

PULMONARY MEDICINE, INFECTIOUS DISEASE

AND CRITICAL CARE CONSULTANTS MEDICAL GROUP, INC.

Leaders in outcomes oriented, evidence based, compassionate, cost effective care

MSDS Table of Contents

As of 12/06/2011

Air - Compressed (gas) for PFTs

Common Name: Compressed Air

Manufacturer: Airgas

http://www.airgas.com/documents/pdf/001002.pdf

Ajax Oxygen Bleach Cleaner

Common Name: Disinfectant Powder Cleanser

Manufacturer: Colgate Palmolive

http://www.colgatecommercial.com/ColgateSite/media/MSDS/AJAX%20CLEANER%20POWE R-OXYGEN%20BLEACH.pdf

Albuterol Sulfate

Common Name: Albuterol Sulfate inhalation solution 0.083%

Manufacturer: Nephron Pharmaceuticals

http://nephronpharm.com/images/documents/MSDS 0.083 rev 7-22-2004.pdf

ALCARE PLUS Foam Sanitizer

Common Name: Hand Sanitizer

Manufacturer: Steris

http://www.steris.com/documents.cfm?id=6399

Alcohol Individual Prep Pads

Common Name: Medi-Pak - Alcohol Prep Pads

Manufacturer: Cypress Medical Products

https://mms.image.mckesson.com/CumulusWeb/Click_and_learn/Medi-Pak_Alcohol_Prep_Pads_Sterile(58-204,%2058-404).pdf

Awesome

Common Name: All Purpose Cleaner Manufacturer: Awesome Products Inc. Click HERE for attached MSDS sheet

Betadine

Common Name: Povidone Iodine Solution

Manufacturer: Perdue Frederick Company

Click HERE for attached MSDS sheet

Carbon Monoxide for PFT

Common Name: Carbon Monoxide

Manufacturer: Airgas

http://www.airgas.com/documents/pdf/001014.pdf

Cavi-wipes

Common Name: Disinfecting Wipes

Manufacturer: Metrex Research Corp

http://www.metrex.com/msds/metrex/us/english/Caviwipes.pdf

Chem Dry

Common Name: Carpet Cleaner

Manufacturer: Harris Research Inc.

http://www.chemdry.com/products-tips/products-available-at-the-homedepot/Stain%20Extinguisher%20Aerosol%20C190%2C%20C196%2C%20C198.pdf

CitriCide

Common Name: Air Deodorizer

Manufacturer: Healthlink

http://www.healthlinkinc.net/MSDS/CitriCideMSDS.PDF

Cloralex

Common Name: Bleach

Manufacturer: AIEn

http://www.alen.com.mx/alenamericas/MSDS/Cloralex/MSDS%20Cloralex%20%20Regular%2 0Bleach%20%20.pdf

Clorox

Common Name: Bleach

Manufacturer: The Clorox Company

http://www.clx.com/products/msds/bleach/cloroxregularbleach0809 .pdf

Clorox Clean-Up Cleaner w/Bleach

Common Name: All Purpose Cleaner

Manufacturer: The Clorox Company

http://www.clx.com/products/msds/cloroxcleanup/cloroxclean-upcleanerwithbleach.pdf

Comet

Common Name: Disinfectant Powder Cleanser

Manufacturer: Proctor & Gamble

http://www.pgpro.ca/Portals/0/Documents/msds/PGP%20Comet%20Disinfectant%20Cleanser %20with%20Chlorinol%20EN%20MSDS%20110110.pdf

Cosco 2000 Plus Ink

Common Name: Stamp Ink

Manufacturer: M&R Marking Systems, Inc.

Click HERE for attached MSDS sheet

Depo-Medrol

Common Name: Depo-Medrol

Manufacturer: Pfizer

http://www.pfizer.com/files/products/material_safety_data/PZ01044.pdf

Dust Destroyer

Common Name: Compressed Gas Duster

Manufacturer: Falcon

http://www.falconsafety.com/documentLibrary/Dust%20Detroyer%20Compressed-Gas%20Duster%20-%20October%202009%20(English).pdf

Expo Dry Erase Board Cleaner

Common Name: Dry Erase Board Cleaner

Manufacturer: Sanford Corp.

http://www.officedepot.com/pdf/msds/127731.pdf

E-Z seal postage machine sealant

Common Name: postage machine sealing solution

Manufacturer: Pitney Bowes Inc.

