Uline Inc.

PVC Films and Blends

Manufacturer MSDS Number: 5142

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: PVC Films and Blends

Distributor Name: Uline Inc.

Distributor Address:

2200 S. Lakeside Drive Waukegan, IL 60085

Distributor Telephone: 1–800–295–5510

For information in North America, call: 1-800-295-5510

Manufacturer MSDS Revision Date: March 28, 2002 Revision: 1.0000

General Use:

Shrink Film

Other Designations:

Reynolon industrial packaging film blends, including series: 1000, 1100, 2000, 2100, 2200, 2300, 2400, 2500, 3000, 3100, 5000, 5100, 5200, 5300, 5400, 5500, 5900, 7000, 7100, 7200, 7300, 7400, 7500, 8000, 8100, 9000, 9100, 9800, and all X number films

Product Codes:S-562, S-563, S-573, S-628, S-1390, S-3817, S-2072, S-2073, S-1391, S-1392, S-1393, S-2497, S-1394, S-3558,

S-3559, S-2690, S-2691, S-2692, S-2693, S-3560, S-3561, S-570, S-676, S-669, S-5025, S-572, S-1395, S-2498, S-3818

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS				
Chemical Name	CAS#	. Percent		
Polyvinyl chloride resin	9002–86–2	70–81%		
Chemical Name	CAS#	Percent		
Plasticizers	Proprietary	0–30%		
Chemical Name	CAS#	Percent		
Impact modifiers	Proprietary	0–11%		
Chemical Name	CAS#	Percent		
Surfactants	Proprietary	0-4%		
Chemical Name	CAS#	Percent		
Lubricants	Proprietary	0-3%		
Chemical Name	CAS#	Percent		
Processing Aids	Proprietary	0–2%		

Chemical Name Stabilizers	CAS# Proprietary	Percent 0–2%	

Composition/Information:

Component Information: Additional compounds which can be formed during combustion/decomposition are listed in Section 8.

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview:

Dust clouds generated during processing may be explosive. Dust clouds generated during processing may be explosive. This material burns vigorously and releases a dense, black, toxic smoke.

Dust and fume from processing can cause irritation of eyes, skin and upper respiratory tract; Combustion can generate toxic and irritating hydrogen chloride gas. Contact with material can cause thermal burns.

Physical State:

Clear, solid flexible plastic film, or solid pellets to powder.

Color: White

Odor: Plastic odor.

Applies to All Ingredients:

Potential Health Effects:

Health Effects Of Additional Compounds Which May Be Formed During Processing: Combustion product may include: Hydrogen chloride gas Can cause severe irritation and corrosive burns of eyes, skin and upper respiratory tract. Acute overexposure: Can cause fluid in the lungs (Pulmonary edema).

If dusts or fumes are generated by processing:

Eye Contact:

Can cause irritation

Skin Contact:

Can cause irritation. Contact with material can cause molten thermal burns.

Inhalation:

Can cause irritation of respiratory tract.

Aggravation of Pre-Existing Conditions:

Asthma, chronic lung disease, and skin rashes.

SECTION 4 : FIRST AID MEASURES

Eye Contact: Flush eyes with plenty of water or saline for at least 15 minutes. Consult a physician. Skin Contact: Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists. If molten material gets on skin, cool rapidly with cold water. Do not attempt to peel material from skin. Get medical treatment for thermal burn. Inhalation: Remove to fresh air. If unconscious or severely injured, check for clear airway, breathing and presence of

pulse. Perform CPR if there is no pulse or respiration. Consult a physician.

Fire:

Flammable properties:

Dust clouds generated during processing may be explosive. This material burns vigorously and releases a dense black, toxic smoke.

Fire/Explosion:

Dust or fines dispersed in the air can be explosive.

Extinguishing Media:

Use dry chemical, water spray (fog), foam or carbon dioxide extinguishing agents. Manual fire fighting may be difficult due to the presence of thick smoke.

Fire Fighting Instructions:

Fire fighters should wear NIOSH approved, positive pressure, self–contained breathing apparatus and full protective clothing when appropriate.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures:

Use dry cleaning procedures. Recover using mechanical means.

