in eyes, ears, nose, and mouth which may cause irritation. Avoid excessive heat and handling.

Storage: Store away from caustics and oxidizers. Do not store at temperatures above 120 degrees F. Keep tightly closed. Avoid excessive heat and freezing.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits. Wet sanding is recommended to avoid generation of dust. Prevent build-up of dust and vapors by opening windows and doors or use other means to ensure fresh air entry during application, drying and sanding.

Respiratory Protection: A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. Use an approved NIOSH/OSHA respirator if dry sanded.

National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m3) as determined by a full shift sample up to 10-hour work shift.

Skin Protection: Wear gloves with repeated or prolonged use.

Eye Protection: Safety glasses with side-shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Remove and wash contaminated clothing before re-use.

Section 9 - Physical And Chemical Properties

Boiling Range:	210 - 220 F	**Vapor Density:**	Heavier Than Air
Odor:	Musty	**Odor Threshold:**	Not Established
Appearance:	White to Off-White	**Evaporation Rate:**	Slower Than n-Butyl Acetate
Solubility in H2O:	Not Established	**Specific Gravity:**	1.8
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	17.5 mm Hg @ 68F	**Viscosity:**	Not Established
Physical State:	Paste		

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Strong bases. Strong oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under normal conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50	WT%
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg	0.1-1.0

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP	WT%
14808-60-7	Silica, crystalline	Suspected human carcinogen.	Not Listed.	Human carcinogen.	Known carcinogen.	0.1-1.0

Significant Data with Possible Relevance to Humans: None.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): none

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	**Packing Group:**	N.A.
DOT Technical Name:	N.A.	**Hazard Subclass:**	N.A.
DOT Hazard Class:	N.A.	**DOT UN/NA Number:**	None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

U.S. State Regulations

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number	WT%
Water	7732-18-5	15-40

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number	WT%
Water	7732-18-5	15-40

California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 15.3 LB/GAL: 0.1 WT%: 0.4

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable
N.E. – Not Established
N.D. – Not Determined
VOC – Volatile Organic Compound
PEL – Permissible Exposure Limit
TLV – Threshold Limit Value
STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50
F – Degree Fahrenheit
MSDS – Material Safety Data Sheet

ACGIH – American Conference of Governmental Industrial Hygienists
SARA – Superfund Amendments and Reauthorization Act of 1986
NJRTK – New Jersey Right-to-Know Law
OSHA – Occupational Safety and Health Administration
HMIS – Hazardous Materials Identification System
NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit
LC50 – Lethal Concentration 50
C – Degree Celsius
CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

SPRAYTEX, Inc.

Material Safety Data Sheet

(Complies with ANSI Z400.1-1998)

Product Name:	Knockdown Drywall Repair Spray Texture *(#2022 - 10.0 oz.) (#2023 - 20.0 oz.) (#6622 - 5.0 oz.)*	**MSDS #** **SPR009-PR822**
Product Code:	SPR34609, SPR34610, SPR34613	Revised: 10/17/05

Section 1: Chemical Product and Company Identification

Product Name: Knockdown Drywall Repair Spray Texture
(#2022 - 10.0 oz.) (#2023 - 20.0 oz.) (#6622 - 5.0 oz.)

Product Code: SPR34609, SPR34610, SPR34613

Product Class: Aerosol Wall Texture

For further information contact:

Spraytex, Inc.
28430 West Witherspoon Parkway
Valencia, CA 91355

Mon-Fri Telephone: 1 800 234 5979 8 am to 5 pm PT
Fax: 1 661 257 8780
Web Site: www.spraytex.com

For Chemical Emergencies:

Spill, Leak, Fire or Accident
Call CHEMTREC

Telephone: 1 800 424 9300 North America
1 703 527 3886 Others

Section 2: Composition and Information on Ingredients

Hazardous Components:	*CAS #*	*Vapor Pressure*	*Weight %*	*ACGIH TLV TWA*	*ACGIH TLV STEL*	*OSHA PEL TWA*	*OSHA PEL STEL*	*Units*
Dimethyl Ether	115-10-6	*62 psig @ 70 °F*	≤15	1000		1000		*ppm*
Calcium Carbonate Solution	471-34-1	*N/A*	≤47	NE		NE		*ppm*
Aqueous Ammonia	7664-41-7	*720 mmHg @ 80°F*	<0.5	25	35	50		*ppm*

NE = not established for this material.
** = Components marked with double asterisk are present above De minimus cut off level and subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Section 3: Hazard Identification

Emergency Overview: ***Warning: Contents under pressure. Container may burst if heated***. Do not place in hot water, or near radiators, stoves or other sources of heat. Do not puncture or incinerate container or store at temperature over 120 °F. Do not use in presence of open flame or spark or other sources of ignition. KEEP OUT OF REACH OF CHILDREN. Avoid getting into eyes. Use only as directed. ***Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.***

Potential Health Effects:

Eye contact:	Contact may cause mild eye irritation including stinging, watering, and redness.
Skin contact:	Practically non-irritating to skin. Prolonged or repeated contact may result in deffating and drying to the skin which may result in skin irritation and dermatitis.
Inhalation:	Contains asphyxiant gases. Intentional inhalation of gases may cause headache, fatigue, weakness, mental confusion, mood disturbances, and decreased coordination and judgment. Severe overexposure may produce more serious symptoms, including coma and death.
Ingestion:	No harmful or chronic effects are expected to occur from a single accidental ingestion. Intentional and continuous ingestion can cause serious effects on liver and kidney. Contains denatured alcohol.
Chronic Effects:	None when used as directed.

Product Name:	Knockdown Drywall Repair Spray Texture *(#2022 - 10.0 oz.) (#2023 - 20.0 oz.) (#6622 - 5.0 oz.)*	**MSDS #** **SPR009-PR822** Revised: 10/17/05
Product Code:	SPR34609, SPR34610, SPR34613	

Section 4. First Aid Measures

Eye:	Flush or rinse eye with tempered water while holding eyelid open. Remove contact lenses, if worn. If irritation or redness persists seek medical attention.
Skin:	Clean affected area(s) thoroughly by washing with mild soap and water, pat dry. If irritation or redness develops and persists, seek medical attention.
Inhalation:	If breathing difficulties develop, move victim away from source of exposure and into fresh air, give oxygen as necessary. Seek immediate medical attention.
Ingestion:	DO NOT induce vomiting. Have a conscious person drink two glasses of water. Seek medical attention.

Section 5. Fire Fighting Measures

Flammability Classification:	***Non-flammable pursuant to CFR 16, Ch II Subchapter C, part 1500.45.***
Aerosol Level	***Aerosol Level 1*** (REF: to NFPA 30B, Section 1-7 of August 6, 1998). *Code for the Manufacture and Storage of Aerosol Products.*
Unusual Fire & Explosion Hazards:	Aerosols may burst at temperatures above 120 °F. Contents under pressure. Cool uninvolved containers to prevent possible bursting.
Extinguishing Media:	Use extinguishing agent suitable for type of surrounding fire.
Fire Fighting Instructions:	The use of self-contained breathing apparatus is recommended for fire fighters. ***Fight fire upwind***. Containers exposed to intense heat from fires must be cooled with water to prevent vapor pressure buildup which could result in container rupture. Keep containers cooled with water and remove them from danger if it can be done with minimal risk. Aerosols can be projectiles when bursting. If aerosols are bursting, stay clear until bursting is complete.

Section 6. Accidental Release Measures

Large Spills:
Keep sources of ignition and hot metal surfaces isolated from spill. Stay upwind and away form spill/release. Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Water may be useful in minimizing or dispersing vapors. Keep out of water supplies.

Section 7. Handling and Storage

Handling:	Contents under pressure. Handle as to avoid puncturing container(s). When used as intended, no additional protective equipment is necessary. Use chemical goggles if likelihood of eye contact. Wash unintentional residue with soap and water.
Storage:	Store aerosol containers in cool, dry, well-ventilated areas away from heat and direct sunlight. Avoid temperatures above 120 °F. Keep away from any incompatible material (see section 10). Protect container(s) against physical damage. To avoid unintentional spraying keep protective cap in place when not in use.

Section 8. Exposure Controls / Personal Protection

Engineering Controls:	A well ventilated room with adequate air circulation. Use local and general exhaust ventilation to effectively remove and prevent buildup of vapors/mist generated from the handling of this product.
Respiratory:	If used with adequate ventilation, no protective equipment is necessary.
Skin:	Not required based on the hazard of the material.
Eye/Face:	While contact with this material is not expected to cause appreciable irritation, the use of approved eye protection to safeguard against potential eye contact is considered good practice.
Other Protective Equipment:	A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Section 9. Physical and Chemical Properties

Concentrate Only:		***Finish Product:***	
Appearance:	Off white thick paste	*Vapor Pressure:*	65 - 75 psig @ 70 °F
Boiling Range:	> 100 °F (38 °C)		
Flash Point:	Not Applicable		
Specific Gravity:	1.650 (water=1)		
pH:	Not Applicable		
Weight per Gallon:	13.75 #/gal		
Solubility (water):	soluble		

Section 10. Stability and Reactivity

Chemical Stability:	Stable under normal conditions of storage and handling.
Conditions to Avoid:	High temperatures, above 120 °F, open flames and sparks.
Incompatible Materials	Avoid contact with strong oxidizing and reducing agents. Strong acids and bases. (Household Ammonia, Drain Openers etc.)
Hazardous Decomposition Products:	Combustion may produce carbon monoxide, carbon dioxide and other unidentified organic compounds.
Hazardous Polymerization:	Will not occur.

Section 11. Toxicological Information

No definitive information found on carcinogenicity, mutagenicity, target organs or developmental toxicity.

Section 12. Ecological Information

Not found

Section 13. Disposal Considerations

Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Product Name:	Knockdown Drywall Repair Spray Texture *(#2022 - 10.0 oz.) (#2023 - 20.0 oz.) (#6622 - 5.0 oz.)*	**MSDS #** **SPR009-PR822**
Product Code:	SPR34609, SPR34610, SPR34613	Revised: 10/17/05

Section VI. Transportation Information

1. DOT (Ground)

Shipping Name:	Consumer Commodity
Hazard Class:	ORM-D

2. IMDG (Overseas)

Shipping Name:	Aerosols
Class:	2
UN No.:	1950

3. IATA (Air)

Shipping Name:	Consumer Commodity
Class:	9
ID No.:	ID8000
Label:	Miscellaneous Dangerous Goods Class 9
Packaging Instructions:	910

Section VII. Regulatory Information

Toxic Chemicals List under SARA Section 313 of the Title III and 40 CFR Part 372.

None

Chemicals under California Proposition 65

None

Flammability Classification 16 CFR, Ch II Subch. C, Part 1500.45

Non Flammable

Code of Manufacture and Storage of Aerosol Products NFPA 30B

Aerosol Level 1

Section VIII. Preparation Information

Issue Date:	07/02/03
Revised:	10/17/05
Product Code:	SPR34609, SPR34610, SPR34613

Section IX. Disclaimer of Expressed and Implied Warranties

The information in this document is believed to be correct as of the date issued. ***HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.*** This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

Fiche signalétique

An RPM Company

24 heures – Numéros de téléphone en cas d'urgence:
Urgence médicale/ Empoisonner le Contrôle:
1-800-327-3874
1-513-558-5111
Urgence transport/Centre national de Réponse:
1-800-535-5053
1-352-323-3500

NOTE: Les numéros de téléphone en cas d'urgence doivent être utilisés uniquement lors de déversement, de fuite, d'incendie, d'exposition ou d'accident impliquant des produits chimiques.

IMPORTANT: Lire attentivement cette fiche signalétique avant de manipuler ou de disposer de ce produit. Remettre ces informations aux employés, clients et utilisateurs de ce produit. Ce produit est régit sous la gouverne de l'OSHA, Communication de renseignements à l'égard de matières dangereuses, et ce document a été préparé pour répondre aux exigences de ces standards. Les significations pour toutes les abréviations utilisées dans cette fiche signalétique sont décrites à la Section 16.

Section 1 – Identification du produit et de la compagnie

This MSDS is offered in English upon request.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Nom du produit:	DAP® DRYDEX® SPACKLING (RTU) SERRE LE TUBE	**Date de révision:**	10/09/2007
Numéro UPC:	070798123342, 070798123366, 070798123410, 070798123465	**Date d'abrogation:**	05/17/2007
Utilisation du produit/Classe:	Prêt à Utiliser la Réparation de Spackle/Panneau MURAL	**Numéro de fiche:**	00010421001
Fabricant:	**DAP Inc.** **2400 Boston Street Suite 200** **Baltimore, MD 21224-4723** **888-327-8477 (Pour toute information non urgente)**		

Section 2 - Identification des dangers

Urgences générales: Un produit rose de pâte avec une odeur insignifiante. AVERTISSEMENT ! Peut causer une irritation des yeux, de la peau, du nez, de la gorge et des voies respiratoires. L'enlèvement de ce produit après usage ou lors de ponçage à sec générera de la poussière. L'exposition à cette poussière peut causer une irritation des yeux, des oreilles, du nez et de la bouche. Nocif par inhalation et par ingestion. Lors de ponçage à sec, une exposition à la poussière peut causer une accumulation de matériau dans les yeux, les oreilles, le nez et la bouche. Ce produit contient du glycol d'éthylène.

Consulter les autres sections de cette fiche signalétique pour des informations plus détaillées.

Effets de surexposition – Contact oculaire: Le contact direct avec les yeux peut provoquer une irritation.

Effets de surexposition – Contact cutané: Peut causer une irritation de la peau. Peut causer un assèchement de la peau.

Effets de surexposition – Inhalation: L'inhalation de ce produit peut provoquer l'irritation des voies respiratoires (nez, bouche, muqueuses). L'inhalation de poussière peut causer des dommages du poumon ou les effets autres, défavorables, pulmonaires et respiratoires.

Effets de surexposition – Ingestion: L'ingestion peut provoquer une irritation de l'appareil digestif, des nausées, des vomissements et des diarrhées.

Effets de surexposition – Dangers chroniques:

L'Agence Internationale pour la Recherche sur le Cancer (IARC) a déterminé cette silice cristalline sous forme de quartz ou cristobalite qui est inhalé des sources de métier est cancérogène aux humains (Groupe 1- cancérogène aux humains). Se référer à la Monographie de IARC 68, la Silice, Quelques Silicates et Quelques Fibres Organiques (a publié en juin 1997) conjointement avec l'usage de ces matériels. Le Programme National de Toxicologie (NTP) classifie respirable la silice cristalline comme " connu pour être une substance cancérogène humaine ". Se référer au neuvième Rapport sur les Substances Cancérogènes (2000). La Conférence Américaine d'Hygiénistes Industriels Gouvernementaux (ACGIH) classifie la silice cristalline, le quartz, comme une substance cancérogène humaine présumée (le Groupe A2). Respirer de la poussière contenant de la silice cristalline peut ne pas causer de lésions ni de maladies apparentes même si des lésions permanentes aux poumons sont survenues. L'inhalation de poussière peut avoir des conséquences chroniques très sérieuses pour la santé : L'inhalation excessive de poussière respirable peut causer une pneumoconiose, une maladie respiratoire qui peut dégénérer sur un certain temps en incapacité progressive et quelques fois en lésions des poumons qui peut être mortelle. Les symptômes incluent : toux, respiration courte, sifflements, maladie de poitrine indéterminée et une réduction de la capacité pulmonaire. Fumer peut causer une accélération brutale de cette maladie. Les personnes atteintes de pneumoconiose sont prédisposées pour développer la tuberculose. Il y a plusieurs évidences démontrant que respirer de la silice cristalline ou la silicose est associée à une incidence accrue de maladies extrêmes significatives tel que le syndrome d'Erasmus (un désordre du système immunitaire manifeste causé par une fibrose des poumons, de la peau et de d'autres organes internes) et une maladie des reins.

Une exposition excessive et répétée à l'éthylène glycol peut causer des lésions aux reins et au foie. Les études en laboratoire menées sur des animaux ont démontré que l'inhalation répétée d'éthylène glycol cause des changements néfastes du système cardiovasculaire. Lors d'études en laboratoire sur les animaux, il a été démontré que l'éthylène glycol cause des anomalies congénitales.

Voie(s) d'absorption: Peau le Contact, Inhalation, Oeil le Contact

Problèmes médicaux aggravés lors d'exposition au produit: Lors de ponçage à sec, la condition des personnes atteintes d'asthme ou de symptômes semblables à l'asthme peut s'aggraver en cas d'exposition excessive et répétée à la poussière.

Effets cancérigènes:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP
14808-60-7	Silice cristalline	Présumée cancérogène humaine.	Pas Enuméré.	Cancérogène humaine.	Cancérogène connue.

Section 3 - Composition / Ingrédients dangereux

Chemical Name	CASRN	Wt%
Pierre à chaux	1317-65-3	60-100
Éthylène glycol	107-21-1	0.5-1.5
Magnesium aluminum silicate	12174-11-7	0.5-1.5
Silice cristalline	14808-60-7	0.1-1.0

Section 4 - Premiers soins

Premiers soins – Contact oculaire: En cas de contact avec les yeux, rincer abondamment avec de l'eau pendant au moins 15 minutes. Obtenir des soins médicaux immédiatement.

Premiers soins – Contact cutané: Laver immédiatement et abondamment avec de l'eau et du savon.

Premiers soins – Inhalation: En cas d'inhalation, amener la personne à l'air frais. Si la personne ne respire plus, appliquer la respiration artificielle. Si la personne a de la difficulté à respirer, donner de l'oxygène. Obtenir des soins médicaux immédiatement.

Premiers soins – Ingestion: Appeler immédiatement un médecin ou un Centre AntiPoison. Ne pas faire vomir.

Note au médecin: Aucun.

COMMENTAIRES: En cas d'apparition d'une irritation ou de complications suite à une exposition au produit, communiquer immédiatement avec l'urgence médicale au 1-800-327-3874.

Section 5 - Mesures de protection en cas d'incendie

Moyens d'extinction: Dioxyde de carbone, Sécher Chimique, Mousse, Arroser le Brouillard

Risques particuliers d'explosions ou d'ignition: Aucune connue.

Procédures spéciales de lutte contre les incendies: Utiliser une lance-brouillard afin de refroidir les contenants exposés au feu.

Section 6 - Mesures en cas de déversement accidentel

Procédures de nettoyage: Porter un équipement de protection personnel approprié tel que spécifié à la Section 8. Gratter le matériau sec puis déposer dans un contenant.

Section 7 - Manutention et entreposage

Manutention: TENIR HORS DE LA PORTÉE DES ENFANTS! Eviter le contact avec la peau et les yeux. Ne pas respirer la poussière. Pendant que sécher sanding, of a d'usage masque de poussière NIOSH-APPROUVE est recommandé. L'enlèvement de ce produit générera de la poussière. Lors de ponçage à sec, l'exposition à cette poussière produit une accumulation de matériau dans les yeux, les oreilles, le nez et la bouche et peut causer une irritation. Éviter la chaleur et la manipulation excessive. Laver vigoureusement après la manipulation.

Entreposage: Éviter la chaleur excessive ou le froid excessif. Ne pas entreposer à des températures supérieures à 120º F (48,8º C). Conserver hermétiquement fermé. Entreposer loin des produits caustiques et des agents oxydants.

Section 8 - Contrôles d'exposition / Protection personnelle

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Pierre à chaux	1317-65-3	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	Non
Éthylène glycol	107-21-1	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	Non
Magnesium aluminum silicate	12174-11-7	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	Non
Silice cristalline	14808-60-7	0.05 MGM3	N.E.	N.E.	10/(%SiO2 + 2) MGM3	N.E.	N.E.	Non

Notes concernant l'exposition:

14808-60-7 La liste des valeurs d'exposition moyennes pondérées (VEMP) 2001 émise par l'ACGIH, section «Threshold Limit Values for Chemical Substances and Physical Agents» indique que la silice cristalline, en terme de particule aérodynamique, possède un diamètre de 4.0 microns.

La limite volatile tolérable pour la silice cristalline représente la fraction respirable.

La limite d'exposition permise et la limite volatile tolérable pour la silice cristalline, quartz, sont calculées par l'OSHA à partir de la formule suivante : 10 mg/m3/(% SiO2 + 2). Les deux, la concentration et le pourcentage de quartz pour l'application de ces limites, doivent être déterminées par le pourcentage de silice cristalline non capté lors du passage des particules en suspension dans un capteur-sélecteur de micro-organismes ayant les caractéristiques suivantes :

|----------|----------|
| .. Diamètre aérodynamique (sphère de densité égale à l'unité) .| Pourcentage non capté |
|.....| par un capteur-sélecteur |

	de micro-organisme
2	90
2.5	75
3.5	50
5.0	25
10	0

Mesures de précaution: S'il vous plaît se référer aux autres sections et aux autres sous -sections de ce MSDS.

Contrôles d'ingénierie: Une ventilation locale près de la source d'émission peut être nécessaire pour maintenir la concentration ambiante au-dessous des niveaux limites recommandés. Empêcher l'accumulation de poussière et les vapeurs en ouvrant fenêtres et les portes ou utilise d'autres moyens pour assurer de l'entrée d'air fraîche pendant l'application, séchant et sanding. Un ponçage humide est recommandé afin d'éviter de générer de la poussière.

Protection des voies respiratoires: Si la concentration dépasse les niveaux limites spécifiés, il est recommandé d'utiliser un respirateur à adduction d'air pur agréé par NIOSH. Lorsque la concentration dépasse le facteur de protection de ce type de respirateur, il peut être nécessaire d'utiliser un appareil respirateur autonome. Un programme de protection respiratoire défini selon les normes de l'OSHA 1910.134 et de l'ANSI Z88.2 doit être appliqué à chaque fois que les conditions sur les lieux de travail exigent de porter un respirateur. Lors de ponçage à sec, porter un respirateur approuvé NIOSH/OSHA.
Le National Institute for Occupational Safety and Health (NIOSH) recommande que la limite d'exposition permise pour la silice en suspension soit abaissée à 50 microgrammes par mètre cube d'air (0,05 mg/m3) tel que déterminé lors de périodes de travail complètes pouvant aller jusqu'à 10 heures.