Click HERE for attached MSDS sheet

Flu Vaccine

Common Name: Flulaval vaccine 2011-2012

Manufacturer: ID Biomedical Corporation of Quebec

http://www.msds-gsk.com/13034608.pdf

GBG Foam Sanitizer

Common Name: Hand Sanitizer

Manufacturer: Healthlink

http://www.healthlinkinc.net/MSDS/GBGFoamingMSDS.pdf

Helium (gas) for PFTs

Common Name: Helium Gas

Manufacturer: Airgas

http://www.airgas.com/documents/pdf/001025.pdf

Hempz Hand Lotion

Common Name: Hand Moisturizer

Manufacturer: PBI Group, INC

http://www.4mss.com/products/download_files/hempz/hempz_herbal_moisturizer.pdf

Hydrogen Peroxide

Common Name: Hydrogen Peroxide - Medi-Pak

Manufacturer: Hydrox Laboratories

https://mms.image.mckesson.com/CumulusWeb/Click_and_learn/Medi-Pak_Hydrogen_Peroxide_3_24oz_20_16oz_(23-F0010_23-D0012).pdf

Ipratropium Bromide

Common Name: Ipratropium Bromide Solution

Manufacturer: Nephron Pharmaceuticals

http://nephronpharm.com/images/upload_images/file/MSDS%200_02%25%20rev_%209-2-2008.PDF

Kleen Guard Furniture Polish

Common Name: Furniture Polish

Manufacturer: Alberto Culver

http://msds.alberto.com/ATN/MSDSUS/DEFAULT/00133800.PDF

Lung Diffusion Mix (gas) for PFTs

Common Name: Lung Diffusion Mix Gas

Manufacturer: Airgas

http://www.airgas.com/documents/pdf/005184.pdf

Lysol Toilet Bowl Cleaner

Common Name: Bathroom Cleaner

Manufacturer: Renckitt Benkiser

http://dev.rbnainfo.com/MSDS/US/US%20-%20Professional%20LYSOL®%20Disinfectant%20Toilet%20Bowl%20Cleaner%20-%20Complete%20Clean%20Power-English.pdf

Lysol Wipes

Common Name: Disinfecting Wipes

Manufacturer: Renckitt Benkiser

http://www.rbnainfo.com/MSDS/CAN/Lysol-Brand-Disinfecting-Wipes-Canada-English.pdf

Medi-Pak - Hand Lotion

Common Name: Hand Moisturizer

Manufacturer: Central Solutions, Inc

https://mms.image.mckesson.com/CumulusWeb/Click_and_learn/Medi-Pak%20Moisturizing%20Skin% 20Care%20Lotion%20(53-28009,%2053-28002,%2053-28003,% 2053-28007,%2053-28001,%2053-28006-1000,%2053-28006-2000).pdf

Medi-Pak Hand Sanitizer

Common Name: Hand Sanitizer

Manufacturer: Central Solutions, Inc

https://mms.image.mckesson.com/CumulusWeb/Click and learn/Medi-Pak Instant Hand Sanitizer (53-28039 53-28032 53-28033 53-28037 53-28036-1000 53-28036-MP1000 53-28036-1250 53-28036-2000).pdf

Medi-Pak Hand Soap

Common Name: Hand Soap

Manufacturer: Central Solutions, Inc

https://mms.image.mckesson.com/CumulusWeb/Click_and_learn/Medi-Pak_Antimicrobial_Hand_Soap_(53-28073_53-28077_53-28071_53-28076-1000_53-28076-1000-4_53-28076-MP1000_53-28076-2000).pdf

Neutra Air (Lysol)

Common Name: Air Deodorizer

Manufacturer: Renckitt Benkiser

http://msds.cexp.com/msds/RCK76938.pdf

Nitrogen Gas for PFTs

Common Name: Nitrogen

Manufacturer: Airgas

http://www.airgas.com/documents/pdf/001040.pdf

Ocufresh

Common Name: Eye Wash Saline

Manufacturer: Optics Laboratory, Inc.

http://www.custom-kits.com/MSDS/OcuFreshMaterialSafetyDataSheet.pdf

Oops! Staples Correction Tape

Common Name: Correction Tape

Manufacturer: Dongkee Enterprise Inc.