SECTION 7 : HANDLING and STORAGE

Handling:

Good housekeeping practices should be employed. Avoid generating dust.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use with adequate ventilation. If decomposition occurs: Use with adequate ventilation to meet the specified listed in section 8, Exposure Guidelines.

Skin Protection Description:

Wear appropriate gloves to avoid and skin injury.

Eye/Face Protection:

Wear safety glasses/goggles to avoid eye contact.

Respiratory Protection:

If dust generation or decomposition occurs: Use NIOSH – approved respiratory as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed in Section 8. Exposure Guidelines. Suggested respiratory protection: N95, fit testing must be completed prior to respirator use. Use acid/gas cartridge if hydrogen chloride gas is generated.

Exposure Limits:

General Product Information: The ACGIH and OSHA have not developed exposure limits for this product.

Additional Compounds Which May be Formed During Processing Chemical Name: Hydrogen Chloride CAS No: 7647–01–0 ACGIH: 5 ppm Ceiling OSHA: 5 ppm Ceiling; 7 mg/m3 Ceiling.

Ingredient Guidelines

Ingredient: Lubricants

Guideline Type:	ACGIH TLV-TWA		
Guideline Information:	2 mg/m3 (respirable fraction)		
Guideline Type:	OSHA PEL-TWA		
Guideline Information:	20 mppcf		
Ingredient: Processing Aids			
Guideline Type:	OSHA PEL-TWA		
Guideline Information:	15 mg/m3 (total dust); 5 mg/m3 (respirable fraction)		
Ingredient: Stabilizers			
Guideline Type:	ACGIH TLV-TWA		
Guideline Information:	2 mg/m3 (inhalable fraction, vapor and aerosol)		

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:

Clear film or white pellets to powder

Odor:

Plastic odor

Physical State:

Solid film, pellets or powder

pH:

Not Applicable

Vapor Pressure:

Not Applicable

Vapor Density:

Not Applicable

Boiling Point:

Not Applicable

Melting Point:

Not Determined

Solubility:

In Water: Insoluble

Specific Gravity:

Not Determined

Density:

Not Determined

Odor Threshold:

Not Determined

Coefficient of Water/Oil Distribution:

Not Applicable

SECTION 10 : STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal conditions of use. Storage, and transportation.

Conditions to Avoid:

Strong oxidizers, amines and acetal or acetal copolymers

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, ammonia and partially oxidized hydrocarbons

SECTION 11 : TOXICOLOGICAL INFORMATION

Applies to all ingredients:

Acute Health Effects:

General Product Information: No information available for product.

Carcinogenicity:

General Product Information: No information available for product.

Polyvinyl chloride resin:

Carcinogenicity:

IARC Supplement 7, 1987; Monograph 19, 1979

Plasticizers:

Ingestion Effects:

Oral: LD50 Rat: 40 gm/kg

Lubricants:

Carcinogenicity:

ACGIH: A4 = Not Classifiable as Human Carcinogen (Containing no asbestos fibers) IARC: Supplement 7, 1987 Monograph: 42, 1987

Processing Aids:

Ingestion Effects:

Oral LD50 Rat: > 10 mg/kg Oral LD50 Mouse: > 10 gm/kg

Stabilizers:

Ingestion Effects:

Oral LD50 Rat: 890 mg/kg Oral LD50 Mouse: 650 mg/kg

Carcinogenicity:

ACGIH: A4 – Not Classifiable as a Human Carcinogen IARC: Supplement 7, 1987 Monograph: 40, 1986

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

General Product Information: No information available for product.

Component Analysis: Stabilizers (Proprietary) LC50 (48 hr) Killifish: 2.5 mg/L EC50 (5,15,30 min) Photobacterium phosphoreum: 7.82–8.98 mg/L 15 deg C.

Environmental Fate:

No information available for product.

Effect of Material On Aquatic Life:

Component Analysis – Aquatic Toxicity: Stabilizers (Proprietary) LC50 (48 hr) Killifish: 2.5 mg/L EC50 (5,15,30 min) Photobacterium phosphoreum: 7.82–8.98 mg/L 15 deg C.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Reuse or recycle material whenever possible. Material may be disposed of at a sanitary landfill.

EPA Waste Number:

General Product Information: Not federally regulated in the U.S. if disposed of "as is" Otherwise, characterize in accordance with applicable regulations (40 CFR 261 or state equivalent in the U.S.)