Protection de la peau: En cas d'utilisation excessive et répétée, porter des gants.

Protection des yeux: lunettes de sécurité avec protections latérales

Équipements de protection additionnels: inutile dans les conditions normales d'utilisation.

Pratiques hygiéniques: Enlever et laver les vêtements contaminés avant réutilisation.

Important: Les limites d'exposition permises (LEP) décrites proviennent du Department of Labor des États-Unis, règlement final concernant les valeurs d'exposition moyennes pondérées de l'OSHA
(CFR 29 1910.1000); ces limites peuvent varier selon les états.

Note: Prendre tous les moyens selon les circonstances afin de prévenir ou réduire toute exposition de la peau des employés aux substances portant la mention «OUI» dans la colonne «PEAU» du tableau ci-dessus. Utiliser des gants, une combinaison, des lunettes étanches, tout autre équipement de protection personnel adéquat, les contrôles techniques et les pratiques appropriées au type de travail.

Section 9 - Propriétés physiques et chimiques

Point d'ébullition:	Pas Etabli.	**Densité de vapeur:**	Plus lourd Qu'Aérer
Odeur:	Insignifiant	**Limite de détection olfactive:**	Pas Etabli.
Apparence:	Pink	**Taux d'évaporation:**	Plus lent Que Acétate de n-Butyl
Solubilité dans l'eau (H_2O):	Pas Etabli.	**Poids spécifique:**	1.9
Point de congélation:	Pas Etabli.	**Taux de pH:**	Entre 7,0 et 12,9
Pression de vapeur:	Pas Etabli.	**Viscosité:**	Pas Etabli.
État physique:	Pâte	**Inflammabilité:**	Ininflammable
Point d'éclair, ° F:	Plus grand que 200 degrés	**Méthode:**	(Seta A Fermé la Tasse)
Limite d'explosibilité inférieure, %:	Pas Etabli.	**Limite d'explosibilité supérieure, %:**	Pas Etabli.

Quand rapporté, la pression de vapeur de ce produit a été basé son maquillage de constituant théoriquement calculée et n'a pas été expérimentalement.

(Consulter la Section 16 pour connaître la signification des abréviations)

Section 10 - Stabilité et réactivité

Conditions à éviter: Chaleur excessive ou froid excessif.

Incompatibilité: des oxydants forts des bases fortes

Produits de décomposition dangereux: Produits de décomposition habituels : oxydes de carbone (COx) et oxydes d'azote (NOx).

Risque de polymérisation: Aucune polymérisation dangereuse ne surviendra dans des conditions normales d'utilisation.

Stabilité: Stable dans des conditions normales

Section 11 - Propriétés toxicologiques

Produit DL50: Pas Etabli. **Produit CL50:** Pas Etabli.

CASRN	Chemical Name	LD50	LC50
107-21-1	Éthylène glycol	Rat:4700 mg/kg	Rat:10876 mg/kg

Données significatives possiblement pertinentes à l'humain: Aucun.

Section 12 - Information écologique

Information écologique: Aucune dégradation de l'environnement n'est connue ou prévisible dans les conditions normales d'utilisation.

Section 13 - Information sur la mise au rebut

Information concernant la mise au rebut: Disposer de ce matériau en respectant les lois fédérales, provinciales et municipales. Les lois et restrictions provinciales et municipales sont complexes et peuvent différer des lois fédérales. La responsabilité de la disposition appropriée des déchets appartient au propriétaire des déchets.

Code de mise au rebut de l'Agence de protection de l'environnement (40 CFR Section 261): Aucun

Section 14 - Étiquetage selon le Ministère des Transports

Nom du produit expédié: Pas Réglé.
Nom technique: Pas Applicable
Classe de danger: Pas Applicable
Groupe d'emballage: Pas Applicable
Classe de transport: Pas Applicable
Numéro UN/NA: Pas Applicable

Note : L'information d'expédition fournie est applicable pour le transport de sol domestique seulement. La catégorisation différente peut s'appliquer si expédié via les autres modes de et/ou de transport aux destinations non résidentielles.

Section 15 - Information sur les règlements

CERCLA - Catégories de dangers selon le SARA:

Ce produit a été revu en conformité avec les «Catégories de dangers» établies par l'Agence de protection de l'environnement et promulguées aux Sections 311 et 312 du Superfund Amendment and Reauthorization Act de 1986 (SARA Titre III). Selon les définitions applicables, il est considéré répondre aux catégories suivantes:

RISQUE DE SANTE IMMEDIAT, RISQUE DE SANTE CHRONIQUE

SARA Section 313:

Ce produit contient les substances suivantes assujetties aux normes de déclaration de la Section 313, du Titre III de la Superfund Amendments and Reauthorization Act de 1986 et du 40 CFR partie 372:

Aucun

LOI SUR LE CONTRÔLE DES SUBSTANCES TOXIQUES:

Tous ingrédients dans ce produit sont ou sur la liste d'inventaire de TSCA, ou autrement exempter.

Ce produit contient les substances chimiques suivantes à déclarer selon les normes TSCA 12(B) si exporté à l'extérieur des États-Unis:

Aucun

New Jersey Right-to-Know:

Les substances suivantes sont non-dangereuses mais sont comptées parmi les 5 principaux ingrédients composant ce produit:

Chemical Name	CAS Number
Eau	7732-18-5

Pennsylvania Right-to-Know:

Les substances suivantes sont non-dangereuses mais sont présentes à plus de 3% dans ce produit:

Chemical Name	CAS Number
Eau	7732-18-5

Proposition 65 de Californie:

AVERTISSEMENT : Ce produit contient des produits chimiques connus à l'Etat de Californie pour causer le cancer, des anomalies congénitales ou d'autres problèmes reliés à la reproduction.

Section 16 - Autres informations

HMIS Classification des dangers:			
Santé: 1	Inflammabilité: 0	Réactivité: 0	Protection personnelle: X

COMPOSÉ ORGANIQUE VOLATIL (VOC), moins d'eau exempte moins: G/LITRE: 39.8 LB/GALLON: 0.3 POIDS : POIDS %: 1.2

COMPOSÉ ORGANIQUE VOLATIL (VOC), moins d'eau exempte moins, moins LVP-VOCs: POIDS : POIDS %: 0.3

RAISONS DE RÉVISION: Mise à jour périodique

Légende:

N.A. – Non applicable

N.É. – Non établi

N.D. – Non déterminé

OSHA – Occupational Safety and Health Administration

LD50 – Dose létale 50

LC50 – Concentration létale 50

NJRTK – New Jersey Right-to-Know Law

VOC – Composé organique volatil

HMIS – Hazardous Materials Identification System

PEL – Limite d'exposition permise

TWA – Valeur d'exposition moyenne pondérée

TLV – Limite tolérable d'exposition

NTP – National Toxicology Program

F – Degré Fahrenheit

STEL – Limite d'exposition à court terme

C – Degré Celcius

CASRN – Numéro enregistré selon le Chemical Abstracts Service

ACGIH – American Conference of Governmental Industrial Hygienists

SARA – Superfund Amendments and Reauthorization Act de 1986

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

DAP croit que les données et renseignements stipulés dans cette fiche signalétique sont précis à la date de rédaction de cette fiche. Ces données sont offertes en toute bonne foi et représente des valeurs standard sans toutefois être des spécifications du produit. **AUCUNE GARANTIE SUR LA QUALITÉ MARCHANDE, GARANTIE D'APTITUDE POUR AUCUN TYPE D'EMPLOI PARTICULIER OU TOUTE AUTRE FORME DE GARANTIE N'EST EXPRESSÉMENT OU IMPLICITEMENT OFFERTE EN REGARD DES INFORMATIONS FOURNIES DANS CETTE FICHE OU DES INFORMATIONS RELATIVES AU PRODUIT.** Cette fiche est produite uniquement à titre de guide pour les personnes formées à cet effet afin qu'elles puissent appliquer les procédures appropriées de manutention auxquelles le produit réfère. Toutefois, c'est la responsabilité chaque utilisateur de revoir les recommandations selon le contexte spécifique de l'utilisation prévue et de déterminer si ces procédures sont appropriées.

< Fin de la fiche signalétique >

Material Safety Data Sheet

The General Graphic Company
2525 Mandela Parkway
Oakland, California 94607
Business/Emergency Phone Number: (510)832-4404

Prepared: 11-21-96 Updated 12-03

I Product Identification

Generic ID: Adhesive
Chemical Family Name: Polyvinyl Acetate Emulsion
Trade Name: **Padding Adhesive**

II Hazardous Components

Ingredient	CAS Number	WT%	TLV(ppm)
PVAc	9003-20-7	45-55%	n/a

III Physical Data

Boiling Point: 212° F
Specific Gravity (HOH = 1): 1.12
Vapor Density (Air = 1): .98
Percent Volatile (wt. %, water): 45%
Evaporation Rate (HOH = 1): 1
Typical Viscosity (cps): 1500-2000
Solubility in Water: Dispersable
pH: 5.0-6.0
Volatile Organic Content (VOC): 4 g/l

IV Fire & Explosion Data

Flash Point (TCC): NONE Flammable Limits: n/a
Extinguishing Media: Water
Special Fire Fighting Procedures: MESA/NIOSH self contained

V Health Hazard Data

Effects of Overexposure

TLV not established

First Aid

Flush eyes or skin with warm water.

VI Reactivity Data

Stability: Stable
Conditions to Avoid: Keep from freezing.
Incompatibility (Avoid Contact With): Acids or Alkalis.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Product: None

VII Spill or Leak Procedures

Spill Procedures: Use absorbant or coagulate with borax.
Waste Disposal: Consult Federal, State and Local disposal authorities for approved disposal procedures.

VIII Special Protection & Precautions

Respiratory Protection: Wear suitable NIOSH/MSHA respirator where exposure limits may be exceeded.
Ventilation: Local Exhaust
Protective Gloves: Rubber.
Eye Protection: Goggles

Comments: Avoid freezing or extremely high temperatures.

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Body Seam Tape

Product Code(s): 4130, 4132, 4136

Manufacturer/Supplier: TRANSTAR AUTOBODY TECHNOLOGIES
2040 Heiserman Dr.
Brighton, MI, 48114, USA

24 Hour Emergency Phone(s): 800-424-9300 (CHEMTREC), 613-996-6666 (CANUTEC)

Business Phone: 810-220-3000

Product Use: Sealant

MSDS Prepared By: V. Burgess Byrd

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% by Weight
2-Ethylhexyl Acrylate	103-11-7	65- 80%
Acrylic Acid, Glacial	79-10-7	5 - 10%
n-Vinyl Pyrollidone	88-12-0	0 - 5%
Isobornyl Acrylate	5888-33-5	0 - 5%

See Section 15. Regulatory Information for code descriptions
Weight percent (%) of 0.0 means chemical is in trace amounts.

---

3. HAZARDS IDENTIFICATION

CAUTION! COMBUSTIBLE

HMIS Hazard Ratings: Health =0 , Flammability =1, Chemical Reactivity =0

Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Potential Health Effects

Eyes: Minimal to slight irritation to the eyes. Exposure can cause redness and itching.

Skin: Slight irritation to the skin.

Inhalation: Minimal to slight irritation to the respiratory system.

Ingestion: Slight irritation to the digestive tract.

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4. FIRST AID MEASURES

Seek professional medical attention for all over-exposures and/or persistent problems.

Eyes Contact: Flush eyes with clean water for a minimum of 15 minutes. Seek medical attention.

Skin Contact: Wash exposed area thoroughly with soap and water.

Inhalation: Remove person from area to fresh air. If breathing difficulty persists, seek medical attention.

Ingestion: DO NOT INDUCE VOMITTING. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: >200 Deg F, 93 Deg CMethod: TCC
Upper Explosive Limit (UEL): n/a
Lower Explosive Limit (LEL): n/a
Autoignition Temperature: No data

Extinguishing Media: Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog, Other.

Special Firefighting Procedures: Full fire fighter equipment including SCBA should be worn to avoid skin contact and inhalation of concentrated vapors. Minimize skin exposure. Highly toxic fumes may be generated by thermal decomposition.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, oxides of nitrogen.

Unusual Fire and Explosion Hazards: Vapors can travel to a source of ignition and flash back. Closed containers may explode when exposed to extreme heat or burst when contaminated with water (CO2 gas evolved). Hazards apply to empty containers. Combustion generates toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

For large spills or transportation accidents involving release of this product, contact the Emergency Response Center: 800-424-9300.

Eliminate all sources of ignition, provide adequate ventilation, dike spill area and add absorbent earth or sawdust to spilled liquid. Sweep up and dispose of in appropriate containers in accordance with Federal, State and/or Local regulations.

7. HANDLING AND STORAGE

Use non-sparking tools when handling this material. Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool area away from heat and flames. Do not reuse container when empty.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name/Exposure Limits	CAS Number
2-Ethylhexyl Acrylate (OSHA PEL: 5 mg/m3)	103-11-7
Acrylic Acid, Glacial (OSHA PEL: 10 ppm)	79-10-7
n-Vinyl Pyrollidone (OSHA PEL: Not Est, ACGIH TLV: Not Est, OTHER: Not Est)	88-12-0
Isobornyl Acrylate (OSHA PEL: Not Est, ACGIH TLV: Not Est, OTHER: Not Est)	5888-33-5

Engineering Controls: General mechanical ventilation or local exhaust should be utilized to keep vapor concentrations below exposure limits (PEL & TLV). Ventilation equipment must be explosion proof.

Respiratory Protection: Utilize engineering controls to reduce emission levels below the time weighted exposure limits (ACGIH TLV & OSHA PEL). Wear an approved respirator if exposure limits are above the exposure limits listed above.

Eye Protection: Use safety glasses or splash goggles.

Skin Protection: Use chemical resistant gloves.

Safe Work Practices: Eye washes and safety showers in the workplace are recommended. Avoid contact with skin and eyes. Avoid breathing vapors. Wash hands thoroughly after using and before eating, drinking or smoking. Employee education and training in the safe use and handling of this product is required under the OSHA Hazard Communication Standard 29CFR1200. Smoking in area where this material is used should be strictly prohibited. Always use protective clothing and equipment. Remove all contaminated clothing and wash thoroughly when finished working. Keep food and drink away from material and from area where material is being used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Homogeneous mixture
Physical State: Solid
Color: Cloudy, colorless
Odor: Characteristic acylate odor.
Odor Threshold: No Data
Specific Gravity (water=1) 1.00
Vapor Pressure: No data

Vapor Density: N/A
Material VOC: 0.00 lb/gl 0 g/l
Coating VOC: 0.00 lb/gl 0 g/l
Evaporation Rate: N/A
Boiling Point: n/a
Melting Point: No data
Freezing Point: No data
Viscosity at Ambient Temperature: No data
Solubility in Water: Insoluble
Octanol/Water Partition Coefficient: No data
pH: No data

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Strong acids, strong bases and strong oxidizing agents.

Hazardous Polymerization: WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:
ACUTE:
INHALATION - Minimal odor present during normal material handling and use.
EYE CONTACT - Mild irritation, tearing, redness.
SKIN CONTACT - Mild irritation possible.
INGESTION - May cause mild gastrointestinal irritation, vomiting, nausea, & diarrhea.

CHRONIC:
No chronic health effects known.

Acute Toxicity Data: No data.

Carcinogenicity: NTP -No, IARC -No, OSHA -No
This product has not been tested for carcinogenic effects. Some chemicals in this product may be identified by NTP, IARC and/or OSHA as carcinogenic, indicated above as "Yes". No further information available.

Teratology: No data.

Reproduction: No data.

Mutagenicity: No data.

12. ECOLOGICAL INFORMATION

No data.

13. DISPOSAL CONSIDERATIONS

This product when disposed represents a non-hazardous waste, as identified in 40CFR261. It is the responsibility of each waste generator to identify the proper classification of their waste streams.

14. TRANSPORT INFORMATION

The following transportation information is provided based on Transtar Autobody Technologies interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking and labeling prior to offering for transport.

USA (DOT) Status: Not regulated

Water (IMDG) Status: Not regulated

Air (ICAO,IATA) Status: Not regulated

Canada (TDG) Status: Not regulated

15. REGULATORY INFORMATION

The information listed in this section is not all inclusive of all regulations for this product or the chemical components of this product.

US Federal Regulations

TSCA Status: All known major components of this product are listed on the TSCA Inventory and/or are otherwise in compliance with TSCA.

SARA 302 (EHS) Status: No EHS chemicals present.

SARA 311/312 Status: No hazards to Emergency Responders identified.

SARA 313 Status: *** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

OSHA Status: This material meets the requirement of hazardous material and is subject to 29CFR1910.1200.

USA State Information

California Proposition 65: This product does not contain chemical(s) known to the State of California to cause cancer or birth defects or other reproductive harm.

Pennsylvania RtK Status: This material contains chemical(s) subject to notification under Pennsylvania Right to Know.

New Jersey RtK Status: This material contains chemical(s) subject to

notification under New Jersey Right to Know.

Massachusetts RtK Status: This material contains chemical(s) subject to notification under Massachusetts Right to Know.

Rhode Island RtK Status: This material contains chemical(s) subject to notification under Rhode Island Right to Know.

International Regulations

Canada
DSL Status: All known major components of this product are listed on the DSL Inventory and/or are otherwise in compliance with the DSL
WHMIS: E

EINECS Status: All components of this material are listed on the EINECS Inventory.

16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Transtar Autobody Technologies to be accurate. As with all chemicals, KEEP AWAY FROM CHILDREN AND ANIMALS. FOR PROFESSIONAL USE ONLY. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

MATERIAL SAFETY DATA SHEET

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

WL30067

HMIS CODES

Health	1
Flammability	0
Reactivity	0

PRODUCT NAME

WHITE LIGHTNING* 3006* Original Formula All Purpose Adhesive Caulk, Clear

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS CO.
Consumer Group - Industrial
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

03-APR-07

INFORMATION TELEPHONE NO.

(216) 566-2902

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE

No ingredients in this product are hazardous as defined by the Department of Labor.

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
In a confined area vapors in high concentration may cause headache, nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Continued on page 2

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Not Applicable	N.A.	N.A.

FLAMMABILITY CLASSIFICATION
Not Applicable

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY
Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Continued on page 3

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.77 lb/gal 1050 g/l
SPECIFIC GRAVITY	1.06
BOILING POINT	212 - 213 F 100 - 100 C
MELTING POINT	Not Available
VOLATILE VOLUME	51 %
EVAPORATION RATE	Slower than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	8.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

0.26 lb/gal	31 g/l	Less Water and Federally Exempt Solvents
0.13 lb/gal	15 g/l	Emitted VOC

Continued on page 4

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

CAS No.	Ingredient Name

No LC50 or LD50 data available.

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
Not Regulated for Transportation.

Canada (TDG)
Not Regulated for Transportation.

IMO
Not Regulated for Transportation.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

Continued on page 5

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Material Safety Data Sheet - MSDS

Masking Tape

Section 1. Chemical Product and Company Identification

Common Name : **Masking Tape**
Synonym : Not available.
Trade name : DT339.
Manufactured for : L.H. Dottie Company
6131 S. Garfield Avenue
Commerce, California 90040
Tel: (323) 725-1000

Code : DT339
Validation Date : **2004-10-24.**
In Case of Emergency : **(714) 739-1408**

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
Polyethylene	9002-88-4	70-100	**OSHA PEL (United States, 2002). Notes:** TWA: 5 mg/m^3 8 hour(s). Form: Respirable dust TWA: 15 mg/m^3 8 hour(s). Form: Total dust

This material is classified as not hazardous under OSHA regulations. This product is an Article under the United States Hazard Communication System. Therefore it is EXEMPTED from the regulatory requirements under HCS.

See Section 8 for Exposure Limits.
See Section 11 for Toxicological Data.

Section 3. Hazards Identification

Physical State and Appearance : Solid.

Emergency Overview : No specific hazard.
USE WITH CARE.
Follow good industrial hygiene practice.

Routes of Entry : Ingestion.

Potential Acute Health Effects

Eyes : Non-irritating to the eyes.

Skin : Non-irritant for skin. Non-sensitizer for skin.

Inhalation : Not available.

Ingestion : Not available.

Potential Chronic Health Effects : **CARCINOGENIC EFFECTS**: Classified None. by NIOSH [Polyethylene]. Classified 3 (Not classifiable for human.) by IARC [Polyethylene].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: : Repeated or prolonged exposure is not known to aggravate medical condition.

Over-exposure signs/symptoms : Not available.

See Section 11 for Toxicological Data.

Section 4. First Aid Measures

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact : In case of contact, immediately flush skin with plenty of water. Get medical attention.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Notes to Physician : No specific antidote. Medical staff must contact Poison Information Center.

Continued on Next Page

Section 5. Fire Fighting Measures

Flammability of the Product : May be combustible at high temperature.

Auto-ignition Temperature : The lowest known value is >343°C (649.4°F) (Polyethylene).

Flash Points : Not available.

Flammable Limits : Not available.

Products of Combustion : These products are carbon oxides (CO, CO_2).

Fire Hazards in Presence of Various Substances : Non-flammable in presence of heat.

Explosion Hazards in Presence of Various Substances : Risks of explosion of the product in presence of mechanical impact: Not applicable.
Risks of explosion of the product in presence of static discharge: Not applicable.

Fire Fighting Media and Instructions : SMALL FIRE: Use dry chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Protective Clothing (Fire) : Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire Hazards : Not available.

Section 6. Accidental Release Measures

Small Spill and Leak : Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill and Leak : Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Handling : After handling, always wash hands thoroughly with soap and water.

Storage : Keep container in a cool, well-ventilated area. Do not store above 49°C (120.2°F).

Section 8. Exposure Controls, Personal Protection

Engineering Controls : No special ventilation requirements.

Personal Protection

Eyes : Not required.

Body : Not required.

Respiratory : Not applicable.