Click HERE for attached MSDS sheet

OxiClean Active Stain Remover

Common Name: Carpet Cleaner

Manufacturer: Orange Glo

Click HERE for attached MSDS sheet

Oxygen (gas) for PFTs

Common Name: Oxygen

Manufacturer: Airgas

http://www.airgas.com/documents/pdf/001043.pdf

Palmolive (Lemon)

Common Name: Dish Liquid

Manufacturer: Colgate Palmolive

http://www.colgate.com.au/Colgate/AU/Corp/MSDS/pdfs/PO_Antibac_Lemon_Dish.pdf

Pine Sol (Lemon Fresh)

Common Name: All Purpose Cleaner

Manufacturer: The Clorox Company

http://www.clx.com/products/msds/pinesol/lemonfreshpine-solallpurposecleanermsds8-30-04.pdf

Pink Pearl Hand Soap

Common Name: Hand Soap

Manufacturer: Amsan, L.L.C.

http://eaccess.amsan.com/masterImages/aschiapp/MSDS/REN/REN02523.pdf

Pneumovax

Common Name: Pneumococcal vaccine

Manufacturer: Merck & Co Inc

http://www.merck.com/product/usa/pi_circulars/p/pneumovax_23/pneumovax_pi.pdf

Postage Machine Cleaner

Common Name: equipment cleaner

Manufacturer: Pitney Bowes Inc.

http://www.pb.com/bv70/en_US/extranet/landingpages/Cleaning%20Kit%20Files/msds%20279 %20rev%20a%20pitney%20bowes%20office%20equipment%20cleaner%20%20(e0006131).p df

Power House Glass Cleaner

Common Name: Glass Cleaner

Manufacturer: Chase Products

http://www.gjfood.com/pdf/msds/115_821445.pdf

Purell Hand Sanitizer

Common Name: Hand Sanitizer

Manufacturer: GoJo Industries, Inc.

http://www.gojo.com/United-States/Brands/PURELL/~/media/Files/MSDS/US%20Canada/English/PURELLInstantHandSan itizer_05040.ashx

Sani-Cloth Wipes

Common Name: Disinfecting Wipes

Manufacturer: Professional Disposables, Inc.

http://www.pdipdi.com/assets/msds/MSDS0020-PDI_Super_Sani-Cloth_MSDS-634362865316352008.pdf

Screen Cleaner (staples brand)

Common Name: Computer Screen Cleaner

Manufacturer: ACL, Inc

ftp://ftp.kensington.com/pdfs/msds/staples/X80012msds.pdf

Seventh Generation Dish Liquid

Common Name: Dish Liquid

Manufacturer: Seventh Generation Inc.

http://www.seventhgeneration.com/sites/default/files/assets/pdf/msds/English/Dish_Liquids_M_SDS_0.pdf

Seventh Generation Dishwashing Gel

Common Name: Dishwashing Gel

Manufacturer: Seventh Generation Inc.

http://www.seventhgeneration.com/sites/default/files/assets/pdf/msds/English/Automatic Dish washer Gel MSDS 0.pdf

Simply Right Hand Soap

Common Name: Hand Soap

Manufacturer: Apollo Health and Beauty

Click HERE for attached MSDS sheet

Toner (zoom) all machines

Common Name: Toner

Manufacturer: Toshiba Corporation

Click HERE for attached MSDS sheet

Vaseline Hand Lotion

Common Name: Vaseline Moisturizer

Manufacturer: Unilever

http://www.unilevermsdsusa.com/Document/32/69/712d6b9c-d652-4c47-9640-78faf974a2be.pdf

Windex

Common Name: Glass Cleaner

Manufacturer: Johnson Wax

http://suministrospormenos.com/Documents/4274WindexOrigGlassCleanerMSDS.pdf

Xolair

Common Name: Xolair (anti IgE medication) Manufacturer: Genetich Inc http://www.gene.com/gene/products/information/msds/xolair/Xolair.pdf

Date Issued : 1/10/11

<u>US MANUFACTURER:</u> Awesome Products Inc. Phone 1-800-482-2875 6370 Altura Blvd., Buena Park, CA 90620 Emergency Phone : 714-562-8873

Hazard Rating	HMIS	Hazard	NFPA
4 - Very High	1	Health	1
3 - High	0	Flammability	0
2 - Moderate	0	Reactivity	0
1 - Slight		Special	
0 - Insignificant			

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PRODUCT NAME All Purpose Cleaner & Degreaser

REASON FOR CHANGE Formulation Revised.