Component Waste Numbers:

RCRA waste codes other than described under Section A may apply depending on use of product. Refer to 40 CFR 261 or state equivalent in the U.S.

SECTION 14 : TRANSPORT INFORMATION

Transportation Information:

Special Transportation: PSN #1: Notes: (1) Proper Shipping Name: Not Regulated

Canadian TDG: PIN: Not regulated

Canadian Hazard Class: Not regulated

Notes:

(1) When "Not regulated," enter the proper freight classification, "MSDS Number," and "Product Name" on the shipping paperwork.

Applies to All Ingredients:

SARA:

Component Analysis: None of the components are listed under SARA Section 302 (40 CFR 355 Appendix A). SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Section 312 Hazard Category:

SARA 311/312 Physical and Health Hazard Categories:

Acute: No

Chronic: No

Fire: No

Reactive: No

Pressure: No

US Federal:

General Product Information: No information available for product.

State:

General Product Information: No information available for product.

Regulatory Paragraph:

General Product Information: No information available for product.

Polyvinyl chloride resin:

TSCA 8(b): Inventory Status (Yes/No): Yes

Canada DSL: Yes

European Community Chemical Inventory Status (Yes/No): No

Japan MITI:

Yes

Australia Chemical Inventory Status (Yes/No): Yes

Plasticizers:

TSCA 8(b): Inventory Status (Yes/No): Yes

Canada DSL: Yes

European Community Chemical Inventory Status (Yes/No): Yes

Japan MITI:

Yes

Australia Chemical Inventory Status (Yes/No): Yes

Impact modifiers:

TSCA 8(b): Inventory Status (Yes/No): Yes

Canada DSL: Yes

European Community Chemical Inventory Status (Yes/No): No

Japan MITI:

No

Australia Chemical Inventory Status (Yes/No): Yes

Surfactants:

TSCA 8(b): Inventory Status (Yes/No): Yes

Canada DSL: Yes

European Community Chemical Inventory Status (Yes/No): No

Japan MITI:

No

Australia Chemical Inventory Status (Yes/No): Yes

Lubricants:

TSCA 8(b): Inventory Status (Yes/No): Yes

State:

The following components appear on one or more of the following state hazardous substances lists: Component: Lubricants Cas #: Proprietary

CA: Yes FL: Yes MA: Yes MN: Yes NJ: Yes PA: Yes

Canada DSL: Yes

European Community Chemical Inventory Status (Yes/No): Yes

Japan MITI:

No

Australia Chemical Inventory Status (Yes/No): Yes

Processing Aids:

TSCA 8(b): Inventory Status (Yes/No): Yes

State:

The following components appear on one or more of the following state hazardous substances lists: Component: Processing Aids Cas #: Proprietary

CA: No FL: No MA: Yes MN: Yes NJ: No PA: Yes

Canada WHMIS:

WHMIS IDL:

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component: Processing Aids Cas #: Proprietary

Minimum Concentration: 1%; English Item 1725; French Item 1504

Canada DSL: Yes

European Community Chemical Inventory Status (Yes/No): Yes

Japan MITI:

Yes

Australia Chemical Inventory Status (Yes/No): Yes

Stabilizers:

TSCA 8(b): Inventory Status (Yes/No): Yes

State:

The following components appear on one or more of the following state hazardous substances lists: Component: Stabilizers Cas #: Proprietary

CA: Yes

FL: Yes MA: Yes MN: Yes NJ: Yes PA: Yes

Canada WHMIS:

WHMIS IDL:

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component: Stabilizers Cas #: Proprietary

Minimum Concentration: 1%; English Item 238; French Item 1007

Canada DSL: Yes

European Community Chemical Inventory Status (Yes/No): Yes

Japan MITI:

Yes

Australia Chemical Inventory Status (Yes/No): Yes

SECTION 16 : ADDITIONAL INFORMATION

Label Hazard Warning:

CAUTION:

Hazards:

Dust and fines dispersed in the air may be explosive. Material burns vigorously and can release dense, black, toxic smoke. Dust or fumes from processing can cause irritation of the eyes, skin and upper respiratory tract.