Hands : Not applicable.

Feet : Not applicable.

Protective Clothing (Pictograms) :

Personal Protection in Case of a Large Spill : None, under normal conditions of uses.

Exposure Limits

Product Name	Exposure Limits
Polyethylene	**OSHA PEL (United States, 2002). Notes:** TWA: 5 mg/m^3 8 hour(s). Form: Respirable dust TWA: 15 mg/m^3 8 hour(s). Form: Total dust

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance : Solid.

Color : Multiple.

Odor : Acrylic. (Slight.)

Molecular Weight : Not applicable.

Molecular Formula : Not applicable.

pH (1% Soln/Water) : Not applicable.

Continued on Next Page

Boiling/Condensation Point : Not available.
Melting/Freezing Point : 130.06 to 145.06°C (266.1 to 293.1°F) based on data for: Polyethylene.
Specific Gravity : 1.1 (Water = 1)
Vapor Pressure : Not available.
Vapor Density : Not available.
Volatility : 0% (v/v).
Odor Threshold : Not available.
Evaporation Rate : Not available.
VOC : 0 (%)
Viscosity : Not available.
$LogK_{ow}$: Not available.
Solubility : Insoluble in cold water, hot water.

Section 10. Stability and Reactivity

Stability and Reactivity : The product is stable.
Conditions of Instability : Not available.
Incompatibility with Various Substances : Not considered to be reactive.
Hazardous Decomposition Products : Not available.
Hazardous Polymerization : Will not occur.

Section 11. Toxicological Information

Chronic Effects on Humans : **CARCINOGENIC EFFECTS**: Classified None. by NIOSH [Polyethylene]. Classified 3 (Not classifiable for human.) by IARC [Polyethylene].
Other Toxic Effects on Humans : Non-irritant for skin. Non-sensitizer for skin. Non-irritating to the eyes.
Special Remarks on Toxicity to Animals : Not available.
Special Remarks on Chronic Effects on Humans : Not available.
Special Remarks on Other Toxic Effects on Humans : Not available.

Section 12. Ecological Information

BOD and COD : Not available.
Biodegradable/OECD : Not available.
Mobility : Not available.
Products of Degradation : These products are carbon oxides (CO, CO_2) and water.
Toxicity of the Products of Biodegradation : The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation : Not available.

Section 13. Disposal Considerations

Waste Information : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

Continued on Next Page

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
United States (DOT)	Not regulated.	-	-	-		-
IMDG Code	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

NAERG : Not applicable.

Section 15. Regulatory Information

HCS Classification : Not controlled under the HCS (United States).

U.S. Federal Regulations : TSCA 8(b) inventory: All components listed.

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

Form R - Reporting Requirements : No products were found.

Supplier Notification : No products were found.

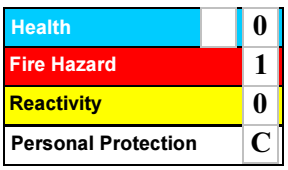
State Regulations :

California prop. 65: No products were found.

Section 16. Other Information

Label Requirements : USE WITH CARE.

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)

References : - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. ANSI Z400.1, MSDS Standard, 2001. -Manufacturer's Material Safety Data Sheet.

Responsible Name : **Kemika XXI Inc. +1-450-435-7475**
Date of printing : **2004-10-28.**
Date of issue : **2004-10-24.**
Date of Previous Issue : **No Previous Validation.**
Version : **1**

Notice to Reader

Continued on Next Page

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name: DAP WELDWOOD Multi-Purpose Floor Covering Adhesive

Product UPC Number: 7079800144, 7079800142, 7079800141, 7079800140, 7079872054, 7079872052, 7079872049

Product Use/Class: Latex Floor Covering Adhesive

Manufacturer:
DAP Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non-emergency matters)

Revision Date: 03/07/2005

Supercedes: 02/17/1999

MSDS Number: 00030807001

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Kaolin	1332-58-7	15-40	2 MGM3	N.E.	N.E.	N.E.	N.E.	N.E.	No
Petroleum hydrocarbon oil	64742-52-5	10-30	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Urea	57-13-6	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Ethylene glycol	107-21-1	1-5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Titanium dioxide	13463-67-7	0.1-1.0	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
4-Vinylcyclohexene	100-40-3	<0.0006	0.1 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	No

Exposure Notes:

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A white to off-white paste with a very slight ammonia odor. WARNING! May cause irritation to the

respiratory tract. Harmful or fatal if swallowed. May cause eye, skin, nose, throat and respiratory tract irritation. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Vapors may be irritating to eyes, nose, throat, and lungs. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system.

Effects Of Overexposure - Ingestion: If ingested, may cause vomiting, diarrhea, and depressed respiration. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

Effects Of Overexposure - Chronic Hazards: Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals. Prolonged or repeated contact with skin results in irritation and dermatitis.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation

Medical Conditions which May be Aggravated by Exposure: None known.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

First Aid - Skin Contact: Wash off with soap and water.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Note to Physician: None.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arise from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: greater than 200 degrees Fahrenheit
Method: (Seta Closed Cup)

Lower Explosive Limit, %: Not Established

Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Unusual Fire And Explosion Hazards: None known.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Wet dried material before scraping up and place into containers.

Section 7 - Handling And Storage

Handling: Do not breathe vapors. Provide fresh air such that chemical odors cannot be detected during use and while drying. Use in well ventilated area. Construction and repair activities can adversely affect indoor air quality. Consult with occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize impact.

Wash thoroughly after handling. Do not sand, dry sweep, dry scrape, drill, saw, beadblast, mechanically chip, pulverize or otherwise machine existing resilient flooring, backing, lining felt, or asphaltic "cut-back" adhesives. These products may contain either asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. See current edition of the Resilient Floor Covering Institute's publication "Recommended Work Practices for Removal of Resilient Floor Coverings", for detailed information and instructions addressed to the task of removing all resilient floor covering materials. Avoid contact with eyes, skin and clothing.

Storage: Store containers away from excessive heat and freezing. Keep containers tightly closed. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Provide sufficient general and/or local exhaust ventilation to maintain exposure below recommended exposure limit. Use only in well-ventilated areas.

Respiratory Protection: A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use is not expected to be necessary under normal conditions of handling. In emergency situations, use of a NIOSH-approved respirator may be required.

Skin Protection: Wear rubber gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: None.

Hygienic Practices: Although this product is not considered an eye irritant, inhalation hazard, or a skin contact hazard under normal conditions, it is advisable that personnel minimize skin contact, inhalation of vapors and eye contact. Remove and wash contaminated clothing before re-use.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Not Established
Odor:	Very Slight Ammonia	**Odor Threshold:**	Not Established
Appearance:	White to Off-White	**Evaporation Rate:**	Not Established
Solubility in H2O:	Not Established	**Specific Gravity:**	1.202
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste		

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under normal conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50	WT%
57-13-6	Urea	Rat:8471 mg/kg	----------	1-5
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg	1-5
100-40-3	4-Vinylcyclohexene	16620 mg/kg	4000 ppm rat	<0.0006

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP	WT%
13463-67-7	Titanium dioxide	-----	-----	Classification not possible from current data.	-----	0.1-1.0
100-40-3	4-Vinylcyclohexene	Confirmed animal carcinogen with unknown relevance to humans.	-----	Possible carcinogen.	-----	<0.0006
14808-60-7	Silica, crystalline	Suspected human carcinogen.	-----	-----	Known carcinogen.	<0.00001

Significant Data with Possible Relevance to Humans: None

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): none

Section 14 - Transportation Information

DOT Proper Shipping Name: None
DOT Technical Name: None
DOT Hazard Class: N.A.
Packing Group: N.A.
Hazard Subclass: N.A.
DOT UN/NA Number: None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number	WT%
Ethylene glycol	107-21-1	1-5

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
5-Chloro-2-methyl-4-isothazoli	26172-55-4
2-Methyl-4-isothiazolin-3-one	2682-20-4

U.S. State Regulations:

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number	WT%
Water	7732-18-5	30-60
Hydrocarbon Petroleum Resin	Proprietary	3-7
Butadiene-styrene copolymer	Proprietary	3-7

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number	WT%
Water	7732-18-5	30-60
Hydrocarbon Petroleum Resin	Proprietary	3-7
Butadiene-styrene copolymer	Proprietary	3-7

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

Chemical Name	CAS Number	Definition	Date Listed	WT%
4-Vinylcyclohexene	100-40-3	Carcinogenic.	Listed: May 1, 1996	<0.0006
Silica, crystalline	14808-60-7	Carcinogenic.	Listed: October 1, 1988	<0.00001

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm:

None.

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 34.3 LB/GAL: 0.3 WT%: 1.557

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable
N.E. – Not Established
N.D. – Not Determined
VOC – Volatile Organic Compound
PEL – Permissible Exposure Limit
TLV – Threshold Limit Value
STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50
F – Degree Fahrenheit
MSDS – Material Safety Data Sheet
ACGIH – American Conference of Governmental Industrial Hygienists
SARA – Superfund Amendments and Reauthorization Act of 1986
NJRTK – New Jersey Right-to-Know Law
OSHA – Occupational Safety and Health Administration
HMIS – Hazardous Materials Identification System
NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit
LC50 – Lethal Concentration 50
C – Degree Celcius
CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

Hoja de datos de la seguridad de los materiales

Números telefónicos de emergencia las 24 horas:
Emergencias médicas: 1-800-327-3874
1-513-558-5111
Transporte:
1-800-535-5053
1-352-323-3500

NOTA: Los números de emergencia del Centro de Respuesta Nacional sólo se deben usar en caso de emergencias químicas que involucren un derramamiento, incendio, exposición o accidente que tengan que ver con químicos

IMPORTANTE: Lea esta hoja de datos de la seguridad de los materiales antes de manipular o desechar este producto, y entregue esta información a los empleados, clientes y usuarios de este producto. Este producto está cubierto por la norma de comunicación de riesgos OSHA, y este documento fue preparado de acuerdo con los requisitos de dicha norma. Todos los términos abreviados utilizados en este documento se describen con más detalles en la sección 16.

Sección 1 - Información del producto químico/ compañía

Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
On peut demander cette MSDS a la langue Francaise Canadienne.

Nombre de producto:	DAP WELDWOOD Multi-Purpose Floor Covering Adhesive	**Fecha de revisión:**	03/07/2005
Número de UPC del producto:	7079800144, 7079800142, 7079800141, 7079800140, 7079872054, 7079872052, 7079872049	**Reemplaza a:**	02/17/1999
Uso/ clase del producto:	Latex Floor Covering Adhesive	**Número de hoja de datos (MSDS):**	00030807001

Fabricante:
DAP Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (asuntos de no emergencia)

Sección 2 - Composición / Información sobre los Ingredientes

Nombre Químico	CASRN	Peso%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Piel
Caolín	1332-58-7	15-40	2 MGM3	N.E.	N.E.	N.E.	N.E.	N.E.	No
Destilados (Petróleo), Fracción Nafténica Pesada Tratada Con Hidrógeno	64742-52-5	10-30	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Carbamida	57-13-6	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Etilen Glicol	107-21-1	1-5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Dioxidodetitanio	13463-67-7	0.1-1.0	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
4-Vinilciclohexeno	100-40-3	<0.0006	0.1 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	No

Notas sobre la exposición:

Importante: Los niveles de exposición permitidos (PEL) señalados son suministrados por el Dept. del Trabajo de EE.UU., Límites de la norma final OSHA (CFR 29 1910.1000); Estos límites pueden variar de estado a estado.

Nota: Se debe evitar o reducir al máximo la exposición de la piel de un empleado a substancias que tengan "SÍ" en la columna "PIEL" en la tabla anterior, según lo permitan las circunstancias mediante el uso de guantes, ropa de protección, gafas de seguridad y otros equipos personales de protección, controles de ingeniería o prácticas de trabajo.

Sección 3 - Identificación de riesgos

Generalidades sobre las emergencias: Un blanco a la pasta de-blanco con un olor muy leve del amoniaco. ¡ADVERTENCIA! Puede causar irritación de las vías respiratorias. Dañino o fatal si se traga. Podría causar irritación de los ojos, piel, nariz, garganta y tracto respiratorio. Este producto contiene glicol de etileno.

Consulte otras secciones de la hoja de datos de seguridad de los materiales para más información detallada.

Efectos de la sobre exposición - Contacto visual: Podría causar irritación a los ojos.

Efectos de la sobre exposición - Contacto de la piel: Podría causar irritación de la piel.

Efectos de la sobre exposición - Inhalación: La inhalación puede causar irritación de las vías respiratorias (nariz, boca, membranas mucosas). Los vapores pueden irritar los ojos, la nariz, la garganta y los pulmones. Las exposiciones prolongadas, repetidas o elevadas pueden causar debilidad y depresión del sistema nervioso central.

Efectos de la sobre exposición - Ingestión: Si se ingiere, podría causar vómito, diarrea y respiración deprimida. La aspiración del material en los pulmones debido al vómito puede causar neumonitis química, lo que podría ser fatal.

Efectos de la sobre exposición - Riesgos crónicos: El glicol de etileno puede causar daño al riñón e hígado con la sobre exposición prolongada y repetida. Los estudios han demostrado que la inhalación repetida al glicol de etileno ha producido cambios cardiovasculares adversos en los animales de laboratorio. Se ha demostrado que el glicol de etileno causa defectos de nacimiento en animales de laboratorio. El contacto prolongado o repetido con la piel resulta en irritación y dermatitis.

Ruta(s) principal de entrada: Piel el Contacto, Pele la Absorción,Aspiración

Condiciones médicas que se pueden agravar a causa de la exposición: Ninguno conocido.

Sección 4 - Medidas de primeros auxilios

Primeros auxilios - Contacto visual: En caso de contacto, enjuague los ojos de inmediato con abundante agua por al menos 15 minutos. Obtenga atención médica de inmediato.

Primeros auxilios - Contacto de la piel: Lavar con agua y jabón.

Primeros auxilios - Inhalación: Si se inhala, salga al aire fresco. Si se dificulta la respiración, abandone el área para obtener aire fresco. Si se experimenta dificultad continua para respirar, busque atención médica de inmediato.

Primeros auxilios - Ingestión: Si se traga, NO PROVOQUE EL VÓMITO. Obtenga atención médica de inmediato.

Nota para el médico: Sin información

COMENTARIOS: Llame para emergencias médicas al 1-800-327-3874 si surgiera cualquier irritación o complicación de cualquiera de las rutas de entrada anteriores.

Sección 5 - Medidas para combatir incendios

Punto de inflamación, F: Más que 200 grados Fahrenheit
Método: (Seta Cerró Copa)

Límite explosivo menor, %: No Establecido

Límite explosivo mayor, %: No Establecido

Medios para extinguir: Bióxido de carbono, Seque Sustancia Química, Espuma

Riesgos inusuales de incendio y explosión: Ninguno conocido.

Procedimientos especiales para combatir incendios: Use un aparato para respiración auto-contenida con demanda de

presión (aprobado por el Instituto NIOSH o equivalente) y equipo completo de protección. Use rociador de agua para enfriar las superficies expuestas.

Sección 6 - Medidas en caso de emisión accidental

Pasos a seguir en el caso de emisión o derramamiento de materiales: Use el equipo de protección correcto según lo especifica la Sección 8. Moje el material seco antes de raspar y coloque en contenedores.

Sección 7 - Manejo y almacenamiento

Manejo: No respire los vapores. Suministre aire fresco de manera que los olores de los químicos no se puedan detectar durante el uso y mientras se seca. Usar en un área bien ventilada. Las actividades de construcción y de reparaciones pueden afectar de manera adversa la calidad del aire en interiores. Consulte con los ocupantes o un representante (es decir, mantenimiento, administrador de construcción, higienista industrial, u oficial de seguridad) para determinar las formas de reducir el impacto.

Lave a fondo después de manipular. No lije, barra en seco, raspe en seco, perfore, asierre, pula, corte mecánicamente, pulverice o una acción similar los revestimientos elásticos existentes, refuerzos, fieltro de forro, o adhesivos asfálticos "cut-back". Estos productos pueden contener ya sea fibras de asbestos o sílice cristalino. Evite crear polvo. La inhalación de este polvo es un riesgo de cáncer y de infección del tracto respiratorio. Consulte la edición actual de la publicación del Instituto Resilient Floor Covering: “Prácticas de trabajo recomendadas para retirar los revestimientos elásticos", para información e instrucciones detalladas para la tarea de retirar todos los materiales de revestimiento elástico. Evite el contacto con los ojos, la piel y la ropa.

Almacenamiento: Almacene los contenedores lejos del calor y congelamiento excesivos. Manténgase el recipiente bien cerrado. Almacene lejos de substancias cáusticas y oxidantes.

Sección 8 - Controles de la exposición/ Protección personal

Medidas de precaución: Refiérase por favor a otras secciones y subdivisiones de este MSDS.

Controles de ingeniería: Ofrezca ventilación de escape general y/o local suficiente para mantener la exposición debajo del límite recomendado. Utilícese solo en zonas bien ventiladas.

Protección respiratoria: Se debe seguir un programa de protección respiratoria que cumpla con los requisitos de OSHA 1910.134 y ANSI Z88.2 cada vez que las condiciones del lugar de trabajo exijan el uso de un respirador. No es de esperar que sea necesario usar un aparato de respiración bajo condiciones normales de manejo. En situaciones de emergencia, puede que se requiera el uso de un aparato de respiración aprobado por el NIOSH.

Protección de la piel: Usar guantes de goma.

Protección de la visión: Gafas de seguridad con protectores laterales.

Otro equipo de protección: Ninguno.

Prácticas higiénicas: No obstante este producto no se considera un irritante para los ojos, riesgo de inhalación o riesgo de contacto con la piel bajo condiciones normales, se recomienda que el personal reduzca el contacto con la piel, la inhalación de vapores y el contacto con los ojos. Quitar y lavar la ropa contaminada antes de reutilizar.

Sección 9 - Propiedades físicas y químicas

Rango de ebullición: No Establecido **Densidad del vapor:** No Establecido

Olor:	Amoniaco muy Leve	**Umbral de olor:**	No Establecido
Aspecto:	Blanco a De-Blanco	**Índice de evaporación:**	No Establecido
Solubilidad en H2O:	No Establecido	**Gravedad específica:**	1.202
Punto de congelamiento:	No Establecido	**pH:**	Entre 7,0 y 12,0
Presión del vapor:	No Establecido	**Viscosidad:**	No Establecido
Estado físico:	Pasta		

(Ver sección 16 para la leyenda de las abreviaturas)

Sección 10 - Estabilidad y reactividad

Condiciones a evitar: Calentamiento y congelamiento excesivos.

Incompatibilidad: agentes oxidantes fuertes bases fuertes

Productos de descomposición peligrosa: Productos de descomposición normal, es decir, COx, NOx.

Polimerización peligrosa: No ocurrirá polimerización peligrosa bajo condiciones normales.

Estabilidad: Estable en condiciones normales

Sección 11 - Información toxicológica

LD50 del producto: No Establecido **LC50 del producto:** No Establecido

CASRN	Nombre Químico	LD50	LC50	Peso%
57-13-6	Carbamida	Rat:8471 mg/kg	----------	1-5
107-21-1	Etilen Glicol	Rat:4700 mg/kg	Rat:10876 mg/kg	1-5
100-40-3	4-Vinilciclohexeno	16620 mg/kg	4000 ppm rat	<0.0006

Carcinogenicidad:

Número CAS	Nombre Químico	ACGIH	OSHA	IARC	NTP	Peso%
13463-67-7	Dioxidodetitanio	-----	-----	Clasificación no posible de datos actuales.	-----	0.1-1.0
100-40-3	4-Vinilciclohexeno	Cancerígeno animal confirmado con la aplicabilidad desconocida a humanos.	-----	Cancerígeno posible.	-----	<0.0006
14808-60-7	Silicecristalina	Cancerígeno humano sospechado.	-----	-----	Cancerígeno conocido.	<0.00001

Datos significativos con posible relevancia para los humanos: Ninguno

Sección 12 - Información ecológica

Información ecológica: No se conocen ni esperan daños ecológicos bajo uso normal.

Sección 13 - Información sobre desechos

Información sobre desechos: Deseche los materiales de acuerdo con todas las normas federales, estatales y locales. Las normas/ restricciones estatales y locales son complejas y pueden diferir de las normas federales. La responsabilidad de eliminar los desechos correctamente recae en el propietario de los desechos.

Código de desechos de EPA en caso de desecho (CFR 40 Sección 261): Ninguno

Sección 14 - Información sobre transporte

Nombre correcto para envío a DOT:	Ninguno	**Grupo de empaque:**	No Aplicable
Nombre técnico para DOT:	Ninguno	**Sub-clase de riesgo:**	No Aplicable
Clase de riesgo para DOT:	No Aplicable	**Número UN/NA para DOT:**	Ninguno

Nota: La información del envío proporcionada es aplicable para el transporte doméstico del suelo sólo. Categorización diferente puede aplicar si enviado vía otros modos del transporte y/o a destino no-domésticos.

Sección 15 - Información reglamentaria

Categoría de riesgo CERCLA - SARA:

Este producto ha sido revisado según las categorías de riesgo de EPA promulgadas según las secciones 311 y 312 de la Ley de enmienda y reautorización de fondos especiales de 1986 (SARA, por sus iniciales en inglés, Título III) y se considera, según las definiciones correspondientes, que cumple con las siguientes categorías:

Sección 313 de la ley SARA:

Este producto contiene las siguientes substancias sujeto a los requisitos de reporte de la sección 313 del título III de la ley SARA de 1986 y 40 CFR parte 372:

Nombre Químico	Número CAS	Peso%
Etilen Glicol	107-21-1	1-5

Ley para el control de substancias tóxicas:

Todos ingredientes en este producto son o en lista de inventario de TSCA, o de otro modo exima.