PRODUCT USE Home care cleaning product

PRODUCT DESCRIPTION

16 Oz Awesome All Purpose Cleaner and Degreasers & Spot Remover 20 Oz Awesome All Purpose Cleaner and Degreasers & Spot Remover 24 Oz Awesome All Purpose Cleaner and Degreasers & Spot Remover 32 Oz Awesome All Purpose Cleaner and Degreasers & Spot Remover 64 Oz Awesome All Purpose Cleaner and Degreaser & Spot Remover

SECTION 2 - INGREDIENT INFORMATION

Weight %	Ingredient & Exposure Limit	
0.01 to 2.5	Orange Oil Blend(CAS# 8008-57-9) & (CAS#111-76-2))	
0.5 to 4.0	Ethoxylated Alcohol (CAS# 9036 19 5)	
0.5 to 1.5	Disodium Salt (CAS# 6834-92-0)	
0.5 to 1.5	Tetra Sodium EDTA (CAS# 64-02-8)	
0.5 to 0.8	Hydroxy Sodium (CAS# 1310-73-2)	
QS	Water (CAS# 7732-18-5)	

SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also see Section 11)

ROUTE(S) OF ENTRY Effects of Acute Exposure

Eye

May Cause : Mild eye irritation.

Skin

Prolonged or repeated contact may cause : irritation

Inhalation None Known

Ingestion None Known.

Date Issued : 1/10/11

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE None Known.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT

Flush immediately with plenty of water for at least 15 to 20 minutes. If irritation persists, get medical attention.

SKIN CONTACT Rinse with plenty of water

INHALATION No special requirements.

INGESTION Immediately drink 1-2 glasses of water or milk. Seek immediate medical attention.

SECTION - 5 - FIRE AND EXPLOSION INFORMATION

FLASH POINT Not Applicable FLAMMABLE LIMITS Not applicable.

AUTOIGNITION TEMPERATURE Not applicable.

EXTINGUISHING MEDIA Foam. CO₂. Dry chemical. Water Fog.

SPECIAL FIREFIGHTING PROCEDURES Normal fire fighting procedures may be used.

UNUSUAL FIRE AND EXPLOSION HAZARDS Container may melt and leak in heat of fire

SECTION 6 - PREVENTATIVE RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Dike large spills. Absorb with oil-dri or similar inert material Sweep or scrape up and containerize

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONARY INFORMATION

May be : Eye irritant. Avoid contact with eyes. If such contact occurs, flush immediately with plenty of water for at least 15 to 20 minutes.

If irritation persists, seek medical aid. Keep out of reach of children.

Date Issued : 1/10/11

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 Varies

PRODUCT STATE Liquid

ODOR Orange

pH Range 12 - 13

ODOR THRESHOLD Not available.

SOLUBILITY IN WATER Complete

SPECIFIC GRAVITY $(H_2O = 1)$ 1.00

VAPOR DENSITY (AIR = 1) Not Available

EVAPORATION RATE (BUTYL ACETATE = 1) Not available

VAPOR PRESSURE (mm HG) Not Available.

BOILING POINT 212 °F (100 °C)

FREEZING POINT - 32 °F (0 °C)

Date Issued : 1/10/11

COEFFICIENT OF WATER / OIL Not available.

VOLATILE ORGANIC COMPOUNDS(VOCs) < 2%

SECTION 10 - STABILITY AND REACTIVITY

STABILITY Stable

STABILITY - CONDITIONS TO AVOID Not applicable

INCOMPATIBILITY None known.

HAZARDOUS POLYMERIZATION Will not occur.

HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID Not applicable

SECTION 11 - TOXICOLOGY INFORMATION (Also see Section 3)

LD50 (ACUTE ORAL TOX) Not available.

LD 50 (ACUTE DERMAL TOX) Not available.