Can generate irritating and toxic hydrogen chloride gas if heated to decomposition. Hydrogen chloride can cause irritation of the eyes, skin and upper respiratory tract. Overexposure can result in fluid in the lungs.

Direct skin or eye contact with heated or molten material can cause thermal burns.

Label Precautions:

Use with adequate ventilation. Avoid generating dust. Wear appropriate eye and skin protection (Safety glasses/goggles, gloves) to prevent any injury. Wear appropriate respiratory protection (N95 for dust and acid gas cartridge if hydrogen chloride is generated) if concentrations exceed the permissible limits.

Fire Fighting:

Use dry chemical, water spray (fog) foam or carbon dioxide extinguishing agents. Manual fire fighting may be difficult due to the presence of thick smoke.

Label First Aid:

EYES: Flush with plenty of water or saline for at least 15 minutes. Consult a physician. SKIN: Wash with soap and water for at least 15 minutes. Consult a physician if irritation persists. If molten material gets on skin, cool rapidly with cold water. Do not attempt to peel material from skin. Get medical treatment for thermal burns.

INHALATION: Remove to fresh air, if unconscious or severely injured, check for clear airway, breathing, and presence of pulse. Provide CPR if there is no pulse or respiration. Consult a physician.

See Alcoa Material Safety Data Sheet No. 1202 for more information about use and disposal.

Emergency Phone: (412) 553-4001

INGREDIENTS: Polyvinyl chloride resin CAS NUMBERS: (9002–86–2)

INGREDIENTS: Plasticizers:

INGREDIENTS: Impact Modifiers

INGREDIENTS: Surfactants

INGREDIENTS: Lubricants

INGREDIENTS: Processing Aids

INGREDIENTS: Stabilizer

MSDS Revision Date:

Original: March 28, 2002 Revision: 1.0000

MSDS Status: Replaces Reynolds Metals MSDS# 5142

MSDS Author:

Hazardous Materials Control Committee

Disclaimer:

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MSDS System Number: 161736

Other Information: * Guide to Occupational Exposure Values-2001, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).

* Documentation of the Threshold Limit Values and Biological Exposure Indices, Sixth Edition, 1991, Compiled by the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH). * NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, June 1994.

* Dangerous Properties of Industrial Materials, Sax, N. Irving, Van Nostrand Reinhold Co., Inc., 1984.

* Patty's Industrial Hygiene and Toxicology: Volume II: Toxicology, 4th ed., 1994, Patty, F. A.: edited by Clayton, G. D. and Clayton, F. E.: New York: John Wiley Sons, Inc. *TOMES CPS(TM), MICROMEDEX, Inc., 2001

Key-Legend: ACGIH: American Conference of Governmental Industrial Hygienists AICS: Australian Inventory of Chemical Substances CAS: Chemical Abstract Service CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act CFR: Code of Federal Regulations CPR: Cardio-pulmonary Resuscitation DOT: Department of Transportation DSL: Domestic Substances List (Canada) EINECS: European Inventory of Existing Commercial Chemical Substances EPA: Environmental Protection Act IARC: International Agency for Research on Cancer LC50: Lethal concentration (50 percent kill) LCLo: Lowest published lethal concentration LD50: Lethal dose (50 percent kill) LDLo: Lowest published lethal dose LFL: Lower Flammable Limit MITI: Ministry of International Trade Industry NFPA: National Fire Protection Association NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program OEL: Occupational Exposure Limit OSHA: Occupational Safety and Health Administration PEL: Permissible Exposure Limit **PIN: Product Identification Number PSN: Proper Shipping Name** RCRA: Resource Conservation and Recovery Act SARA: Superfund Amendments and Reauthorization Act STEL: Short Term Exposure Limit TCLP: Toxic Chemicals Leachate Program TDG: Transportation of Dangerous Goods TLV: Threshold Limit Value TSCA: Toxic Substance Control Act TWA: Time Weighted Average UFL: Upper Flammable Limit WHMIS: Workplace Hazardous Materials Information System atm: atmosphere cm: centimeter g, gm: gram in: inch kg: kilogram lb: pound m: meter mg: milligram ml, ML: milliliter

mm: millimeter mppcf: million particles per cubic foot n.o.s.: not otherwise specified ppb: parts per billion ppm: parts per million psia: pounds per square inch absolute u: micron ug: microgram

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