Este producto contiene las siguientes substancias químicas de acuerdo con los requisitos de reporte de la ley TSCA 12(B) si es exportado desde los Estados Unidos:

Nombre Químico	Número CAS
5-Chloro-2-Methyl-4-Isothazoli	26172-55-4
2-Methyl-4-Isothiazolin-3-One	2682-20-4

Regulaciones estatales de EE.UU.:

Ley del Derecho a saberde New Jersey:

Los siguientes materiales no representan peligro, pero están entre los primeros cinco componentes de este producto:

Nombre Químico	Número CAS	Peso%
Agua	7732-18-5	30-60
Hydrocarbon Petroleum Resin	Propietario	3-7
Copolymer De Estireno De Butadiene	Propietario	3-7

Ley del Derecho a saber de Pennsylvania:

Los siguientes ingredientes no peligrosos están presentes en el producto en una proporción mayor a 3%:

Nombre Químico	Número CAS	Peso%

Aqua	7732-18-5	30-60
Hydrocarbon Petroleum Resin	Propietario	3-7
Copolymer De Estireno De Butadiene	Propietario	3-7

Propuesta 65 de California:

Advertencia: Los siguientes ingredientes presentes en el producto son conocidos para el Estado de California por causar cáncer:

Nombre Químico	Número CAS	Definición	Fecha Listó	Peso%
4-Vinilciclohexeno	100-40-3	Cancerígeno.	Listed: May 1, 1996	<0.0006
Ester Etilico Del Acido 2-Propenoico	140-88-5	Cancerígeno.	Listed: July 1, 1989	<0.0001
Silicecristalina	14808-60-7	Cancerígeno.	Listed: October 1, 1988	<0.00001

Advertencia: Los siguientes ingredientes presentes en el producto son conocidos para el Estado de California por causar defectos de nacimiento u otros daños reproductivos:

Ninguno.

Sección 16 - Otra información

Índices HMIS:

Salud: 1 Inflamabilidad: 1 Reactividad: 0 Protección personal: X

COMPONENTES ORGÁNICOS VOLÁTILES, GR/LTR: 34.3 LB/GAL: 0.3 WT%: 1.557

RAZÓN DE LA REVISIÓN: Periódico Actualiza

Leyenda:

N.A. - No aplica
N.E. - No establecido
N.D. - No determinado
VOC - Componente orgánico volátil
PEL - Límites permitidos de exposición
TLV - Valor del límite umbral
STEL - Límite de exposición a corto plazo
LD50 - Dosis letal 50
HMIS - Sistema de identificación de materiales peligrosos
CASRN - Número de registro de servicios de abstractos químicos
ACGIH - Conferencia Americana de Higienistas Industriales gubernamentales
SARA - Ley Ley de enmienda y reautorización de fondos especiales de 1986 (SARA)
NJRTK - Ley del Derecho a saber de New Jersey
OSHA - Administración de la seguridad y salud ocupacional
C - Grados centígrados
NTP - Programa nacional de toxicología
CEIL - Límite máximo de exposición
LC50 - Concentración letal 50
MSDS - Hoja de datos de la seguridad de los materiales
F - Grados Fahrenheit

DAP cree que los datos y las declaraciones contenidos en el presente son exactos hasta la fecha. Se ofrecen de buena fe como valores típicos y no como las especificaciones del producto. **NO SE OFRECE NINGUNA GARANTÍA DE COMERCIABILIDAD, IDONEIDAD PARA UN PROPÓSITO EN PARTICULAR O CUALQUIER OTRA GARANTÍA, EXPRESA O IMPLÍCITA, CON RESPECTO A LA INFORMACIÓN SUMINISTRADA EN EL PRESENTE O DEL PRODUCTO AL CUAL LA INFORMACIÓN SE REFIERE.** Dado que este documento tiene la intención de ser una guía únicamente para el uso correcto y el manejo preventivo del producto de la referencia por parte de personas correctamente entrenadas, es responsabilidad del usuario (i) revisar las recomendaciones con especial consideración al contexto específico del uso que se pretende y (ii) determinar si son correctas.

<Final de la hoja de datos de la seguridad de los materiales>

Fiche signalétique

24 heures – Numéros de téléphone en cas d'urgence:

Urgence médicale: **1-800-327-3874**
1-513-558-5111

Urgence transport: **1-800-535-5053**
1-352-323-3500

NOTE: Les numéros de téléphone en cas d'urgence doivent être utilisés uniquement lors de déversement, de fuite, d'incendie, d'exposition ou d'accident impliquant des produits chimiques.

IMPORTANT: Lire attentivement cette fiche signalétique avant de manipuler ou de disposer de ce produit. Remettre ces informations aux employés, clients et utilisateurs de ce produit. Ce produit est régit sous la gouverne de l'OSHA, Communication de renseignements à l'égard de matières dangereuses, et ce document a été préparé pour répondre aux exigences de ces standards. Les significations pour toutes les abréviations utilisées dans cette fiche signalétique sont décrites à la Section 16.

Section 1 – Identification du produit et de la compagnie

This MSDS is offered in English upon request.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Nom du produit: DAP WELDWOOD Multi-Purpose Floor Covering Adhesive

Date de révision: 03/07/2005

Numéro UPC: 7079800144, 7079800142, 7079800141, 7079800140, 7079872054, 7079872052, 7079872049

Date d'abrogation: 02/17/1999

Utilisation du produit/Classe: Latex Floor Covering Adhesive

Numéro de fiche: 00030807001

Fabricant:
DAP Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (Pour toute information non urgente)

Section 2 - Composition / Ingrédients dangereux

Nom Chimique	CASRN	Poids%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Peau
Kaolin	1332-58-7	15-40	2 MGM3	N.E.	N.E.	N.E.	N.E.	N.E.	Non
Distillat naphténique lourd hydrotraité	64742-52-5	10-30	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	Non
Urée	57-13-6	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	Non
Éthylène glycol	107-21-1	1-5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	Non
Dioxyde de titane	13463-67-7	0.1-1.0	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	Non
4-Vinylcyclohexne	100-40-3	<0.0006	0.1 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	Non

Notes concernant l'exposition:

Important: Les limites d'exposition permises (LEP) décrites proviennent du Department of Labor des États-Unis, règlement final concernant les valeurs d'exposition moyennes pondérées de l'OSHA
(CFR 29 1910.1000); ces limites peuvent varier selon les états.

Note: Prendre tous les moyens selon les circonstances afin de prévenir ou réduire toute exposition de la peau des employés aux substances portant la mention «OUI» dans la colonne «PEAU» du tableau ci-dessus. Utiliser des gants, une combinaison, des lunettes étanches, tout autre équipement de protection personnel adéquat, les contrôles techniques et les pratiques appropriées au type de travail.

Section 3 – Identification des dangers

Urgences générales: Un blanc à la pâte de-blanc avec une odeur d'ammoniaque très insignifiante. AVERTISSEMENT ! Peut provoquer une irritation des voies respiratoires. Nocif ou mortel si ingéré. Peut causer une irritation des yeux, de la peau, du nez, de la gorge et des voies respiratoires. Ce produit contient du glycol d'éthylène.

Consulter les autres sections de cette fiche signalétique pour des informations plus détaillées.

Effets de surexposition – Contact oculaire: Peut causer une irritation des yeux.

Effets de surexposition – Contact cutané: Peut causer une irritation de la peau.

Effets de surexposition – Inhalation: L'inhalation de ce produit peut provoquer l'irritation des voies respiratoires (nez, bouche, muqueuses). Les vapeurs peuvent être irritantes pour les yeux, le nez, la gorge et les poumons. L'exposition prolongée, ou répétée, ou à de fortes concentrations peut provoquer un affaiblissement et une dépression du système nerveux central.

Effets de surexposition – Ingestion: En cas d'ingestion, peut causer des vomissements, de la diarrhée et une diminution de la capacité pulmonaire. L'aspiration de matériau dans les poumons lors de vomissements peut causer une pneumonie chimique qui peut être mortelle.

Effets de surexposition – Dangers chroniques: Une exposition excessive et répétée à l'éthylène glycol peut causer des lésions aux reins et au foie. Les études en laboratoire menées sur des animaux ont démontré que l'inhalation répétée d'éthylène glycol cause des changements néfastes du système cardiovasculaire. Lors d'études en laboratoire sur les animaux, il a été démontré que l'éthylène glycol cause des anomalies congénitales. Un contact excessif et répété avec la peau peut causer une irritation ou une dermatite.

Voie(s) d'absorption: Peau le Contact, L'Absorption de peau, l'Inhalation

Problèmes médicaux aggravés lors d'exposition au produit : Aucune connue.

Section 4 – Premiers soins

Premiers soins – Contact oculaire: En cas de contact avec les yeux, rincer abondamment avec de l'eau pendant au moins 15 minutes. Obtenir des soins médicaux immédiatement.

Premiers soins – Contact cutané: Laver avec de l'eau et du savon.

Premiers soins – Inhalation: En cas d'inhalation, transporter la personne exposée à l'air frais. Si elle a de la difficulté à respirer, quitter les lieux afin d'obtenir de l'air frais. Si la difficulté à respirer persiste, obtenir des soins médicaux immédiatement.

Premiers soins – Ingestion: En cas d'ingestion, NE PAS FAIRE VOMIR. Obtenir des soins médicaux immédiatement.

Note au médecin: Pas d'information.

COMMENTAIRES: En cas d'apparition d'une irritation ou de complications suite à une exposition au produit, communiquer immédiatement avec l'urgence médicale au 1-800-327-3874.

Section 5 – Mesures de protection en cas d'incendie

Point d'éclair, ° F (° C): Plus grand que 200 degrés Fahrenheit
Méthode: (Seta A Fermé la Tasse)

Limite d'explosibilité inférieure, %: Pas Etabli

Limite d'explosibilité supérieure, %: Pas Etabli

Moyens d'extinction: Dioxyde de carbone, Sécher Chimique, Mousse

Risques particuliers d'explosions ou d'ignition: Aucun connu.

Procédures spéciales de lutte contre les incendies: Porter un respirateur autonome à pression d'air (approuvé NIOSH ou équivalent) et un équipement de protection personnel complet. Utiliser une lance-brouillard afin de refroidir les contenants exposés.

Section 6 – Mesures en cas de déversement accidentel

Procédures de nettoyage: Porter un équipement de protection personnel approprié tel que spécifié à la Section 8. Humidifier le matériau sec avant de le gratter puis disposer dans un contenant.

Section 7 – Manutention et entreposage

Manutention: Éviter de respirer les vapeurs. Assurer l'entrée d'air frais de façon à éliminer les odeurs des produits chimiques pendant l'utilisation et le temps de séchage. Utilisez dans un espace bien aéré. Les activités de construction et de réparation peuvent affecter la qualité de l'air à l'intérieur. Vérifier avec les occupants ou un de leurs représentants (responsable de maintenance, gérant d'édifice, hygiéniste industriel ou responsable de sécurité) afin de déterminer les façons appropriées pour en diminuer l'impact.

Laver vigoureusement après la manipulation. Ne pas poncer, balayer à sec, gratter à sec, percer, scier, utiliser un jet à billes, buriner et pulvériser mécaniquement ou à l'aide de tout autre outil les couvre-planchers élastiques, les supports, les blindages ou les adhésifs d'asphalte dilué existants. Ces produits peuvent contenir de l'amiante ou de la silice cristalline. Éviter de générer de la poussière. Éviter d'inhaler cette poussière, elle est cancérigène et dangereuse pour les voies respiratoires. Pour de plus amples informations concernant les pratiques d'enlèvement complet des couvre-planchers élastiques, consulter la récente édition du bulletin du Resilient Floor Covering Institute; "Le Travail recommandé Pratique pour l'Enlèvement de Couvertures de Plancher Elastiques". Éviter tout contact avec les yeux, la peau et les vêtements.

Entreposage: Entreposer les contenants loin de la chaleur excessive ou du froid excessif. Conserver le récipient bien fermé. Entreposer loin des produits caustiques et des agents oxydants.

Section 8 – Contrôles d'exposition / Protection personnelle

Mesures de précaution: S'il vous plaît se référer aux autres sections et aux autres sous-sections de ce MSDS.

Contrôles d'ingénierie: Faire fonctionner au maximum le système de ventilation central et/ou le système d'évacuation local afin de maintenir le niveau des vapeurs organiques sous les limites d'exposition recommandées. Utiliser seulement dans des zones bien ventilées.

Protection des voies respiratoires: Un programme de protection respiratoire défini selon les normes de l'OSHA 1910.134 et de l'ANSI Z88.2 doit être appliqué à chaque fois que les conditions sur les lieux de travail exigent de porter un respirateur. On ne s'attend pas à ce qu'un masque soit nécessaire dans les conditions normales de manipulation. En cas de situation d'urgence, un masque de type agréé par NIOSH peut être nécessaire.

Protection de la peau: Portez des gants en caoutchouc.

Protection des yeux: Lunettes étanches ou lunettes de sécurité avec boucliers latéraux.

Équipements de protection additionnels: Aucun.

Pratiques hygiéniques: Dans des conditions normales d'utilisation, même si ce produit n'est pas considéré ni un irritant pour les yeux, ni un danger en cas d'inhalation ou de contact avec la peau, il est recommandé que le personnel minimise les risques de contact avec les yeux et la peau et évite d'inhaler les vapeurs. Enlever et laver les vêtements contaminés avant réutilisation.

Section 9 – Propriétés physiques et chimiques

Point d'ébullition:	Pas Etabli	**Densité de vapeur:**	Pas Etabli
Odeur:	L'Ammoniaque très Insignifiante	**Limite de détection olfactive:**	Pas Etabli
Apparence:	Blanc à De-Blanc	**Taux d'évaporation:**	Pas Etabli
Solubilité dans l'eau (H_2O):	Pas Etabli	**Poids spécifique:**	1.202
Point de congélation:	Pas Etabli	**Taux de pH:**	Entre 7,0 et 12,0
Pression de vapeur:	Pas Etabli	**Viscosité:**	Pas Etabli
État physique:	Pâte		

(Consulter la Section 16 pour connaître la signification des abréviations))

Section 10 – Stabilité et réactivité

Conditions à éviter: Chaleur excessive ou froid excessif.

Incompatibilité: des oxydants forts des bases fortes

Produits de décomposition dangereux: Produits de décomposition habituels : oxydes de carbone (COx) et oxydes d'azote (NOx).

Risque de polymérisation: Aucune polymérisation dangereuse ne surviendra dans des conditions normales d'utilisation.

Stabilité: Stable dans des conditions normales

Section 11 – Propriétés toxicologiques

Produit DL50: Pas Etabli **Produit CL50:** Pas Etabli

CASRN	Nom Chimique	LD50	LC50	Poids%
57-13-6	Urée	Rat:8471 mg/kg	----------	1-5
107-21-1	Éthylène glycol	Rat:4700 mg/kg	Rat:10876 mg/kg	1-5
100-40-3	4-Vinylcyclohexne	16620 mg/kg	4000 ppm rat	<0.0006

Effets cancérigènes:

Numéro CAS	Nom Chimique	ACGIH	OSHA	IARC	NTP	Poids%
13463-67-7	Dioxyde de titane	-----	-----	Classification pas possible des données actuelles.	-----	0.1-1.0
100-40-3	4-Vinylcyclohexne	Confirmée cancérogène animale avec le pertinence inconnu aux humains.	-----	Cancérogène possible.	-----	<0.0006
14808-60-7	Silice cristalline	Présumée cancérogène humaine.	-----	-----	Cancérogène connue.	<0.00001

Données significatives possiblement pertinentes à l'humain: Aucun

Section 12 – Information écologique

Information écologique: Aucune dégradation de l'environnement n'est connue ou prévisible dans les conditions normales d'utilisation.

Section 13 – Information sur la mise au rebut

Information concernant la mise au rebut: Disposer de ce matériau en respectant les lois fédérales, provinciales et municipales. Les lois et restrictions provinciales et municipales sont complexes et peuvent différer des lois fédérales. La responsabilité de la disposition appropriée des déchets appartient au propriétaire des déchets.

Code de mise au rebut de l'Agence de protection de l'environnement (40 CFR Section 261): Aucun

Section 14 – Étiquetage selon le Ministère des Transports

Nom du produit expédié:	Aucun	**Groupe d'emballage:**	Pas Applicable
Nom technique:	Aucun	**Classe de transport:**	Pas Applicable
Classe de danger:	Pas Applicable	**Numéro UN/NA:**	Aucun

Note : L'information d'expédition fournie est applicable pour le transport de sol domestique seulement. La catégorisation différente peut s'appliquer si expédié via les autres modes de et/ou de transport aux destinations non résidentielles.

Section 15 – Information sur les règlements

CERCLA - Catégories de dangers selon le SARA:

Ce produit a été revu en conformité avec les «Catégories de dangers» établies par l'Agence de protection de l'environnement et promulguées aux Sections 311 et 312 du Superfund Amendment and Reauthorization Act de 1986 (SARA Titre III). Selon les définitions applicables, il est considéré répondre aux catégories suivantes :

SARA SECTION 313 :
Ce produit contient les substances suivantes assujetties aux normes de déclaration de la Section 313, du Titre III de la Superfund Amendments and Reauthorization Act de 1986 et du 40 CFR partie 372 :

Nom Chimique	Numéro CAS	Poids%
Éthylène glycol	107-21-1	1-5

LOI SUR LE CONTRÔLE DES SUBSTANCES TOXIQUES:

Tous ingrédients dans ce produit sont ou sur la liste d'inventaire de TSCA, ou autrement exempter.

Ce produit contient les substances chimiques suivantes à déclarer selon les normes TSCA 12(B) si exporté à l'extérieur des États-Unis:

Nom Chimique	Numéro CAS
5-Chloro-2-Methyl-4-Isothazoli	26172-55-4
2-Methyl-4-Isothiazolin-3-One	2682-20-4

Lois particulières selon les états aux États-Unis:

NEW JERSEY RIGHT-TO-KNOW :

Les substances suivantes sont non-dangereuses mais sont comptées parmi les 5 principaux ingrédients composant ce produit:

Nom Chimique	Numéro CAS	Poids%
Eau	7732-18-5	30-60
Hydrocarbon Petroleum Resin	De propriété	3-7
Copolymère de styrène et de butadiène	De propriété	3-7

PENSYLVANIA RIGHT-TO-KNOW:

Les substances suivantes sont non-dangereuses mais sont présentes à plus de 3% dans ce produit:

Nom Chimique	Numéro CAS	Poids%
Eau	7732-18-5	30-60
Hydrocarbon Petroleum Resin	De propriété	3-7
Copolymère de styrène et de butadiène	De propriété	3-7

PROPOSITION 65 DE CALIFORNIE:

AVERTISSEMENT ! Les produits chimiques listés ci-dessous et contenus dans ce produit sont reconnus par l'État de la Californie pour causer le cancer:

Nom Chimique	Numéro CAS	Définition	Dater Enuméré	Poids%
4-Vinylcyclohexne	100-40-3	Cancérogène.	Listed: May 1, 1996	<0.0006
Silice cristalline	14808-60-7	Cancérogène.	Listed: October 1, 1988	<0.00001

AVERTISSEMENT ! Les produits chimiques listés ci-dessous et contenus dans ce produit sont reconnus par l'État de la Californie pour causer le cancer, des anomalies congénitales ou d'autres problèmes reliés à la reproduction:
Aucun.

Section 16 – Autres informations

Classification des dangers:

Santé: 1 Inflammabilité: 1 Réactivité: 0 Protection personnelle: X

COMPOSÉ ORGANIQUE VOLATIL, G/LITRE: 34.3 LB/GALLON: 0.3 POIDS %: 1.557

RAISONS DE RÉVISION: Mise à jour périodique

Légende:

N.A. – Non applicable

N.É. – Non établi

N.D. – Non déterminé

VOC – Composé organique volatil

PEL – Limite d'exposition permise

TLV – Limite tolérable d'exposition

NTP – National Toxicology Program

STEL – Limite d'exposition à court terme

LD50 – Dose létale 50

CASRN – Numéro enregistré selon le Chemical Abstracts Service

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

ACGIH – American Conference of Governmental Industrial Hygienists

SARA – Superfund Amendments and Reauthorization Act de 1986

NJRTK – New Jersey Right-to-Know Law

OSHA – Occupational Safety and Health Administration

HMIS – Hazardous Materials Identification System

TWA – Valeur d'exposition moyenne pondérée

F – Degré Fahrenheit

C – Degré Celcius

LC50 – Concentration létale 50

DAP croit que les données et renseignements stipulés dans cette fiche signalétique sont précis à la date de rédaction de cette fiche. Ces données sont offertes en toute bonne foi et représente des valeurs standard sans toutefois être des spécifications du produit. **AUCUNE GARANTIE SUR LA QUALITÉ MARCHANDE, GARANTIE D'APTITUDE POUR AUCUN TYPE D'EMPLOI PARTICULIER OU TOUTE AUTRE FORME DE GARANTIE N'EST EXPRESSÉMENT OU IMPLICITEMENT OFFERTE EN REGARD DES INFORMATIONS FOURNIES DANS CETTE FICHE OU DES INFORMATIONS RELATIVES AU PRODUIT.** Cette fiche est produite uniquement à titre de guide pour les personnes formées à cet effet afin qu'elles puissent appliquer les procédures appropriées de manutention auxquelles le produit réfère. Toutefois, c'est la responsabilité chaque utilisateur de revoir les recommandations selon le contexte spécifique de l'utilisation prévue et de déterminer si ces procédures sont appropriées.

<Fin de la fiche signal étique>

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Roberts 7032 Cove Base Adhesive
Roberts MSDS Code #: 7032C
PRODUCT USES: For installing vinyl and rubber cove base

W.H.M.I.S. CLASSIFICATION: NON-CONTOLLED

V.O.C. CONTENT: 88g/L

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: ROBERTS COMPANY CANADA LTD.
ADDRESS: 2070 Steeles Ave. Bramalea, Ontario L6T 1A7
24 HOUR (CANUTEC) PHONE: (613) 996-6666
DATE REVISED: December 01/06

NAME OF PREPARER: Technical Dept.
INFORMATION PHONE: (905) 791-4444
SOURCES USED: Raw material supplier M.S.D.S.