LD50 (ACUTE INHALATION TOX) Not available.

EFFECTS OF CHRONIC EXPOSURE None known.

CARCINOGENICITY None known. REPRODUCTIVE TOXICITY None known.

TERATOGENICITY None known.

MUTAGENICITY None known.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA Contains readily degradable surfactants.

Date Issued : 1/10/11

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INFORMATION

Waste from normal product use may be sewered to a publicly-owned treatment works (POTW) in compliance with applicable Federal / Provincial / State / Local / Municipal pretreatment requirements.

SECTION 14 - TRANSPORTATION INFORMATION

US DOT INFORMATION Not applicable.

CANADIAN SHIPPING NAME

TDG CLASSIFICATION Non-regulated.

PIN/NIP Not applicable

PACKING GROUP Not applicable. EXEMPTION NAME Not applicable.

SECTION 15 - REGULATORY INFORMATION

WHIMS CLASSIFICATION Not applicable

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 the California's Proposition 65.

SECTION 16 - OTHER INFORMATION

ADDITIONAL INFORMATION Use as directed.

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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TEL: 203-853-0123---1138 Jan 16,92 8:14 No.001 P.02

3202 PLASTIC BOTTLE STER A LODDIX

Updated: August 1, 1990

MATERIAL SAFETY DATA SHEET

SH PL I

THE PURDUE FREDERICK COMPANY 100 CONNECTICUT AVENUE NORWALK, CONNECTICUT 06856

.

EMERGENCY TELEPHONE NO.: 1-800-877-0123 IN CT.: 203-853-0123

SECTION I:

CHEMICAL NAMES AND SYNONYMS:	Povidone Iodine Solution USP, PVP-I
TRADE NAME:	Betadine Whirlpool Concentrate
CHEMICAL FAMILY:	Polymer
FORMULA:	(C _H NO)n X Ì
CAS REGISTRY NO.:	25655-41-8

SECTION II: INGREDIENTS

NAME	8	TLV	TOXICOLOGICAL DATA
Povidone Iodine	10.	*	Mouse, Oral LD > 8100mg/kg. Rat, IV LD > 640mg/kg 50
Purified Water	90		
*Not Established	↓ •	- k	

BECTION III: PHYSICAL DATA

SPECIFIC GRAVITY:	25°C.	1.02		
pH:	< 6.0			
APPEARANCE & ODOR:	Reddish brow	n, clear liquid,	faint odor	DC

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page 2.

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MATERIAL SAFETY DATA SHEET

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASHING POINT (method used):	not flammable
FLAMMABLE LIMITS:	none
Lel: N/A	Uel N/A
EXTINGUISHING MEDIA:	N/A
SPECIAL FIRE FIGHTING PROCEDURES:	N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None

SECTION V: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:

This product is generally recognized as safe when used as a topical antimicrobial agent. Overexposure may cause local irritation to the skin. Elevated concentrations of iodide in the serum may occur if excessive amounts of iodine are absorbed through broken skin, burns or deep wounds. Iodine may also be absorbed through the lungs and from the gastrointestinal tract: High concentrations of iodide in the serum may produce alterations in thyroid function, renal disturbances, acidosis and electrolyte disturbances.

EMERGENCY AND FIRST AID PROCEDURES
FOR EYES:Immediately wash with running water for 5 minutes.
Get medical attention if irritation persists.FOR SKIN:Avoid prolonged contact with excess solution.
If irritation develops, get medical attention.FOR INGESTION:If swallowed, DO NOT INDUCE VOMITING.
Drink
several glasses of water or milk. Get immediate
medical attention.FOR INHALATION:If fumes cause respiratory discomfort, move to
fresh air. Get medical attention if respiratory
discomfort persists.

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page 3.