SECTION II - HAZARDOUS INGREDIENTS INFORMATION

COMPONENT	APPROX. %	UN#	CAS#	LD50	LC50
MINERAL SPIRITS	5-10	1256	8052-41-3		1,400 PPM 8HR., RAT

SECTION III – PHYSICAL DATA

BOILING POINT: 100° C FREEZING POINT: N/A
VAPOUR DENSITY (AIR=1): 4-5
VAPOUR PRESSURE (MM OF MERCURY): Min. spirits 2 @ 20ºC
SOLUBILITY IN WATER: Miscible
APPEARANCE AND ODOUR: White, soft buttery paste, mild solvent odour.

SPECIFIC GRAVITY (H20=1): 1.17 pH: 9.5 – 10.5
EVAPORATION RATE (BUTYL ACETATE=1): Slower
EVAPORATION RATE (ETHYL ACETATE=1): Slower
PERCENT VOLATILE: 46
ODOUR THRESHOLD (PPM): Not available

SECTION IV - FIRE AND EXPLOSION DATA

FLASHPOINT (specify method): Over 200ºF METHOD USED: P.M.C.C. IMPACT SENSITIVITY: Insensitive
FLAMMABLE LIMITS (% BY VOLUME): LOWER: 0.8-0.9 UPPER: 7 SENSITIVITY TO STATIC DISCHARGE: Vapours may be
FIRE EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical AUTO IGNITION TEMP: N/A TDG FLAMMABILITY CLASSIFICATION: Not regulated.
SPECIAL FIRE-FIGHTING PROCEDURES: Poses minimal fire hazard. Must be heated substantially. Self-contained breathing apparatus should be worn for fires involving this product.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable vapours, heavier than air, may be able to collect in confined spaces and pose a hazard.

SECTION V - REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Excessive Heat
INCOMPATIBILITY (Materials to avoid): Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, and Hydrocarbons upon combustion.
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: None

SECTION VI – TOXICOLOGICAL PROPERTIES ENTRY ROUTE TABLE

SKIN CONTACT	X	SKIN ABSORPTION		EYE CONTACT	X	INHALATION ACUTE	X	INHALATION CHRONIC		INGESTION	X

EFFECTS OF ACUTE EXPOSURE TO MATERIAL: Overexposure to vapours can cause eye, nose, throat irritation, dizziness, drowsiness, headache feelings of drunkenness, nausea, vomiting. Massive overexposure can cause respiratory failure. Ingestion causes similar symptoms. Aspiration causes severe pneumonitis. Product is eye and skin irritant.
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: Prolonged or repeated contact with skin may cause drying and defatting of skin and dermatitis. Although unlikely to occur, overexposure to vapours may cause corneal damage, photophobia. In rare cases, severe overexposure may sensitize heart muscles causing heart arrhythmia.

LD50 (SPECIFY SPECIES & ROUTE):	LC50 (SPECIFY SPECIES):	EXPOSURE LIMIT:	IRRITANCY:
Not available	Not available	TLV-TWA, PPM MINERAL SPIRITS, 100	Eye, nose, throat and skin irritant
SENSITIZING CAPACITY:	CARCINOGENICITY:	REPRODUCTIVITY EFFECTS:	SYNERGISTIC MATERIALS:
May sensitize heart muscles. See above.	None	None known	None known

SECTION VII – PREVENTATIVE MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): Not required under normal conditions of use. If TLV is to be exceeded, employ an approved NIOSH/MSHA chemical cartridge respirator with organic vapour cartridge. Consult your safety equipment supplier for respirator requirements.
VENTILATION: General dilution ventilation to keep vapours below TLV.
PROTECTIVE GLOVES: Solvent resistant gloves should be worn. EYE PROTECTION: Goggles / glasses with side shields
OTHER PROTECTIVE EQUIPMENT: None required.
SPILL PROCEDURES: Provide adequate ventilation. Mechanically collect. Wash area with water. Prevent from entering sewers or waterways. Spilled material may cause slippery conditions. Promptly report significant spills to appropriate authorities. Consult local regulations.
WASTE DISPOSAL METHOD: Destroy by incineration at an approved facility. Dried material only may be landfilled. Consult local regulations.
STORAGE & HANDLING PRECAUTIONS: Store in ventilated area as close to 70ºF as possible.
OTHER PRECAUTIONS: Keep containers closed when not in use. Keep out of reach of children.

SECTION VIII – FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, trained personnel should administer artificial respiration. Obtain medical attention immediately.
EYES: Flush with water for 20 minutes holding eyelids open. Obtain medical attention immediately.
SKIN: Wash with soap and water. Remove dried adhesive with mineral spirits followed by soap and water. Remove contaminated clothing and launder before re-use. Consult physician if irritation develops.
INGESTION: Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Contact physician immediately.

SECTION 1 - PRODUCT IDENTIFICATION

Manufacturer/Supplier identifier:

HENRY®

The W.W. Henry Company
400 Ardex Park Drive
Aliquippa, PA 15001
U.S.A.
Tel: (724) 203-8499

MATERIAL SAFETY DATA SHEET

Use in case of emergency only:
CHEM-TEL – 1-800-255-3924
OR
1-813-248-0585 (call collect)

Visit our Website: http://www.wwhenry.com

Product identifier/Trade name:
Henry 314 Multipurpose Ceramic Tile Adhesive

HMIS Hazard Index:
HEALTH = 1 FLAMMABILITY = 1 REACTIVITY = 0
4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal

WHMIS Classification:
D2B – Toxic material with other effects

CHEMICAL NAME	CHEMICAL FAMILY	CHEMICAL FORMULA
Not Applicable	Not Applicable	Not Applicable
TRADE NAME AND SYNONYMS	**MOLECULAR WEIGHT**	**MATERIAL USE**
Henry® 314	Not Applicable	Filled water-based adhesive

SECTION 2 - CHEMICAL COMPOSITION / HAZARDOUS INGREDIENTS

Hazardous Ingredients	C.A.S. Numbers	% (weight)	OSHA PEL TWA	OSHA PEL STEL	ACGIH TLV TWA	ACGIH TLV STEL
Stoddard solvent	8052-41-3	5-10	100 ppm	N/Av	100 ppm	N/Av

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview
IRRITANT. White paste with mild hydrocarbon odor. May cause a moderate skin irritation. Vapours or mist may cause mild respiratory tracts irritations and central nervous system (CNS) effects, such as headache, dizziness, intellectual impairment and fatigue. May cause minor to moderate irritation to eyes.

POTENTIAL HEALTH EFFECTS:

Primary entry route(s):
Skin, eye, ingestion and inhalation.

Target organs:
None

Effects of short-term (acute) exposure:
Inhalation: Vapours or mist may cause mild irritations and central nervous system (CNS) effects, such as headache, dizziness, intellectual impairment and fatigue.

Skin: May cause a moderate skin irritation. Prolonged contact may cause drying and cracking of the skin and moderate irritations.

Eye: May cause minor to moderate irritation to eyes.

Ingestion: None expected. May cause nausea, and irritation to the mouth and digestive tract if ingested in large amounts.

Effects of long-term (chronic) exposure:
None expected.

Conditions aggravated by exposure: Skin conditions.	**Carcinogenic status:** See TOXICOLOGICAL INFORMATION, Section 11.
Additional health hazards: For further information, see TOXICOLOGICAL INFORMATION,	**Potential environmental effects:** See ECOLOGICAL INFORMATION (Section 12).

Section 11.	

SECTION 4 - FIRST AID MEASURES

Inhalation: In case of exposure to excessive quantities of dusts/vapours, remove victim to fresh air. Seek medical attention if symptoms persist.

Skin contact: flush skin thoroughly with lukewarm water for at least 20 minutes. Under running water, remove contaminated clothing. Call a physician if irritation persists.

Eye contact: Flush eyes thoroughly with lukewarm water for at least 20 minutes while holding the eyelid(s) open. Consult a physician if pain, irritation or vision problems persist after treatment.

Ingestion: Do not induce vomiting. Never give anything by mouth if patient is unconscious. Seek medical attention if symptoms develop.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability:
Product is not flammable under normal conditions.

Flammability classification (OSHA 29 CFR 1910.1200):
Non-flammable.

Flash point (Method):	**Lower flammable limit (% by volume):**	**Upper flammable limit (% by volume):**
> 93.3°C / > 200°F (Setaflash Closed Tester)	Not applicable	Not applicable

Auto-ignition temperature:	**Hazardous combustion products:**
N/Av	Carbon monoxide, carbon dioxide, and other toxic vapors and gases that are common to thermal degradation or organic compounds.

Sensitivity to mechanical impact:	**Sensitivity to static discharge:**
N/Av	N/Av

Suitable extinguishing media:
Carbon dioxide, dry chemical powder, appropriate foam or water fog.

Special fire-fighting procedures/equipment:
Firefighters should wear proper chemically protective equipment and self-contained breathing apparatus. Move containers from fire area if it can be done without risk. Closed containers may explode with the pressure building from the heat. Use water to cool fire exposed containers. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:
IRRITANT. Wear personal protective equipment during cleanup. Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment especially where exposure to vapor, dust or fume is possible.

Spill response/Cleanup:
Ventilate area of spill or release. Eliminate all sources of ignition. Contain material, preventing it from entering sewer lines or waterways. Use absorbents to assist the pick up of material. Scrape up product and place it into a container for disposal. Residual of product, while still wet, can be cleaned up with warm soapy water. Notify the appropriate authorities as required.

Environmental precautions:
Do not allow material to be discharged into the atmosphere or into sewers or ground water.

Special spill response procedures:
If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

DOT/CERCLA Reportable quantity (RQ): None to report.

SECTION 7 - HANDLING AND STORAGE

Safe handling procedures:
IRRITANT. Wear suitable protective equipment. Use with adequate ventilation. Training the workers on the potential health hazards associated with product vapor, dust or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Do not breathe vapors, fumes or dust. Avoid contact with eyes, skin and clothing. Keep away from flame, sparks and other ignition sources. Avoid and control operations which create vapors/dusts.

Storage requirements:
Store in a cool (temperature below 32.2°C / 90°F), dry, well-ventilated area. No smoking in the area. Protect from damage.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls:
Use with adequate ventilation. Normal ambient ventilation should be sufficient.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection: Respiratory protection should not be required.

Skin protection and other protective equipment: Impervious gloves appropriate to the material if skin contact with product is expected. Advice should be sought from glove suppliers. Where exposure to product is possible use protective clothing. An eyewash fountain and safety shower should be made available in the immediate working area.

Eye / face protection: Wear safety glasses to prevent any product from entering the eyes.

Permissible exposure levels:
For individual ingredient exposure levels, see Section 2.

General Hygiene Considerations:
Avoid contact with eyes, skin and clothing. Avoid breathing vapors/dusts. Never eat, drink, or smoke in work areas. Clean all equipment and clothing at end of each work shift.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste (liquid)		**Odor and appearance:** White paste with mild hydrocarbon odor.	
Odor threshold: N/Av	**Specific gravity (water = 1):** 1.39	**Vapor pressure:** N/Av	**Vapor density:** Heavier than air
Evaporation rate: Slower than Ether	**Boiling point:** 100°C / 212°F	**Melting/freezing point:** N/Av	**Solubility in water:** Dispersible
% volatile by volume: N/Av	**pH:** 9.05	**Coefficient of oil/water distribution:** N/Av	**Particle size:** N/Av
% volatile by weight: 25-35 % (30 min. at 135°C / 275°F)	**Weight/Gallon:** 11.5 lbs (water = 8.3 lbs)	**Volatile Organic Content (VOC):** 121 g/L calculated at 21°C / 70°F, SCAQMD	

SECTION 10 – REACTIVITY AND STABILITY DATA

Stability and reactivity:
Stable under the recommended storage and handling conditions prescribed.

Polymerization:
Hazardous polymerization will not occur.

Conditions to avoid:
Temperatures above 32.2°C / 90°F.

Materials to avoid:
Strong oxidizing agents.

Hazardous decomposition products:
Carbon monoxide, carbon dioxide, and other toxic vapors and gases that are common to thermal degradation or organic compounds.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data:
There is no available data for the product itself. See below for individual ingredient acute toxicity data.

Ingredients:	LD_{50} (route, species):	LC_{50} (species):
Stoddard Solvent	Not available.	Not available.

Carcinogenicity:
No ingredient classified as carcinogenic to humans by IARC, NTP, OSHA and ACGIH.

Teratogenicity, mutagenicity, other reproductive effects:
None known.

Sensitization to material:	**Synergistic materials:**
None known.	N/Av
Irritancy of material:	
Moderate degree of irritation.	

For more details, refer to Section 3.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects:
N/Av

Important environmental characteristics:
N/Av

Aquatic toxicity:
N/Av

SECTION 13 - WASTE DISPOSAL

Handling and storage conditions for disposal:
Handle according to recommendations listed in Section 7.

Methods of disposal:
Dispose of in sealed containers in accordance with all applicable government regulations. Dispose in accordance with all applicable federal, provincial, state and local regulations. Contact your local, state or federal environmental agency for specific rules.

RCRA:
If this product, as supplied, becomes a waste, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. Waste classification should be determined by the end user of the product. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 - TRANSPORTATION INFORMATION

Transportation of Dangerous Goods (TDG) Information:
This product is not regulated according Canadian Regulations.

US DOT 49 CFR information:
This product is not regulated according to US Regulations.

SECTION 15 - REGULATORY INFORMATION

In Canada:

WHMIS information:
This product is controlled by WHMIS. It does meet the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

CEPA information:
Ingredient listed on the DSL/NDSL.

SECTION 15 - REGULATORY INFORMATION continued

In U.S.A.:

TSCA information:
Ingredient listed on the TSCA inventory.

DOT/CERCLA Reportable Quantity (RQ): None Reportable

SARA TITLE III:
Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to the TSCA notification requirements, since it does not contain any Toxic Chemical constituents above the minimum levels.

California Proposition 65:
This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

New Jersey Hazardous Substance Lists:
This product contains the following listed hazardous substances above threshold percentages:

Chemical Name	CAS #
Stoddard solvent	8052-41-3

SECTION 16 - OTHER INFORMATION

Prepared by:	**Telephone number:**	**Preparation date:**
The W.W. Henry Company	(724) 203-8499	December 7, 2004

References:

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2004.
2. International Agency for Research on Cancer Monographs, 2004.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2004 (Chempendium and RTECs).
4. Material Safety Data Sheet from manufacturer.
5. US EPA Title III List of Lists – October 2001 version.
6. California Proposition 65 List – December 7, 2004 version.

Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists
CAS = Chemical Abstract Service
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR = Code of Federal Regulations (Transportation in U.S.A.)
DOT = Department of Transport (U.S.A.)
DSL = Domestic Substance List
IARC = International Agency for Research on Cancer
N/Av = Not available.
N/Ap = Not applicable
NIOSH = National Institute for Occupational Safety and Health
NTP = National Toxicology Program (U.S.A.)
OSHA = Occupational Safety and Health Administration (U.S.A.)
PEL = Permissible Exposure Limit
RCRA = Resource Conservation and Recovery Act
SARA = Superfund Amendments & Reauthorization Act
STEL = Short-term Exposure Limit
TLV = Threshold Limit Value
TSCA = Toxic Substances Control Act
TWA = Time Weighted Average
WHMIS = Workplace Hazardous Materials Information System

The information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all - inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. W.W. Henry Company will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein. This Material Safety Data Sheet is valid for three (3) years.

End of the MSDS

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Roberts 3200 White Cove Base Adhesive **W.H.M.I.S. CLASSIFICATION:** NON-CONTOLLED
PRODUCT USES: For installing vinyl and rubber cove base **V.O.C. CONTENT:** 88g/L

SECTION I - MANUFACTURER IDENTIFICATION
MANUFACTURER'S NAME: ROBERTS COMPANY CANADA LTD.
ADDRESS: 2070 Steeles Ave. Bramalea, Ontario L6T 1A7 **NAME OF PREPARER:** Peter Sharko
24 HOUR (CANUTEC) PHONE: (613) 996-6666 **INFORMATION PHONE:** (905) 791-4444
DATE REVISED: 06/30/02 (Product was discontinued in 2002. Replaced by 7032) **SOURCES USED:** Raw material supplier M.S.D.S.

SECTION II - HAZARDOUS INGREDIENTS INFORMATION

COMPONENT	APPROX. %	UN#	CAS#	LD50	LC50
MINERAL SPIRITS	5-10	1256	8052-41-3		1,400 PPM 8HR., RAT

SECTION III – PHYSICAL DATA
BOILING POINT: 100° C **FREEZING POINT:** N/A **SPECIFIC GRAVITY (H20=1)**: 1.17 **pH:** 9.5 – 10.5
VAPOUR DENSITY (AIR=1): 4-5 **EVAPORATION RATE (BUTYL ACETATE=1):** Slower
VAPOUR PRESSURE (MM OF MERCURY): Min. spirits 2 @ 20ºC **EVAPORATION RATE (ETHYL ACETATE=1):** Slower
SOLUBILITY IN WATER: Miscible **PERCENT VOLATILE:** 46
APPEARANCE AND ODOUR: White, soft buttery paste, mild solvent odour. **ODOUR THRESHOLD (PPM):** Not available

SECTION IV - FIRE AND EXPLOSION DATA
FLASHPOINT (specify method): Over 200ºF **METHOD USED:** P.M.C.C. **IMPACT SENSITIVITY:** Insensitive
FLAMMABLE LIMITS (% BY VOLUME): **LOWER:** 0.8-0.9 **UPPER:** 7 **SENSITIVITY TO STATIC DISCHARGE:** Vapours may be
FIRE EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical **AUTO IGNITION TEMP:** N/A **TDG FLAMMABILITY CLASSIFICATION:** Not regulated.
SPECIAL FIRE-FIGHTING PROCEDURES: Poses minimal fire hazard. Must be heated substantially. Self-contained breathing apparatus should be worn for fires involving this product.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable vapours, heavier than air, may be able to collect in confined spaces and pose a hazard.

SECTION V - REACTIVITY DATA
STABILITY: Stable **CONDITIONS TO AVOID:** Excessive Heat
INCOMPATIBILITY (Materials to avoid): Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, and Hydrocarbons upon combustion.
HAZARDOUS POLYMERIZATION: Will not occur **CONDITIONS TO AVOID:** None

SECTION VI – TOXICOLOGICAL PROPERTIES ENTRY ROUTE TABLE

SKIN CONTACT	X	SKIN ABSORPTION		EYE CONTACT	X	INHALATION ACUTE	X	INHALATION CHRONIC		INGESTION	X

EFFECTS OF ACUTE EXPOSURE TO MATERIAL: Overexposure to vapours can cause eye, nose, throat irritation, dizziness, drowsiness, headache feelings of drunkenness, nausea, vomiting. Massive overexposure can cause respiratory failure. Ingestion causes similar symptoms. Aspiration causes severe pneumonitis. Product is eye and skin irritant.
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: Prolonged or repeated contact with skin may cause drying and defatting of skin and dermatitis. Although unlikely to occur, overexposure to vapours may cause corneal damage, photophobia. In rare cases, severe overexposure may sensitize heart muscles causing heart arrhythmia.

LD50 (SPECIFY SPECIES & ROUTE):	LC50 (SPECIFY SPECIES):	EXPOSURE LIMIT:	IRRITANCY:
Not available	Not available	TLV-TWA, PPM MINERAL SPIRITS, 100	Eye, nose, throat and skin irritant
SENSITIZING CAPACITY:	**CARCINOGENICITY:**	**REPRODUCTIVITY EFFECTS:**	**SYNERGISTIC MATERIALS:**
May sensitize heart muscles. See above.	None	None known	None known

SECTION VII – PREVENTATIVE MEASURES
RESPIRATORY PROTECTION (SPECIFY TYPE): Not required under normal conditions of use. If TLV is to be exceeded, employ an approved NIOSH/MSHA chemical cartridge respirator with organic vapour cartridge. Consult your safety equipment supplier for respirator requirements.
VENTILATION: General dilution ventilation to keep vapours below TLV.
PROTECTIVE GLOVES: Solvent resistant gloves should be worn. **EYE PROTECTION:** Goggles / glasses with side shields
OTHER PROTECTIVE EQUIPMENT: None required.
SPILL PROCEDURES: Provide adequate ventilation. Mechanically collect. Wash area with water. Prevent from entering sewers or waterways. Spilled material may cause slippery conditions. Promptly report significant spills to appropriate authorities. Consult local regulations.
WASTE DISPOSAL METHOD: Destroy by incineration at an approved facility. Dried material only may be landfilled. Consult local regulations.
STORAGE & HANDLING PRECAUTIONS: Store in ventilated area as close to 70ºF as possible.
OTHER PRECAUTIONS: Keep containers closed when not in use. Keep out of reach of children.

SECTION VIII – FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, trained personnel should administer artificial respiration. Obtain medical attention immediately.
EYES: Flush with water for 20 minutes holding eyelids open. Obtain medical attention immediately.
SKIN: Wash with soap and water. Remove dried adhesive with mineral spirits followed by soap and water. Remove contaminated clothing and launder before re-use. Consult physician if irritation develops.
INGESTION: Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Contact physician immediately.

Material Safety Data Sheet

24 Hour Emergency Phone Numbers:
Medical: 1-800-327-3874
1-513-558-5111
Transportation:
1-800-535-5053
1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Product Name: DAP WELDWOOD Multi-Purpose Floor Covering Adhesive

Product UPC Number: 7079800144, 7079800142, 7079800141, 7079800140, 7079872054, 7079872052, 7079872049

Product Use/Class: Latex Floor Covering Adhesive

Manufacturer:
DAP Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non-emergency matters)

Revision Date: 03/07/2005

Supercedes: 02/17/1999

MSDS Number: 00030807001

Section 2 - Composition / Information On Ingredients

Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Kaolin	1332-58-7	15-40	2 MGM3	N.E.	N.E.	N.E.	N.E.	N.E.	No
Petroleum hydrocarbon oil	64742-52-5	10-30	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Urea	57-13-6	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Ethylene glycol	107-21-1	1-5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Titanium dioxide	13463-67-7	0.1-1.0	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
4-Vinylcyclohexene	100-40-3	<0.0006	0.1 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	No

Exposure Notes:

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

Section 3 - Hazards Identification

Emergency Overview: A white to off-white paste with a very slight ammonia odor. WARNING! May cause irritation to the

respiratory tract. Harmful or fatal if swallowed. May cause eye, skin, nose, throat and respiratory tract irritation. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Vapors may be irritating to eyes, nose, throat, and lungs. Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system.

Effects Of Overexposure - Ingestion: If ingested, may cause vomiting, diarrhea, and depressed respiration. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

Effects Of Overexposure - Chronic Hazards: Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals. Prolonged or repeated contact with skin results in irritation and dermatitis.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation

Medical Conditions which May be Aggravated by Exposure: None known.

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

First Aid - Skin Contact: Wash off with soap and water.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Note to Physician: None.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arise from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Flash Point, F: greater than 200 degrees Fahrenheit
Method: (Seta Closed Cup)

Lower Explosive Limit, %: Not Established

Upper Explosive Limit, %: Not Established

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Unusual Fire And Explosion Hazards: None known.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Wet dried material before scraping up and place into containers.

Section 7 - Handling And Storage

Handling: Do not breathe vapors. Provide fresh air such that chemical odors cannot be detected during use and while drying. Use in well ventilated area. Construction and repair activities can adversely affect indoor air quality. Consult with occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize impact.

Wash thoroughly after handling. Do not sand, dry sweep, dry scrape, drill, saw, beadblast, mechanically chip, pulverize or otherwise machine existing resilient flooring, backing, lining felt, or asphaltic "cut-back" adhesives. These products may contain either asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. See current edition of the Resilient Floor Covering Institute's publication "Recommended Work Practices for Removal of Resilient Floor Coverings", for detailed information and instructions addressed to the task of removing all resilient floor covering materials. Avoid contact with eyes, skin and clothing.

Storage: Store containers away from excessive heat and freezing. Keep containers tightly closed. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Provide sufficient general and/or local exhaust ventilation to maintain exposure below recommended exposure limit. Use only in well-ventilated areas.

Respiratory Protection: A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use is not expected to be necessary under normal conditions of handling. In emergency situations, use of a NIOSH-approved respirator may be required.

Skin Protection: Wear rubber gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: None.

Hygienic Practices: Although this product is not considered an eye irritant, inhalation hazard, or a skin contact hazard under normal conditions, it is advisable that personnel minimize skin contact, inhalation of vapors and eye contact. Remove and wash contaminated clothing before re-use.

Section 9 - Physical And Chemical Properties

Boiling Range:	Not Established	**Vapor Density:**	Not Established
Odor:	Very Slight Ammonia	**Odor Threshold:**	Not Established
Appearance:	White to Off-White	**Evaporation Rate:**	Not Established
Solubility in H2O:	Not Established	**Specific Gravity:**	1.202
Freeze Point:	Not Established	**pH:**	Between 7.0 and 12.0
Vapor Pressure:	Not Established	**Viscosity:**	Not Established
Physical State:	Paste		

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under normal conditions.

Section 11 - Toxicological Information

Product LD50: Not Established **Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50	WT%
57-13-6	Urea	Rat:8471 mg/kg	----------	1-5
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg	1-5
100-40-3	4-Vinylcyclohexene	16620 mg/kg	4000 ppm rat	<0.0006

Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP	WT%
13463-67-7	Titanium dioxide	-----	-----	Classification not possible from current data.	-----	0.1-1.0
100-40-3	4-Vinylcyclohexene	Confirmed animal carcinogen with unknown relevance to humans.	-----	Possible carcinogen.	-----	<0.0006
14808-60-7	Silica, crystalline	Suspected human carcinogen.	-----	-----	Known carcinogen.	<0.00001

Significant Data with Possible Relevance to Humans: None

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): none

Section 14 - Transportation Information

DOT Proper Shipping Name: None
DOT Technical Name: None
DOT Hazard Class: N.A.
Packing Group: N.A.
Hazard Subclass: N.A.
DOT UN/NA Number: None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number	WT%
Ethylene glycol	107-21-1	1-5

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS Number
5-Chloro-2-methyl-4-isothazoli	26172-55-4
2-Methyl-4-isothiazolin-3-one	2682-20-4

U.S. State Regulations:

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number	WT%
Water	7732-18-5	30-60
Hydrocarbon Petroleum Resin	Proprietary	3-7
Butadiene-styrene copolymer	Proprietary	3-7

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number	WT%
Water	7732-18-5	30-60
Hydrocarbon Petroleum Resin	Proprietary	3-7
Butadiene-styrene copolymer	Proprietary	3-7

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

Chemical Name	CAS Number	Definition	Date Listed	WT%
4-Vinylcyclohexene	100-40-3	Carcinogenic.	Listed: May 1, 1996	<0.0006
Silica, crystalline	14808-60-7	Carcinogenic.	Listed: October 1, 1988	<0.00001

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm:

None.

Section 16 - Other Information

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 34.3 LB/GAL: 0.3 WT%: 1.557

REASON FOR REVISION: Periodic Update

Legend:

N.A. – Not Applicable
N.E. – Not Established
N.D. – Not Determined
VOC – Volatile Organic Compound
PEL – Permissible Exposure Limit
TLV – Threshold Limit Value
STEL – Short Term Exposure Limit
LD50 – Lethal Dose 50
F – Degree Fahrenheit
MSDS – Material Safety Data Sheet
ACGIH – American Conference of Governmental Industrial Hygienists
SARA – Superfund Amendments and Reauthorization Act of 1986
NJRTK – New Jersey Right-to-Know Law
OSHA – Occupational Safety and Health Administration
HMIS – Hazardous Materials Identification System
NTP – National Toxicology Program
CEIL – Ceiling Exposure Limit
LC50 – Lethal Concentration 50
C – Degree Celcius
CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>

Hoja de datos de la seguridad de los materiales

Números telefónicos de emergencia las 24 horas:
Emergencias médicas: 1-800-327-3874
1-513-558-5111
Transporte:
1-800-535-5053
1-352-323-3500

NOTA: Los números de emergencia del Centro de Respuesta Nacional sólo se deben usar en caso de emergencias químicas que involucren un derramamiento, incendio, exposición o accidente que tengan que ver con químicos

IMPORTANTE: Lea esta hoja de datos de la seguridad de los materiales antes de manipular o desechar este producto, y entregue esta información a los empleados, clientes y usuarios de este producto. Este producto está cubierto por la norma de comunicación de riesgos OSHA, y este documento fue preparado de acuerdo con los requisitos de dicha norma. Todos los términos abreviados utilizados en este documento se describen con más detalles en la sección 16.

Sección 1 - Información del producto químico/ compañía

Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.
On peut demander cette MSDS a la langue Francaise Canadienne.

Nombre de producto:	DAP WELDWOOD Multi-Purpose Floor Covering Adhesive	**Fecha de revisión:**	03/07/2005
Número de UPC del producto:	7079800144, 7079800142, 7079800141, 7079800140, 7079872054, 7079872052, 7079872049	**Reemplaza a:**	02/17/1999
Uso/ clase del producto:	Latex Floor Covering Adhesive	**Número de hoja de datos (MSDS):**	00030807001

Fabricante:
DAP Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (asuntos de no emergencia)

Sección 2 - Composición / Información sobre los Ingredientes

Nombre Químico	CASRN	Peso%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Piel
Caolín	1332-58-7	15-40	2 MGM3	N.E.	N.E.	N.E.	N.E.	N.E.	No
Destilados (Petróleo), Fracción Nafténica Pesada Tratada Con Hidrógeno	64742-52-5	10-30	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Carbamida	57-13-6	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Etilen Glicol	107-21-1	1-5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	No
Dioxidodetitanio	13463-67-7	0.1-1.0	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
4-Vinilciclohexeno	100-40-3	<0.0006	0.1 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	No

Notas sobre la exposición:

Importante: Los niveles de exposición permitidos (PEL) señalados son suministrados por el Dept. del Trabajo de EE.UU., Límites de la norma final OSHA (CFR 29 1910.1000); Estos límites pueden variar de estado a estado.

Nota: Se debe evitar o reducir al máximo la exposición de la piel de un empleado a substancias que tengan "SÍ" en la columna "PIEL" en la tabla anterior, según lo permitan las circunstancias mediante el uso de guantes, ropa de protección, gafas de seguridad y otros equipos personales de protección, controles de ingeniería o prácticas de trabajo.

Sección 3 - Identificación de riesgos

Generalidades sobre las emergencias: Un blanco a la pasta de-blanco con un olor muy leve del amoniaco. ¡ADVERTENCIA! Puede causar irritación de las vías respiratorias. Dañino o fatal si se traga. Podría causar irritación de los ojos, piel, nariz, garganta y tracto respiratorio. Este producto contiene glicol de etileno.

Consulte otras secciones de la hoja de datos de seguridad de los materiales para más información detallada.

Efectos de la sobre exposición - Contacto visual: Podría causar irritación a los ojos.

Efectos de la sobre exposición - Contacto de la piel: Podría causar irritación de la piel.

Efectos de la sobre exposición - Inhalación: La inhalación puede causar irritación de las vías respiratorias (nariz, boca, membranas mucosas). Los vapores pueden irritar los ojos, la nariz, la garganta y los pulmones. Las exposiciones prolongadas, repetidas o elevadas pueden causar debilidad y depresión del sistema nervioso central.

Efectos de la sobre exposición - Ingestión: Si se ingiere, podría causar vómito, diarrea y respiración deprimida. La aspiración del material en los pulmones debido al vómito puede causar neumonitis química, lo que podría ser fatal.

Efectos de la sobre exposición - Riesgos crónicos: El glicol de etileno puede causar daño al riñón e hígado con la sobre exposición prolongada y repetida. Los estudios han demostrado que la inhalación repetida al glicol de etileno ha producido cambios cardiovasculares adversos en los animales de laboratorio. Se ha demostrado que el glicol de etileno causa defectos de nacimiento en animales de laboratorio. El contacto prolongado o repetido con la piel resulta en irritación y dermatitis.

Ruta(s) principal de entrada: Piel el Contacto, Pele la Absorción,Aspiración

Condiciones médicas que se pueden agravar a causa de la exposición: Ninguno conocido.

Sección 4 - Medidas de primeros auxilios

Primeros auxilios - Contacto visual: En caso de contacto, enjuague los ojos de inmediato con abundante agua por al menos 15 minutos. Obtenga atención médica de inmediato.

Primeros auxilios - Contacto de la piel: Lavar con agua y jabón.

Primeros auxilios - Inhalación: Si se inhala, salga al aire fresco. Si se dificulta la respiración, abandone el área para obtener aire fresco. Si se experimenta dificultad continua para respirar, busque atención médica de inmediato.

Primeros auxilios - Ingestión: Si se traga, NO PROVOQUE EL VÓMITO. Obtenga atención médica de inmediato.

Nota para el médico: Sin información

COMENTARIOS: Llame para emergencias médicas al 1-800-327-3874 si surgiera cualquier irritación o complicación de cualquiera de las rutas de entrada anteriores.

Sección 5 - Medidas para combatir incendios

Punto de inflamación, F: Más que 200 grados Fahrenheit
Método: (Seta Cerró Copa)

Límite explosivo menor, %: No Establecido

Límite explosivo mayor, %: No Establecido

Medios para extinguir: Bióxido de carbono, Seque Sustancia Química, Espuma

Riesgos inusuales de incendio y explosión: Ninguno conocido.

Procedimientos especiales para combatir incendios: Use un aparato para respiración auto-contenida con demanda de

presión (aprobado por el Instituto NIOSH o equivalente) y equipo completo de protección. Use rociador de agua para enfriar las superficies expuestas.

Sección 6 - Medidas en caso de emisión accidental

Pasos a seguir en el caso de emisión o derramamiento de materiales: Use el equipo de protección correcto según lo especifica la Sección 8. Moje el material seco antes de raspar y coloque en contenedores.

Sección 7 - Manejo y almacenamiento

Manejo: No respire los vapores. Suministre aire fresco de manera que los olores de los químicos no se puedan detectar durante el uso y mientras se seca. Usar en un área bien ventilada. Las actividades de construcción y de reparaciones pueden afectar de manera adversa la calidad del aire en interiores. Consulte con los ocupantes o un representante (es decir, mantenimiento, administrador de construcción, higienista industrial, u oficial de seguridad) para determinar las formas de reducir el impacto.

Lave a fondo después de manipular. No lije, barra en seco, raspe en seco, perfore, asierre, pula, corte mecánicamente, pulverice o una acción similar los revestimientos elásticos existentes, refuerzos, fieltro de forro, o adhesivos asfálticos "cut-back". Estos productos pueden contener ya sea fibras de asbestos o sílice cristalino. Evite crear polvo. La inhalación de este polvo es un riesgo de cáncer y de infección del tracto respiratorio. Consulte la edición actual de la publicación del Instituto Resilient Floor Covering: “Prácticas de trabajo recomendadas para retirar los revestimientos elásticos", para información e instrucciones detalladas para la tarea de retirar todos los materiales de revestimiento elástico. Evite el contacto con los ojos, la piel y la ropa.

Almacenamiento: Almacene los contenedores lejos del calor y congelamiento excesivos. Manténgase el recipiente bien cerrado. Almacene lejos de substancias cáusticas y oxidantes.

Sección 8 - Controles de la exposición/ Protección personal

Medidas de precaución: Refiérase por favor a otras secciones y subdivisiones de este MSDS.

Controles de ingeniería: Ofrezca ventilación de escape general y/o local suficiente para mantener la exposición debajo del límite recomendado. Utilícese solo en zonas bien ventiladas.

Protección respiratoria: Se debe seguir un programa de protección respiratoria que cumpla con los requisitos de OSHA 1910.134 y ANSI Z88.2 cada vez que las condiciones del lugar de trabajo exijan el uso de un respirador. No es de esperar que sea necesario usar un aparato de respiración bajo condiciones normales de manejo. En situaciones de emergencia, puede que se requiera el uso de un aparato de respiración aprobado por el NIOSH.

Protección de la piel: Usar guantes de goma.

Protección de la visión: Gafas de seguridad con protectores laterales.

Otro equipo de protección: Ninguno.

Prácticas higiénicas: No obstante este producto no se considera un irritante para los ojos, riesgo de inhalación o riesgo de contacto con la piel bajo condiciones normales, se recomienda que el personal reduzca el contacto con la piel, la inhalación de vapores y el contacto con los ojos. Quitar y lavar la ropa contaminada antes de reutilizar.

Sección 9 - Propiedades físicas y químicas

Rango de ebullición: No Establecido **Densidad del vapor:** No Establecido

Olor:	Amoniaco muy Leve	**Umbral de olor:**	No Establecido
Aspecto:	Blanco a De-Blanco	**Índice de evaporación:**	No Establecido
Solubilidad en H2O:	No Establecido	**Gravedad específica:**	1.202
Punto de congelamiento:	No Establecido	**pH:**	Entre 7,0 y 12,0
Presión del vapor:	No Establecido	**Viscosidad:**	No Establecido
Estado físico:	Pasta		

(Ver sección 16 para la leyenda de las abreviaturas)

Sección 10 - Estabilidad y reactividad

Condiciones a evitar: Calentamiento y congelamiento excesivos.

Incompatibilidad: agentes oxidantes fuertes bases fuertes

Productos de descomposición peligrosa: Productos de descomposición normal, es decir, COx, NOx.

Polimerización peligrosa: No ocurrirá polimerización peligrosa bajo condiciones normales.

Estabilidad: Estable en condiciones normales

Sección 11 - Información toxicológica

LD50 del producto: No Establecido **LC50 del producto:** No Establecido

CASRN	Nombre Químico	LD50	LC50	Peso%
57-13-6	Carbamida	Rat:8471 mg/kg	----------	1-5
107-21-1	Etilen Glicol	Rat:4700 mg/kg	Rat:10876 mg/kg	1-5
100-40-3	4-Vinilciclohexeno	16620 mg/kg	4000 ppm rat	<0.0006

Carcinogenicidad:

Número CAS	Nombre Químico	ACGIH	OSHA	IARC	NTP	Peso%
13463-67-7	Dioxidodetitanio	-----	-----	Clasificación no posible de datos actuales.	-----	0.1-1.0
100-40-3	4-Vinilciclohexeno	Cancerígeno animal confirmado con la aplicabilidad desconocida a humanos.	-----	Cancerígeno posible.	-----	<0.0006
14808-60-7	Silicecristalina	Cancerígeno humano sospechado.	-----	-----	Cancerígeno conocido.	<0.00001

Datos significativos con posible relevancia para los humanos: Ninguno

Sección 12 - Información ecológica

Información ecológica: No se conocen ni esperan daños ecológicos bajo uso normal.

Sección 13 - Información sobre desechos

Información sobre desechos: Deseche los materiales de acuerdo con todas las normas federales, estatales y locales. Las normas/ restricciones estatales y locales son complejas y pueden diferir de las normas federales. La responsabilidad de eliminar los desechos correctamente recae en el propietario de los desechos.

Código de desechos de EPA en caso de desecho (CFR 40 Sección 261): Ninguno

Sección 14 - Información sobre transporte

Nombre correcto para envío a DOT:	Ninguno	**Grupo de empaque:**	No Aplicable
Nombre técnico para DOT:	Ninguno	**Sub-clase de riesgo:**	No Aplicable
Clase de riesgo para DOT:	No Aplicable	**Número UN/NA para DOT:**	Ninguno

Nota: La información del envío proporcionada es aplicable para el transporte doméstico del suelo sólo. Categorización diferente puede aplicar si enviado vía otros modos del transporte y/o a destino no-domésticos.

Sección 15 - Información reglamentaria

Categoría de riesgo CERCLA - SARA:

Este producto ha sido revisado según las categorías de riesgo de EPA promulgadas según las secciones 311 y 312 de la Ley de enmienda y reautorización de fondos especiales de 1986 (SARA, por sus iniciales en inglés, Título III) y se considera, según las definiciones correspondientes, que cumple con las siguientes categorías:

Sección 313 de la ley SARA:

Este producto contiene las siguientes substancias sujeto a los requisitos de reporte de la sección 313 del título III de la ley SARA de 1986 y 40 CFR parte 372:

Nombre Químico	Número CAS	Peso%
Etilen Glicol	107-21-1	1-5

Ley para el control de substancias tóxicas:

Todos ingredientes en este producto son o en lista de inventario de TSCA, o de otro modo exima.

Este producto contiene las siguientes substancias químicas de acuerdo con los requisitos de reporte de la ley TSCA 12(B) si es exportado desde los Estados Unidos:

Nombre Químico	Número CAS
5-Chloro-2-Methyl-4-Isothazoli	26172-55-4
2-Methyl-4-Isothiazolin-3-One	2682-20-4

Regulaciones estatales de EE.UU.:

Ley del Derecho a saberde New Jersey:

Los siguientes materiales no representan peligro, pero están entre los primeros cinco componentes de este producto:

Nombre Químico	Número CAS	Peso%
Agua	7732-18-5	30-60
Hydrocarbon Petroleum Resin	Propietario	3-7
Copolymer De Estireno De Butadiene	Propietario	3-7

Ley del Derecho a saber de Pennsylvania:

Los siguientes ingredientes no peligrosos están presentes en el producto en una proporción mayor a 3%:

Nombre Químico	Número CAS	Peso%

Aqua	7732-18-5	30-60
Hydrocarbon Petroleum Resin	Propietario	3-7
Copolymer De Estireno De Butadiene	Propietario	3-7

Propuesta 65 de California:

Advertencia: Los siguientes ingredientes presentes en el producto son conocidos para el Estado de California por causar cáncer:

Nombre Químico	Número CAS	Definición	Fecha Listó	Peso%
4-Vinilciclohexeno	100-40-3	Cancerígeno.	Listed: May 1, 1996	<0.0006
Ester Etilico Del Acido 2-Propenoico	140-88-5	Cancerígeno.	Listed: July 1, 1989	<0.0001
Silicecristalina	14808-60-7	Cancerígeno.	Listed: October 1, 1988	<0.00001

Advertencia: Los siguientes ingredientes presentes en el producto son conocidos para el Estado de California por causar defectos de nacimiento u otros daños reproductivos:

Ninguno.

Sección 16 - Otra información

Índices HMIS:

Salud: 1 Inflamabilidad: 1 Reactividad: 0 Protección personal: X

COMPONENTES ORGÁNICOS VOLÁTILES, GR/LTR: 34.3 LB/GAL: 0.3 WT%: 1.557

RAZÓN DE LA REVISIÓN: Periódico Actualiza

Leyenda:

N.A. - No aplica
N.E. - No establecido
N.D. - No determinado
VOC - Componente orgánico volátil
PEL - Límites permitidos de exposición
TLV - Valor del límite umbral
STEL - Límite de exposición a corto plazo
LD50 - Dosis letal 50
HMIS - Sistema de identificación de materiales peligrosos
CASRN - Número de registro de servicios de abstractos químicos
ACGIH - Conferencia Americana de Higienistas Industriales gubernamentales
SARA - Ley Ley de enmienda y reautorización de fondos especiales de 1986 (SARA)
NJRTK - Ley del Derecho a saber de New Jersey
OSHA - Administración de la seguridad y salud ocupacional
C - Grados centígrados
NTP - Programa nacional de toxicología
CEIL - Límite máximo de exposición
LC50 - Concentración letal 50
MSDS - Hoja de datos de la seguridad de los materiales
F - Grados Fahrenheit

DAP cree que los datos y las declaraciones contenidos en el presente son exactos hasta la fecha. Se ofrecen de buena fe como valores típicos y no como las especificaciones del producto. **NO SE OFRECE NINGUNA GARANTÍA DE COMERCIABILIDAD, IDONEIDAD PARA UN PROPÓSITO EN PARTICULAR O CUALQUIER OTRA GARANTÍA, EXPRESA O IMPLÍCITA, CON RESPECTO A LA INFORMACIÓN SUMINISTRADA EN EL PRESENTE O DEL PRODUCTO AL CUAL LA INFORMACIÓN SE REFIERE.** Dado que este documento tiene la intención de ser una guía únicamente para el uso correcto y el manejo preventivo del producto de la referencia por parte de personas correctamente entrenadas, es responsabilidad del usuario (i) revisar las recomendaciones con especial consideración al contexto específico del uso que se pretende y (ii) determinar si son correctas.