3

SECTION VI: REACTIVITY DATA

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Iron; can discolor gold or silver

STABILITY: Stable

STORAGE: Store at room temperature

INCOMPATIBILITY: . Not stable toward reducing agents or strong alkalies

HAZARDOUS DECOMPOSITION None PRODUCTS:

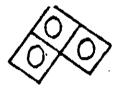
CONDITIONS TO AVOID:

CORROSIVE TO METAL:

TYPE:

OXIDIZER:

NATIONAL FIRE PROTECTION ASSOCIATION (NPPA) RATING DEGREES OF HAZARD:



None

Yes

Yes

SECTION VII: ENVIRONMENTAL DATA

IS RELEASED OR SPILLED:	Spills should be cleaned up as soon as possible; wash affected are with dilute ammonia or dilute sodium thio- sulfate and copious quantities of water.
WASTE DISPOSAL METHOD:	Do not discharge into waterways or sewe systems. Neutralize with sodium thio- sulfate or ammonia solution prior to disposal.
HAZARDOUS SUBSTANCE UNDER "SUPERFUND":	No
HAZARDOUS WASTE, 40 CFR 261:	No
HAZARDOUS WASTE NUMBER:	N/A
CONTAINBR DISPOSAL:	In similar manner as other plastic bottles

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TEL: 203-853-0123---1138 Jan 16,92 8:14 No.001 P.05

page 4.

MATERIAL SAFETY DATA SHEET

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): Physiotherapists who remain in treatment room and experience discomfort should wear self contained breathing apparatus.

VENTILATION:

Good ventilation will reduce potential for overexposure.

;

N/A

N/A

LOCAL BXHAUST: Recommended MECHANICAL (general): N/A

PROTECTIVE GLOVES: N/A

EYE PROTECTION: N/A

OTHER PROTECTIVE EQUIPMENT: N/A

SECTION IX: SPECIAL PRECAUTIONS

SPECIAL:

OTHER:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: N/A

OTHER PRECAUTIONS:

To prevent overexposure during use of Betadine Whirlpool Concentrate it is recommended that: (1) Hydrotherapy tanks be covered as much as possible during patient use (2) Physiotherapists leave the room during treatment and (3) Betadine Whirlpool be used in the ratio specified in the labeling.

SIGNATURE:

Kange, Ph.D. Winthrop E.

Director of Technical Services

"THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE."

TITLE:

MATERIAL SAFETY DATA SHEET Ideal Stamp Ink (all colors) Cosco 2000 Plus Date of Preparation: January 11, 2006

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT/CHEMICAL NAME: Ideal Stamp Ink (all colors) GENERAL USE: Self inking stamp pads. MANUFACTURER: M&R Marking Systems, Inc., 100 Springfield Ave., Piscataway, NJ 08855 EMERGENCY TELEPHONE NUMBER: (732) 562-9500

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	ACGIH TWA	OSHA PEL
			EXPOSURE LIMITS
Ethylene Glycol	107-21-1	39 PPM (AS A MIST)	None listed.
<25.0%			
Diethylene Glycol	111-46-6	None Listed.	None Listed.
<6.0%			

No other ingredients identified by OSHA as hazardous are known to be present, or the ingredients present are below levels specified as hazardous by OSHA (29 CFR 1910.1200)

SECTION 3 – HAZARDS INDENTIFICATION POTENTIAL HEALTH EFFECTS

ACUTE EFFECTS

INHALATION: Room temperature vapors are minimal. At high temperatures, vapors may cause irritation to respiratory tract.

EYE: May cause irritation.

SKIN: May cause irritation or dermatitis.

INGESTION: Small amounts swallowed are note likely to cause serious injury. Large amounts may cause nausea, vomiting, intestinal distress, liver and/or kidney damage.

CARCINOGENICITY: IARC, NTP, and OSHA do not list any components of this product as a carcinogen.

MEDICAL CONDITIONS AGGRAVATED BY LONG-TERM EXPOSURE: Skin allergies, asthma, bronchitis and emphysema in susceptible individuals.

CHRONIC EFFECTS OF OVEREXPOSURE: Repeated skin contact may cause sensitization in some individuals.

To help protect against expected or unforeseen irritations or reactions, wear all properly selected clothing and protective equipment as instructed in Section 8.

SECTION 4 – FIRST AID MEASURES

INHALATION: If coughing, irritation or tightness in the chest is experienced, remove to fresh air. Get medical attention if symptoms persist. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

EYE CONTACT: Immediately wash the eyes with copious amounts of water, occasionally lifting the lower and upper eyelids. Continue for 15 minutes. If irritation persists, seek medical attention. **SKIN CONTACT:** In case of skin contact, remove contaminated clothing and wash thoroughly with soap and water. Seek medical attention if rash develops. Lounder contaminated clothing before reuse. **INGESTION:** If victim is conscious and alert, give two to four cupfuls of water and immediately induce vomiting. Never give anything by mouth to an unconscious person. Contact physician immediately.