<Final de la hoja de datos de la seguridad de los materiales>

Fiche signalétique

24 heures – Numéros de téléphone en cas d'urgence:

Urgence médicale: **1-800-327-3874**
1-513-558-5111

Urgence transport: **1-800-535-5053**
1-352-323-3500

NOTE: Les numéros de téléphone en cas d'urgence doivent être utilisés uniquement lors de déversement, de fuite, d'incendie, d'exposition ou d'accident impliquant des produits chimiques.

IMPORTANT: Lire attentivement cette fiche signalétique avant de manipuler ou de disposer de ce produit. Remettre ces informations aux employés, clients et utilisateurs de ce produit. Ce produit est régit sous la gouverne de l'OSHA, Communication de renseignements à l'égard de matières dangereuses, et ce document a été préparé pour répondre aux exigences de ces standards. Les significations pour toutes les abréviations utilisées dans cette fiche signalétique sont décrites à la Section 16.

Section 1 – Identification du produit et de la compagnie

This MSDS is offered in English upon request.
Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

Nom du produit: DAP WELDWOOD Multi-Purpose Floor Covering Adhesive

Date de révision: 03/07/2005

Numéro UPC: 7079800144, 7079800142, 7079800141, 7079800140, 7079872054, 7079872052, 7079872049

Date d'abrogation: 02/17/1999

Utilisation du produit/Classe: Latex Floor Covering Adhesive

Numéro de fiche: 00030807001

Fabricant:
DAP Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (Pour toute information non urgente)

Section 2 - Composition / Ingrédients dangereux

Nom Chimique	CASRN	Poids%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Peau
Kaolin	1332-58-7	15-40	2 MGM3	N.E.	N.E.	N.E.	N.E.	N.E.	Non
Distillat naphténique lourd hydrotraité	64742-52-5	10-30	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	Non
Urée	57-13-6	1-5	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	Non
Éthylène glycol	107-21-1	1-5	N.E.	N.E.	100 MGM3	N.E.	N.E.	N.E.	Non
Dioxyde de titane	13463-67-7	0.1-1.0	10 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	Non
4-Vinylcyclohexne	100-40-3	<0.0006	0.1 PPM	N.E.	N.E.	N.E.	N.E.	N.E.	Non

Notes concernant l'exposition:

Important: Les limites d'exposition permises (LEP) décrites proviennent du Department of Labor des États-Unis, règlement final concernant les valeurs d'exposition moyennes pondérées de l'OSHA
(CFR 29 1910.1000); ces limites peuvent varier selon les états.

Note: Prendre tous les moyens selon les circonstances afin de prévenir ou réduire toute exposition de la peau des employés aux substances portant la mention «OUI» dans la colonne «PEAU» du tableau ci-dessus. Utiliser des gants, une combinaison, des lunettes étanches, tout autre équipement de protection personnel adéquat, les contrôles techniques et les pratiques appropriées au type de travail.

Section 3 – Identification des dangers

Urgences générales: Un blanc à la pâte de-blanc avec une odeur d'ammoniaque très insignifiante. AVERTISSEMENT ! Peut provoquer une irritation des voies respiratoires. Nocif ou mortel si ingéré. Peut causer une irritation des yeux, de la peau, du nez, de la gorge et des voies respiratoires. Ce produit contient du glycol d'éthylène.

Consulter les autres sections de cette fiche signalétique pour des informations plus détaillées.

Effets de surexposition – Contact oculaire: Peut causer une irritation des yeux.

Effets de surexposition – Contact cutané: Peut causer une irritation de la peau.

Effets de surexposition – Inhalation: L'inhalation de ce produit peut provoquer l'irritation des voies respiratoires (nez, bouche, muqueuses). Les vapeurs peuvent être irritantes pour les yeux, le nez, la gorge et les poumons. L'exposition prolongée, ou répétée, ou à de fortes concentrations peut provoquer un affaiblissement et une dépression du système nerveux central.

Effets de surexposition – Ingestion: En cas d'ingestion, peut causer des vomissements, de la diarrhée et une diminution de la capacité pulmonaire. L'aspiration de matériau dans les poumons lors de vomissements peut causer une pneumonie chimique qui peut être mortelle.

Effets de surexposition – Dangers chroniques: Une exposition excessive et répétée à l'éthylène glycol peut causer des lésions aux reins et au foie. Les études en laboratoire menées sur des animaux ont démontré que l'inhalation répétée d'éthylène glycol cause des changements néfastes du système cardiovasculaire. Lors d'études en laboratoire sur les animaux, il a été démontré que l'éthylène glycol cause des anomalies congénitales. Un contact excessif et répété avec la peau peut causer une irritation ou une dermatite.

Voie(s) d'absorption: Peau le Contact, L'Absorption de peau, l'Inhalation

Problèmes médicaux aggravés lors d'exposition au produit : Aucune connue.

Section 4 – Premiers soins

Premiers soins – Contact oculaire: En cas de contact avec les yeux, rincer abondamment avec de l'eau pendant au moins 15 minutes. Obtenir des soins médicaux immédiatement.

Premiers soins – Contact cutané: Laver avec de l'eau et du savon.

Premiers soins – Inhalation: En cas d'inhalation, transporter la personne exposée à l'air frais. Si elle a de la difficulté à respirer, quitter les lieux afin d'obtenir de l'air frais. Si la difficulté à respirer persiste, obtenir des soins médicaux immédiatement.

Premiers soins – Ingestion: En cas d'ingestion, NE PAS FAIRE VOMIR. Obtenir des soins médicaux immédiatement.

Note au médecin: Pas d'information.

COMMENTAIRES: En cas d'apparition d'une irritation ou de complications suite à une exposition au produit, communiquer immédiatement avec l'urgence médicale au 1-800-327-3874.

Section 5 – Mesures de protection en cas d'incendie

Point d'éclair, ° F (° C): Plus grand que 200 degrés Fahrenheit
Méthode: (Seta A Fermé la Tasse)

Limite d'explosibilité inférieure, %: Pas Etabli

Limite d'explosibilité supérieure, %: Pas Etabli

Moyens d'extinction: Dioxyde de carbone, Sécher Chimique, Mousse

Risques particuliers d'explosions ou d'ignition: Aucun connu.

Procédures spéciales de lutte contre les incendies: Porter un respirateur autonome à pression d'air (approuvé NIOSH ou équivalent) et un équipement de protection personnel complet. Utiliser une lance-brouillard afin de refroidir les contenants exposés.

Section 6 – Mesures en cas de déversement accidentel

Procédures de nettoyage: Porter un équipement de protection personnel approprié tel que spécifié à la Section 8. Humidifier le matériau sec avant de le gratter puis disposer dans un contenant.

Section 7 – Manutention et entreposage

Manutention: Éviter de respirer les vapeurs. Assurer l'entrée d'air frais de façon à éliminer les odeurs des produits chimiques pendant l'utilisation et le temps de séchage. Utilisez dans un espace bien aéré. Les activités de construction et de réparation peuvent affecter la qualité de l'air à l'intérieur. Vérifier avec les occupants ou un de leurs représentants (responsable de maintenance, gérant d'édifice, hygiéniste industriel ou responsable de sécurité) afin de déterminer les façons appropriées pour en diminuer l'impact.

Laver vigoureusement après la manipulation. Ne pas poncer, balayer à sec, gratter à sec, percer, scier, utiliser un jet à billes, buriner et pulvériser mécaniquement ou à l'aide de tout autre outil les couvre-planchers élastiques, les supports, les blindages ou les adhésifs d'asphalte dilué existants. Ces produits peuvent contenir de l'amiante ou de la silice cristalline. Éviter de générer de la poussière. Éviter d'inhaler cette poussière, elle est cancérigène et dangereuse pour les voies respiratoires. Pour de plus amples informations concernant les pratiques d'enlèvement complet des couvre-planchers élastiques, consulter la récente édition du bulletin du Resilient Floor Covering Institute; "Le Travail recommandé Pratique pour l'Enlèvement de Couvertures de Plancher Elastiques". Éviter tout contact avec les yeux, la peau et les vêtements.

Entreposage: Entreposer les contenants loin de la chaleur excessive ou du froid excessif. Conserver le récipient bien fermé. Entreposer loin des produits caustiques et des agents oxydants.

Section 8 – Contrôles d'exposition / Protection personnelle

Mesures de précaution: S'il vous plaît se référer aux autres sections et aux autres sous-sections de ce MSDS.

Contrôles d'ingénierie: Faire fonctionner au maximum le système de ventilation central et/ou le système d'évacuation local afin de maintenir le niveau des vapeurs organiques sous les limites d'exposition recommandées. Utiliser seulement dans des zones bien ventilées.

Protection des voies respiratoires: Un programme de protection respiratoire défini selon les normes de l'OSHA 1910.134 et de l'ANSI Z88.2 doit être appliqué à chaque fois que les conditions sur les lieux de travail exigent de porter un respirateur. On ne s'attend pas à ce qu'un masque soit nécessaire dans les conditions normales de manipulation. En cas de situation d'urgence, un masque de type agréé par NIOSH peut être nécessaire.

Protection de la peau: Portez des gants en caoutchouc.

Protection des yeux: Lunettes étanches ou lunettes de sécurité avec boucliers latéraux.

Équipements de protection additionnels: Aucun.

Pratiques hygiéniques: Dans des conditions normales d'utilisation, même si ce produit n'est pas considéré ni un irritant pour les yeux, ni un danger en cas d'inhalation ou de contact avec la peau, il est recommandé que le personnel minimise les risques de contact avec les yeux et la peau et évite d'inhaler les vapeurs. Enlever et laver les vêtements contaminés avant réutilisation.

Section 9 – Propriétés physiques et chimiques

Point d'ébullition:	Pas Etabli	**Densité de vapeur:**	Pas Etabli
Odeur:	L'Ammoniaque très Insignifiante	**Limite de détection olfactive:**	Pas Etabli
Apparence:	Blanc à De-Blanc	**Taux d'évaporation:**	Pas Etabli
Solubilité dans l'eau (H_2O):	Pas Etabli	**Poids spécifique:**	1.202
Point de congélation:	Pas Etabli	**Taux de pH:**	Entre 7,0 et 12,0
Pression de vapeur:	Pas Etabli	**Viscosité:**	Pas Etabli
État physique:	Pâte		

(Consulter la Section 16 pour connaître la signification des abréviations))

Section 10 – Stabilité et réactivité

Conditions à éviter: Chaleur excessive ou froid excessif.

Incompatibilité: des oxydants forts des bases fortes

Produits de décomposition dangereux: Produits de décomposition habituels : oxydes de carbone (COx) et oxydes d'azote (NOx).

Risque de polymérisation: Aucune polymérisation dangereuse ne surviendra dans des conditions normales d'utilisation.

Stabilité: Stable dans des conditions normales

Section 11 – Propriétés toxicologiques

Produit DL50: Pas Etabli **Produit CL50:** Pas Etabli

CASRN	Nom Chimique	LD50	LC50	Poids%
57-13-6	Urée	Rat:8471 mg/kg	----------	1-5
107-21-1	Éthylène glycol	Rat:4700 mg/kg	Rat:10876 mg/kg	1-5
100-40-3	4-Vinylcyclohexne	16620 mg/kg	4000 ppm rat	<0.0006

Effets cancérigènes:

Numéro CAS	Nom Chimique	ACGIH	OSHA	IARC	NTP	Poids%
13463-67-7	Dioxyde de titane	-----	-----	Classification pas possible des données actuelles.	-----	0.1-1.0
100-40-3	4-Vinylcyclohexne	Confirmée cancérogène animale avec le pertinence inconnu aux humains.	-----	Cancérogène possible.	-----	<0.0006
14808-60-7	Silice cristalline	Présumée cancérogène humaine.	-----	-----	Cancérogène connue.	<0.00001

Données significatives possiblement pertinentes à l'humain: Aucun

Section 12 – Information écologique

Information écologique: Aucune dégradation de l'environnement n'est connue ou prévisible dans les conditions normales d'utilisation.

Section 13 – Information sur la mise au rebut

Information concernant la mise au rebut: Disposer de ce matériau en respectant les lois fédérales, provinciales et municipales. Les lois et restrictions provinciales et municipales sont complexes et peuvent différer des lois fédérales. La responsabilité de la disposition appropriée des déchets appartient au propriétaire des déchets.

Code de mise au rebut de l'Agence de protection de l'environnement (40 CFR Section 261): Aucun

Section 14 – Étiquetage selon le Ministère des Transports

Nom du produit expédié:	Aucun	**Groupe d'emballage:**	Pas Applicable
Nom technique:	Aucun	**Classe de transport:**	Pas Applicable
Classe de danger:	Pas Applicable	**Numéro UN/NA:**	Aucun

Note : L'information d'expédition fournie est applicable pour le transport de sol domestique seulement. La catégorisation différente peut s'appliquer si expédié via les autres modes de et/ou de transport aux destinations non résidentielles.

Section 15 – Information sur les règlements

CERCLA - Catégories de dangers selon le SARA:

Ce produit a été revu en conformité avec les «Catégories de dangers» établies par l'Agence de protection de l'environnement et promulguées aux Sections 311 et 312 du Superfund Amendment and Reauthorization Act de 1986 (SARA Titre III). Selon les définitions applicables, il est considéré répondre aux catégories suivantes :

SARA SECTION 313 :
Ce produit contient les substances suivantes assujetties aux normes de déclaration de la Section 313, du Titre III de la Superfund Amendments and Reauthorization Act de 1986 et du 40 CFR partie 372 :

Nom Chimique	Numéro CAS	Poids%
Éthylène glycol	107-21-1	1-5

LOI SUR LE CONTRÔLE DES SUBSTANCES TOXIQUES:

Tous ingrédients dans ce produit sont ou sur la liste d'inventaire de TSCA, ou autrement exempter.

Ce produit contient les substances chimiques suivantes à déclarer selon les normes TSCA 12(B) si exporté à l'extérieur des États-Unis:

Nom Chimique	Numéro CAS
5-Chloro-2-Methyl-4-Isothazoli	26172-55-4
2-Methyl-4-Isothiazolin-3-One	2682-20-4

Lois particulières selon les états aux États-Unis:

NEW JERSEY RIGHT-TO-KNOW :

Les substances suivantes sont non-dangereuses mais sont comptées parmi les 5 principaux ingrédients composant ce produit:

Nom Chimique	Numéro CAS	Poids%
Eau	7732-18-5	30-60
Hydrocarbon Petroleum Resin	De propriété	3-7
Copolymère de styrène et de butadiène	De propriété	3-7

PENSYLVANIA RIGHT-TO-KNOW:

Les substances suivantes sont non-dangereuses mais sont présentes à plus de 3% dans ce produit:

Nom Chimique	Numéro CAS	Poids%
Eau	7732-18-5	30-60
Hydrocarbon Petroleum Resin	De propriété	3-7
Copolymère de styrène et de butadiène	De propriété	3-7

PROPOSITION 65 DE CALIFORNIE:

AVERTISSEMENT ! Les produits chimiques listés ci-dessous et contenus dans ce produit sont reconnus par l'État de la Californie pour causer le cancer:

Nom Chimique	Numéro CAS	Définition	Dater Enuméré	Poids%
4-Vinylcyclohexne	100-40-3	Cancérogène.	Listed: May 1, 1996	<0.0006
Silice cristalline	14808-60-7	Cancérogène.	Listed: October 1, 1988	<0.00001

AVERTISSEMENT ! Les produits chimiques listés ci-dessous et contenus dans ce produit sont reconnus par l'État de la Californie pour causer le cancer, des anomalies congénitales ou d'autres problèmes reliés à la reproduction:
Aucun.

Section 16 – Autres informations

Classification des dangers:

Santé: 1 Inflammabilité: 1 Réactivité: 0 Protection personnelle: X

COMPOSÉ ORGANIQUE VOLATIL, G/LITRE: 34.3 LB/GALLON: 0.3 POIDS %: 1.557

RAISONS DE RÉVISION: Mise à jour périodique

Légende:

N.A. – Non applicable

N.É. – Non établi

N.D. – Non déterminé

VOC – Composé organique volatil

PEL – Limite d'exposition permise

TLV – Limite tolérable d'exposition

NTP – National Toxicology Program

STEL – Limite d'exposition à court terme

LD50 – Dose létale 50

CASRN – Numéro enregistré selon le Chemical Abstracts Service

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

ACGIH – American Conference of Governmental Industrial Hygienists

SARA – Superfund Amendments and Reauthorization Act de 1986

NJRTK – New Jersey Right-to-Know Law

OSHA – Occupational Safety and Health Administration

HMIS – Hazardous Materials Identification System

TWA – Valeur d'exposition moyenne pondérée

F – Degré Fahrenheit

C – Degré Celcius

LC50 – Concentration létale 50

DAP croit que les données et renseignements stipulés dans cette fiche signalétique sont précis à la date de rédaction de cette fiche. Ces données sont offertes en toute bonne foi et représente des valeurs standard sans toutefois être des spécifications du produit. **AUCUNE GARANTIE SUR LA QUALITÉ MARCHANDE, GARANTIE D'APTITUDE POUR AUCUN TYPE D'EMPLOI PARTICULIER OU TOUTE AUTRE FORME DE GARANTIE N'EST EXPRESSÉMENT OU IMPLICITEMENT OFFERTE EN REGARD DES INFORMATIONS FOURNIES DANS CETTE FICHE OU DES INFORMATIONS RELATIVES AU PRODUIT.** Cette fiche est produite uniquement à titre de guide pour les personnes formées à cet effet afin qu'elles puissent appliquer les procédures appropriées de manutention auxquelles le produit réfère. Toutefois, c'est la responsabilité chaque utilisateur de revoir les recommandations selon le contexte spécifique de l'utilisation prévue et de déterminer si ces procédures sont appropriées.

<Fin de la fiche signal étique>

MATERIAL SAFETY DATA SHEET

C-98
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

C-98

HMIS CODES

Health	1
Flammability	0
Reactivity	0

PRODUCT NAME

Multi-Purpose Floor Adhesive

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.

(216) 566-2917

DATE OF PREPARATION

19-APR-07

INFORMATION TELEPHONE NO.

(216) 566-2902

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
28	1332-58-7	Kaolin		
		ACGIH TLV	2	mg/m3 as Resp. Dust
		OSHA PEL	10	mg/m3 Total Dust
		OSHA PEL	5	mg/m3 Respirable Fraction

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Continued on page 2

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Not Applicable	N.A.	N.A.

FLAMMABILITY CLASSIFICATION

Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Continued on page 3

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Solvent resistant (B.F. Goodrich Holdfast No. 66 or equal)

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	10.10 lb/gal	1210 g/l
SPECIFIC GRAVITY	1.22	
BOILING POINT	212 - 213 F	100 - 100 C
MELTING POINT	Not Available	
VOLATILE VOLUME	38 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

0.00 lb/gal	0 g/l	Less Water and Federally Exempt Solvents
0.00 lb/gal	0 g/l	Emitted VOC

Continued on page 4

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

CAS No.	Ingredient Name				
1332-58-7	Kaolin				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)

Information is not Available

Canada (TDG)

Information is not Available

IMO

Information is not Available

Continued on page 5

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Product Name: *Ultrabond ECO™ 575*

Product Description: **Premium Cove Base Adhesive**

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT CONTACT THE FOLLOWING NUMBERS:

EMERGENCY 24 HOUR NUMBER (USA) CHEMTREC 1-800-424-9300 (Canada) CANUTEC 1-613-996-6666

CONSUMER STATEMENT:

CAUTION - EYE IRRITANT. NON-TOXIC.

WORK AND HYGIENE PRACTICE:

Remove contaminated clothing immediately. Wash hands, after each use and before eating, drinking, or using toiletries. Minimize contact of product on skins.

I - GENERAL INFORMATION

MANUFACTURER:

USA and Puerto Rico	Canada
MAPEI CORPORATION	MAPEI INC.
1144 East Newport Center Drive	2900 Francis-Hughes Avenue
Deerfield Beach, FL 33442	Laval, QC H7L 3J5
Ph: (954) 246-8888	Ph: (450) 662-1212

MSDS PREPARED BY:

Regulatory Affairs Department - MAPEI North America

REVISION DATE (YYYY/MM/DD): 2005/07/15

For most current MSDS, download document from: www.mapei.com

II - PHYSICAL CHARACTERISTICS

Calculated VOC (See below.)	**0 g/L**
Boiling Point	>212°F (>100°C)
Vapor Pressure (mmHg)	1,0
Vapor Density (AIR=1)	1,10 - 1,20
Specific Gravity (H20=1)	1,00 - 1,30
Melting/Freezing Point (F)	N/E
Evaporation Rate (Butyl Acetate=1)	Same as water.
Solubility in water	Soluble
pH (paste/liquid)	8,0 - 10,0
Appearance and Odor	Beige paste. Slight odor of latex.

(VOC per CA South Coast Air Quality Management District, Rule 1168)

III - HAZARD ASSESSMENT

Hazardous Components (specific chemical identity; common names):	OSHA (PEL)	ACGIH (TLV-TWA)	Other Limits Recommended	% Percent (Optional)

THIS PRODUCT CONTAINS NO HAZARDOUS INGREDIENTS AS DEFINED BY US OSHA HAZARD COMMUNICATION STANDARD - 29 CFR 1910.1200 OR SECTION 13 OF THE CANADIAN HAZARDOUS PRODUCTS ACT.