After first aid, get appropriate in-plant, paramedic, or community medical support.

SECTION 5 – FIRE-FIGHTING MEASURES

FLASH POINT: None POINT METHOD: Pensky-Martens Closed Cup FLAMMABILITY CLASSIFICATION: Non-Flammable, Non-Combustible EXTINGUISHING MEDIA: Dry chemical, and Carbon Dioxide Foam UNUSUAL FIRE OR EXPLOSION HAZARDS: None FIRE-FIGHTING INSTRUCTIONS: Fire fighters should wear self-contained breathing apparatus. Do not release runoff from fire control methods to sewers or waterways.

FIRE-FIGHTING EQUIPMENT: As in any fire, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL/LEAK PROCEDURES: Dike and contain spill; absorb or scrape up excess into suitable container for disposal. Stop or reduce discharge if it can be done safely. Do not allow to enter waterways.

REGULATORY REQUIREMENTS: Follow applicable OSHA regulations (29 CFR 1910-120).

SECTION 7 – HANDLING AND STORAGE

HANDLING PRECAUTIONS: Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Use good general housekeeping procedures. Wash hands after handling.

STORAGE REQUIREMENTS: Store in cool, dry, well-ventilated area away from sunlight. Protect from freezing during shipping and storage. Keep away from sources of ignition.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION ENGINEERING CONTROLS

VENTILATION: Provide general or local exhaust ventilation systems. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

RESPIRATORY PROTECTION: Respiratory protection is not required under normal conditions of general or local ventilation. If respirators are used, seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.133) and, if necessary, wear an MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. If respirators are used, OSHA required a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

PROTECTIVE CLOTHING/EQUIPMENT: Wear chemically protective gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910-133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead, of, or in conjunction with contact lenses. **COMMENTS:** Emergency showers and eyewash stations should be made available. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIESPHYSICAL STATE: LiquidWATER SOLUBILITY: Soluble in waterAPPEARANCE: PigmentedBOILING POINT: >250 DEGREE f (121C)ODOR: No odorFREEZING/MELTING POINT: NoneVAPOR PRESSURE: <0.1 mm</td>VISCOSITY (25 DEG): 15-30 CENTIPOIS

Specific gravity (25 degree C: 1.1

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: This product is stable at room temperature in closed containers under normal storage and handling conditions.
POLYMERIZATION: Hazardous polymerization can not occur.
CHEMICAL INCOMPATIBILITIES: Strong acids, bases, oxidizers and reducing agents.
CONDITIONS TO AVOID: Extremely high or low temperatures: open flames.
THERMAL DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE INHALATION EFFECTS: Human, inhalation, TCL: Not Determined ACYTE IRAK EFFECTS: Not Determined REPRODUCTIVE TOXICITY: None established MUTAGENICITY: None Est. TERATOGENICITY: None est. SENSITIZATION: None est.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY: None Established ENVIRONMENTAL FATE: None Established SOIL ABSORPTION/MOBILITY: None Established

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL: This material must be disposed of in accordance with applicable federal, state and local regulations.

SECTION 14 – TRANSPORT INFORMATION

DOT Not classified IATA Not classified IMDG Not classified

SECTION 15 – REGULATORY INFORMATION

EPA REGULATIONS

RCRA HAZARDOUS WASTE NUMBER: None listed. CERCLA HAZARDOUS SUBSTANCE: None listed. SARA EHS: None listed. TSCA INVENTORY STATUS (40 CFR 710): All components of this formulation are listed in the TSCA Inventory.

STATE REGULATIONS

<u>CALIFORNIA PROPOSITION 65:</u> This product **does not contain** chemicals, which the State of California has found to cause cancer, birth defects or other reproductive harm.

SECTION 16 – OTHER INFORMATION

PREPARED BY: Alexander R. Veress **TITLE:** Technical Director, Research and Development

DISCLAIMER: the information furnished herein is believed to be accurate as of the version date and represents the best data currently available to M&R Marking Systems, Inc. However, no warranty is expressed or implied regarding the accuracy of the data and M&M Marking Systems, Inc. assumes no legal responsibility or liability resulting from use. Such data is offered solely for your consideration, investigation and verification.