For California (Proposition 65): This product contains no chemicals reportable under Proposition 65.

All ingredients are listed within or exempted from US TSCA and Canadian DSL.

(USA) - HMIS (Hazardous Materials Identification System) Rating: Health - 1 Fire - 0 Reactivity - 0 Protection - B "*" = chronic effect

(Canada) - WHMIS (Workplace Hazardous Materials Information System) Classifications: Not regulated under WHMIS.

IV - TRANSPORTATION

By GROUND - USA and Puerto Rico (DOT):

Not Regulated

By GROUND - Canada (TDG):

Not Regulated

By SEA (IMDG):

Not Regulated

By AIR (IATA):

Not Regulated

V - FIRE AND EXPLOSION HAZARD DATA

Flash Point: >212°F (>100°C) Lower Explosive Limit (%) - N/E Upper Explosive Limit (%) - N/E

Unusual Fire and Explosion Hazards - Some decomposition products may be harmful.

Extinguishing Media:

Will not burn except under extreme temperatures. Water spray, carbon dioxide, dry chemical or foam.

Special Fire Fighting Procedures:

Wear standard fire fighting gear with self-contained breathing apparatus.

VI - REACTIVITY DATA

Stability: Stable **Conditions to Avoid:** None known.

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong acids, and strong bases.

Hazard Decomposition of By-products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified organic compounds.

Polymerization: Will Not Occur **Conditions to Avoid:** None known.

VII - HEALTH HAZARD DATA

Routes of entry during normal usage: Inhalation? YES Skin? YES Ingestion? NO

Health Hazards:

Acute: No effects are suspected under normal professional use.

Chronic: None known.

Carcinogenicity: NTP - NO IARC - NO OSHA - NO

Signs and Symptoms of Overexposure:

No effects are suspected under normal professional use.

Medical Conditions That Can Be Aggravated by Exposure:

Allergies, skin and respiratory disorders. Product sensitivity.

VIII - EMERGENCY AND FIRST AID PROCEDURE

Eyes: Flush with cool water for 15 minutes while holding eyelid open. If irritation persists, seek medical attention immediately.

Skin: Avoid contact with skin. Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek immediate medical attention.

Inhalation: Remove to fresh air if allowable concentrations of any of the hazardous ingredients are exceeded. If not breathing, trained personnel should initiate artificial respirations and immediate medical attention should be obtained.

Ingestion: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

IX - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken if Material is Leaked or Spilled:

Wear protective equipment. Contain by diking with inert absorbent materials and put into an approved waste container.

Waste Disposal Method: Dispose in accordance to local environmental regulation.

Precautions to be taken during Handling and Storage:

Keep container closed when not in use. Store at 60-95°F (15-35°C) and out of the sun. Use adequate ventilation to avoid breathing vapors when cover is removed.

Other Precautions: Avoid prolonged skins contact.

X - CONTROL MEASURES

Respiratory Protection:

If workplace exposure limit of product is exceeded, a NIOSH/MSHA approved air supplied respirator is required in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.

Ventilation: Local Exhaust - Use in WELL VENTILATED areas only. Mechanical - Use only intrinsically safe devices.
Special - N/A Other - N/A

Eye Protection: Safety glasses or goggles as necessary to prevent eye contact.

Protective Gloves: Impervious. (Nitrile, rubber, or better)

Other Protective Equipment: As needed to minimize contact with skin.

N/A="Not Applicable" N/E="Not Established"

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. MAPEI assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

BOSTIK FINDLEY

HAZARD RATINGS	HMIS
Health	1
Flammability	0
Reactivity	0
PPE	X

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product	**DP60776**
MSDS Name	D-650 CLEAR VCT ADH (EX LE-5000)
CAS #	Mixture
Product Use	DURABOND Flooring Adhesive
Generic Description	Rubber Emulsion
Manufacturer	BOSTIK FINDLEY, INC. 211 Boston Street Middleton , MA 01949 USA

24 Hour Emergency Assistance

Phone: 1-800-227-0332

General Assistance

Phone: 1-978-777-0100

MSDS Assistance

Phone: 1-978-777-0100

2 COMPOSITION / INFORMATION ON INGREDIENTS

No hazardous ingredients as per 29 CFR 1910.1200.

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Extended contact with this material may cause irritation to the skin, eyes, and mucous membranes.

POTENTIAL HEALTH EFFECTS

Skin Contact: Prolonged or repeated skin contact may cause irritation.

Eye Contact: May cause irritation with temporary redness with stinging and tearing.

Inhalation: This product is not expected to cause respiratory tract irritation under conditions of intended use.

Ingestion: Exposure is unlikely. This product can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

TARGET ORGANS

None known for product as a whole.

4 FIRST AID MEASURES

SKIN

Remove contaminated clothing to prevent further skin exposure and dispose of properly. In situations involving considerable skin contact, place the contaminated person in a deluge shower for at least 15 minutes. For minor exposures, wash thoroughly with soap and clean water. Get medical attention if irritation persists.

EYE

Immediately flush with plenty of water for at least 15 minutes, holding eyelids open at all times. Get medical attention immediately.

INHALATION

Not normally required. Remove to fresh air. Get medical attention if cough or other symptoms develop.

INGESTION

No harmful effect is anticipated. If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.

NOTES TO PHYSICIAN

None

5 FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS

Decomposition can produce hazardous chemicals. Carbon monoxide, carbon dioxide, and other unknown products may be produced during combustion.

EXTINGUISHING MEDIA

This product is a water dispersion and as such will not burn until all water has boiled away. Residual solid and container can support combustion. Use dry chemical, carbon dioxide, water spray, or foam.

DUST EXPLOSION HAZARD

None Known

SENSITIVITY TO MECHANICAL IMPACT

None Known

SENSITIVITY TO STATIC DISCHARGE

None Known

UNUSUAL FIRE & EXPLOSION HAZARDS

During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS

Firefighters should wear full protective clothing including self contained breathing apparatus.

Flash Point > 200 F (> 93 C)

6 ACCIDENTAL RELEASE MEASURES

EMERGENCY ACTION

Appropriate safety measures and protective equipment should be used. See Section 8. Do not discharge to lakes, streams, ponds, or sewers. Dispose of in compliance with local, state, and federal regulations.

CLEAN-UP PROCEDURES

Scrape up the spilled material. Put material in suitable, covered, labeled containers. Wash site of spill with strong soap solution.

7 HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

HANDLING

Wash hands thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, face shields, and gloves. Professionally launder contaminated clothing before re-use.

STORAGE

Keep material from freezing. Store under normal working temperatures in a well-ventilated area. Do not pressurize drums. Avoid contact with any copper or brass.

EMPTY CONTAINER PRECAUTION

Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

Local exhaust ventilation is recommended when vapors, mists, or dusts can be released.

EYE PROTECTION: PERSONAL PROTECTION EQUIPMENT (PPE)

Wear goggles or safety glasses with side shields.

SKIN PROTECTION: PERSONAL PROTECTION EQUIPMENT (PPE)

Wear protective impervious gloves to minimize skin exposure.

RESPIRATORY PROTECTION: PERSONAL PROTECTION EQUIPMENT (PPE)

None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

GENERAL

Eyewash fountains and emergency showers should be readily available.

9 PHYSICAL & CHEMICAL PROPERTIES

Boiling Point	212 F (100 C)
Solubility In Water	Disperses in Water
Freezing Point	32 F (0 C)
Density	1.028 g/cc
Odor Threshold	NA
Octanol/Water Coefficient	NA
Odor	Mild
Color	Clear
Physical State	Paste
Freeze Protect	No

10 STABILITY & REACTIVITY

STABILITY/INCOMPATABILITY

Stable under normal conditions. Coagulation may occur following freezing, thawing, or boiling. Avoid water, amines, strong bases, alcohols and metallics hydrides.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS

If product is burned carbon monoxide, carbon dioxide, and other unknown products may be produced.

HAZARDOUS POLYMERIZATION

Will not occur.

CONDITIONS TO AVOID

None.

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA

If any toxicological data is available, it will be listed below:

CARCINOGENICITY

No regulated ingredients.

12 ECOLOGICAL INFORMATION

VOC (Volatile Organic Compounds) 0 g/l

ECOTOXICOLOGICAL INFORMATION

No data available for this product.

13 DISPOSAL CONSIDERATIONS

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

WASTE DISPOSAL

This product as supplied is not considered a hazardous waste under RCRA. Liquid adhesive should not be disposed of in a landfill. Do not discharge to streams, lakes, ponds, or sewers. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local, and state laws.

14 TRANSPORT INFORMATION

Proper Shipping Name	Non-Regulated
Hazard Class	Not Applicable

15 REGULATORY INFORMATION

All components are on the U.S. EPA TSCA Inventory List.

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

STATE REGULATIONS

If this product contains any ingredients listed under California Proposition 65, they will be noted below:

California - Prop. 65 - Cancer list

1,3-BUTADIENE	106-99-0	carcinogen; initial date 4/1/88
1,4-DIOXANE	123-91-1	carcinogen; initial date 1/1/88
SILICA, QUARTZ	14808-60-7	carcinogen (airborne particles of respirable size); initial date 10/1/88

INTERNATIONAL REGULATIONS

This is not a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES

Not Regulated

SARA 311/312 HAZARD CATEGORIES

Immediate Hazard	No
Delayed Hazard	No
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

SARA 313 TOXIC CHEMICALS

Not Regulated

16 OTHER INFORMATION

DISCLAIMER

The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik Findley, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Issue Date 01-Jul-2002 **Supercedes** 11-Feb-2002

Prepared By Aurora Flores

MSDS Sections Reviewed and/or Updated

Chemical Product & Company Identification: Product & Company Identification

MSDS
Material Safety Data Sheet

456
TYPE I
DUAL PURPOSE FLOOR AND WALL CERAMIC MASTIC

I. PRODUCT IDENTIFICATION

Number: 456
Name: APAC Type I Dual Purpose Floor and Wall Ceramic Mastic
Class: Acrylic Emulsion Latex Adhesive
Emergency Telephone CHEMTREC: 800-424-9300

II. HMIS *(0 = minimal hazard; 4 = severe)*

Health = 1 Flammability = 0 Reactivity = 0
Pers. Prot. Equip: B

III. HAZARDOUS INGREDIENTS

Ingredient (CAS #)	Percent:	Occ. Exp. Lmt. PEL	TLV	Units
Mineral Spirits (8052-41-3)	< 4%	100	100	ppm

IV. PHYSICAL DATA

BOILING RANGE: 212˚F. VAPOR PRESSURE: heavier than air. EVAPORATION RATE: slower than ether. WT/GAL.: 12.85 lbs. VOC: 56 gram/liter wet; 35 gram/liter dry coating solids. Percent Solids: 70.5% Non-Photochemically Reactive.

V. FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Non-flammable. FLASH POINT: > 140˚F. EXTINGUISHING MEDIA: Does not support combustion in wet state. EXTINGUISHING MEDIA: For dry adhesive – Foam, CO2, Dry Chemical, Water Fog. UNUSUAL FIRE AND EXPLOSION HAZARDS: none. SPECIAL FIRE FIGHTING PROCEDURES: Self contained positive pressure breathing apparatus.

VI. HEALTH HAZARD DATA

Product not considered carcinogenic by NPT, IARC, or OSHA. EFFECTS OF OVEREXPOSURE: May cause irritation to eyes, skin, and respiratory tract if inhaled. Ingestion: Ethylene Glycol can cause gastrointestinal distress, nausea, vomiting, diarrhea, and in sufficient quantities death. PRIMARY ROUTES OF ENTRY: inhalation and ingestion. MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: none know. EMERGENCY FIRST AID PROCEDURES: Eye Contact – flush eye with water for 15 minutes. Skin Contact – wash thoroughly with soap and water. Inhalation – remove to fresh air, give oxygen. Contact physician or poison control center immediately. Ingestion – if swallowed, DO NOT induce vomiting.

VII. REACTIVITY DATA

STABILITY: Stable. CONDITION TO AVOID: Excessive heat or freezing temperatures. INCOMPATIBILITY: (Materials to avoid) Strong oxidizers, acids, and alkalis.

VIII. SPILL OR LEAK PROCEDURES

SPILLS: Scrape up excess and place in DOT approved container. Remove to safe place where material can dry. WASTE DISPOSAL METHOD: Dispose of as per local, state and federal regulations. Do not flush adhesive down drains.

IX. SPECIAL PROTECTION INFORMATION:

VENTILATION: Use with adequate ventilation. Open doors and windows to create cross ventilation during use and until adhesive dries. PROTECTIVE GLOVES: Use chemical-resistant gloves if needed to avoid repeated or prolonged skin contact. EYE PROTECTION: Use splash goggles or face shield when eye contact may occur. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None required. WORK / HYGIENIC PRACTICES: Thorough washing of the skin with soap and water.

IX. SPECIAL PRECAUTIONS:

HANDLING AND STORING: Avoid extreme heat or cold. OTHER PRECAUTIONS: Keep out of reach of children. Use only as directed on label. Close container after each use. Do not reuse container. Avoid skin and eye contact.

X. TRANSPORTATION DATA

D.O.T.: unregulated
SHIPPING NAME: Adhesive

APAC believes that data set forth herein is accurate as of the date hereof, and makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

N/A not applicable or not available
N/K none known or not known

APAC
www.apacadhesives.com

02-23-05

All Purpose Adhesive Company • 2424 Lakeland Road • Dalton, GA 30721 • 800-747-APAC • Fax: 706-277-4157

MATERIAL SAFETY DATA SHEET

Date Prepared: September 29, 2005

1. PRODUCT/COMPANY IDENTIFICATION

Product Name:
Bonsal ® Superior Unsanded Tile Grout
(Various Colors)

Emergency Telephone:
800-424-9300 (Chemtrec) or
703-527-3887 (Outside USA)

Manufacturer's Name & Address:
Bonsal American/ an Oldcastle Company
8201 Arrowridge Blvd.
Charlotte, NC 28273

Telephone Number for Information:
704-525-1621

2. EMERGENCY AND FIRST AID

EMERGENCY INFORMATION:	Bonsal® Superior Unsanded Tile Grout is a cementitious powder blend. When in contact with moisture in eyes or on skin, or when mixed with water, it becomes highly caustic (pH > 12) and will damage or burn (as severely as third-degree) the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 12.
EYES:	Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.
SKIN:	Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.
INHALATION:	Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of Bonsal ® Superior Unsanded Tile Grout require immediate medical attention.
INGESTION:	Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

3. COMPOSITION INFORMATION

DESCRIPTION: This product consists of a heterogeneous mixture of hydraulic cement and sand. The major compounds are:

$3CaO•SiO_2$	Tricalcium Silicate	CAS #12168-85-3
$2CaO•SiO_2$	Dicalcium Silicate	CAS #10034-77-2
$3CaO•Al_2O_3$	Tricalcium Aluminate	CAS #12042-78-3
$4CaO•Al_2O_3•Fe_2O_3$	Tetracalcium aluminoferrite	CAS #12068-35-8
$CaSO_4•2H_2O$	Calcium Sulfate dihydrate (Gypsum)	CAS #7778-18-9 (CAS #13397-24-5)
SiO_2	Silica Sand	CAS #14808-60-7

4. HAZARDOUS INGREDIENTS

COMPONENT	OSHA PEL	ACGIH TLV-TWA	NIOSH REL
Hydraulic Cement	5 mg respirable dust/m^3 15 mg total dust/m^3	10 mg total dust/m^3	
Calcium sulfate (CAS #7778-18-9) [Gypsum (CAS #13397-24-5)]	5 mg respirable dust/m^3 15 mg total dust/m^3	10 mg total dust/m^3	
Iron oxide , **Mineral Oxides, and/or Carbon Black**	_____	0.5 mg/m^3	
Calcium carbonate (CAS #1317-65-3)	5 mg respirable dust/m^3 15 mg total dust/m^3	10 mg total dust/m^3	
Magnesium oxide (CAS #1309-48-4)	15 mg total dust/m^3	10 mg total dust/m^3	
Calcium oxide (CAS #1306-78-8)	5 mg/m^3	2 mg/m^3	
Crystalline silica (CAS #14808-60-7)	10 mg of respirable dust/m^3 % SiO_2 + 2	0.5 mg respirable quartz/m^3	0.05 mg respirable quartz dust/m^3

TRACE INGREDIENTS:

Due to the use of substances mined from the earth's crust, trace amounts of naturally occurring, potentially harmful constituents may be detected during chemical analysis.

5. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

NOTE: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in Section 12.

EYE CONTACT:

(Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea. Eye contact by larger amounts of dry powder or splashes of wet Unsanded Tile Grout may cause effects ranging from moderate eye irritation to chemical burns and blindness.

SKIN CONTACT:

(Acute) Exposure to dry Bonsal® Superior Unsanded Tile Grout may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure.

(Chronic) Dry Bonsal® Superior Unsanded Tile Grout coming in contact with wet skin or exposure to wet Unsanded Tile Grout may cause more severe skin effects, including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns.

(Acute/Chronic) Some individuals may exhibit an allergic response upon exposure to Bonsal® Superior Unsanded Tile Grout . The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.

INHALATION:

(Acute) Exposure to Bonsal® Superior Unsanded Tile Grout may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system. Pre-existing upper respiratory and lung diseases may be aggravated by inhalation.

(Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

INGESTION:

(Acute/Chronic) Internal discomfort or ill effects are possible if large quantities are swallowed.

CARCINOGENIC POTENTIAL:

Bonsal® Superior Unsanded Tile Grout is not recognized as a carcinogen by NTP, OSHA, or IARC. However, it may contain trace amounts of heavy metals recognized as carcinogens by these organizations. In addition, it also contains crystalline silica which IARC classifies as a known human carcinogen (Group I). The NTP, in it's ninth Annual Report on Carcinogens, classified "silica, crystalline (respirable)" as a known carcinogen. (See also Sections 4 and 12.)

6. ACCIDENTAL RELEASE MEASURES

Contain material to prevent contamination of soil, surface water or ground water. Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate labeled container for disposal or use. Avoid inhalation of dust and contact with skin and eyes. Use exposure control and personal protection methods as described in Section 12.

7. PHYSICAL/CHEMICAL DATA

APPEARANCE/ODOR:	Gray, odorless	**PHYSICAL STATE:**	Solid (Powder mixed with sand.)
BOILING POINT:	> 1000°C	**MELTING POINT:**	> 1000°C
VAPOR PRESSURE:	Not applicable	**VAPOR DENSITY:**	Not applicable
pH (IN WATER) (ASTM D 1293-95)	12 to 13	**SOLUBILITY IN WATER:**	Slightly soluble (0.1% to 1.0%)
SPECIFIC GRAVITY (H_2O = 1.0):	2.5 – 2.8	**EVAPORATION RATE:**	None

8. FIRE AND EXPLOSION

FLASH POINT:	None	**LOWER EXPLOSIVE LIMIT:**	None
AUTO IGNITION TEMPERATURE:	Not combustible	**UPPER EXPLOSIVE LIMIT:**	None
FLAMMABLE LIMITS	Not applicable	**SPECIAL FIRE FIGHTING PROCEDURES:**	None
EXTINGUISHING MEDIA:	Not combustible	**UNUSUAL FIRE AND EXPLOSION HAZARDS:**	None
HAZARDOUS COMBUSTION PRODUCTS:	None		

9. STABILITY AND REACTIVITY DATA

STABILITY:	Product is stable. Keep dry until used.
CONDITIONS TO AVOID:	Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.
INCOMPATIBILITY:	Wet Unsanded Tile Grout is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.
HAZARDOUS DECOMPOSITION:	Will not occur.
HAZARDOUS POLYMERIZATION:	Will not occur.

10. PRECAUTIONS FOR HANDLING AND STORAGE

HANDLING AND STORAGE

Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section 12.

11. TOXICOLOGICAL INFORMATION

See Section 5 for Hazard Identification. No recognized unusual toxicity to plants and animals.

Conditions aggravated by exposure: Eye disease, Skin disorders and Chronic Respiratory conditions.

12. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air.

If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.

EYE PROTECTION:

Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environments and unpredictable environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products.

SKIN PROTECTION:

Wear impervious abrasion- and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with dry Unsanded Tile Grout or clothing dampened with moisture mixed with Unsanded Tile Grout, and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

13. DISPOSAL CONSIDERATIONS

DISPOSAL:

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

IF THIS MATERIAL AS PACKAGED, BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA FOR A HAZARDOUS WASTE AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY UNDER THE AUTHORITY OF THE RESOURCE CONSERVATION AND RECOVER ACT (40CFR 261), DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Comply with all applicable local, state and federal regulations for disposal of unusable or contaminated materials. Dispose of packaging/containers according to local, state and federal regulations.

14. TRANSPORTATION DATA

Bonsal® Superior Unsanded Tile Grout is not hazardous under U.S. DOT or TDG regulations.

15. OTHER REGULATORY INFORMATION

Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:	Bonsal® Superior Unsanded Tile Grout is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.
Status under CERCLA/Superfund, 40 CFR 117 and 302:	Not listed.
Hazard Category under SARA (Title III), Sections 311 and 312:	Bonsal® Superior Unsanded Tile Grout qualifies as a hazardous substance with delayed health effects.
Status under SARA (Title III), Section 313:	Not subject to reporting requirements under Section 313.
Status under TSCA (as of May 1997):	Some substances in Bonsal® Superior Unsanded Tile Grout are on the TSCA inventory list.
Status under the Federal Hazardous Substances Act:	Bonsal® Superior Unsanded Tile Grout is a hazardous substance subject to statutes promulgated under the subject act.
Status under California Proposition 65:	This product contains crystalline silica, a substance known to the State of California to cause cancer. This product also may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects or other reproductive harm.
Status under Canadian Environmental Protection Act:	Not listed.
Status under Canadian WHMIS:	Bonsal® Superior Unsanded Tile Grout is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A, E - Corrosive Material) and subject to the requirements of WHMIS.

16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. It is the user's obligation to determine the conditions of safe use of this product.