MSDS	25, REV I	Effective Date:	September 6, 1990
Number:	PITNEY BOWES INC.	Revised Date:	May 18, 2010
Product	EZ Seal Solution	Page:	1 of 4
Name:			

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **COMPANY/UNDERTAKING Product Name:** EZ Seal Solution **Reorder Number:** 600-0, 601-0, 601-2, 601-5, 601-7, 601-9, 602-0, 602-7, 603-1, 603-2, 604-0, 604-1, 604-2, 605-0, 606-0, 607-0, 607-5, 608-0, SV92276, SV92278 Manufacturer: Pitney Bowes Inc. Pitney Bowes Ltd **Address and Phone:** 1 Elmcroft Road Stamford, CT 06926-0700 The Pinnacles Harlow United States 800-243-7824 Essex, CM19 5BD +44(0) 8705 252 525800-424-9300 00-1-703-527-3887 **Emergency/Chemtrec:** North America International (collect call) For SDS Copies: www.pb.com (go to search) For Additional Email: <u>ehs@pb.com</u> **Information:** Sealing Solution for Mail Machines **Product Use: MSDS** Prepared By: Chemical Review Board WHMIS Reviewed May 18, 2010

SECTION 2 – HAZARDS IDENTIFICATION		
Emergency Overview:	Transparent blue liquid with no odor. This product is not	
	combustible. Direct eye contact may cause mild discomfort. Not toxic	
	by inhalation, skin contact or ingestion.	
EU Preparation Classification	Not Classified as Dangerous	
(1999/45/EC):		

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS			
INGREDIENT NAME	CAS NO./EINECS NO.	%	EC SUBSTANCE CLASSIFICATION (67/548/EEC)
Non-Hazardous Ingredients Mixture 100 Not Applicable			
This product is not hazardous as defined in international standards for workplace safety.			

SECTION 4 – FIRST AID	MEASURES
Eyes:	Flush with plenty of running water for 15 minutes, holding eye lids open to assure thorough rinsing. Get medical attention if irritation persists.
Skin:	Wash with soap and water.
Ingestion:	If swallowed, DO NOT induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get medical attention.
Inhalation:	Not an expected route of entry. If symptoms occur, remove person to fresh air. If irritation or pulmonary symptoms develop, consult a physician.



MSDS	25, REV H	Effective Date:	September 6, 1990
Number:	PITNEY BOWES INC.	Revised Date:	May 18, 2010
Product	EZ Seal Solution	Page:	$2 ext{ of } 4$
Name:			

SECTION 5 – FIRE FIGHTING PROCEDURES		
Extinguishing Media:	Use any media that is appropriate to the surrounding fire.	
Fire Fighting Instructions:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Cool fire exposed containers with water.	
Unusual Fire and Explosion Hazards:	None.	
Known or Anticipated Hazardous Products of Combustion:	None known.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES			
Accidental Release Measures:	Wipe up and place into a container for disposal.		
Personal Precautions:	Avoid contact with eyes.		
Environmental Precautions:	No special precautions are needed.		
Aethods for Cleanup:			
Large Spill:	Collect with absorbent material and place into a suitable container for		
	disposal.		
Small Spill:	Wipe up and place into a container for disposal.		

SECTION 7 – HANDLING AND STORAGE			
Handling:	Avoid contact with eyes. Wash hands after use.		
Storage:	Keep out of the reach of children.		
Other Precautions:	None required.		

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION		
Occupational Exposure Limits:		
Non-Hazardous Ingredients	None Established	

Engineering Controls:	None required.	
Ventilation Requirements:	General office ventilation.	
Personal Protective Equipment:		
Eye/Face Protection:	Avoid contact with eyes.	
Skin Protection:	None normally required.	
Respiratory Protection:	otection: None required.	
Other Protective	None required.	
Clothing or Equipment:		

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Transparent blue liquid with no odor.	
Boiling Point:	>93.33°C (>200°F)	
Color:	Blue	
Freezing Point:	Not determined	
Octanol/Water Partition	Not determined	
Coefficient:		
Odor:	No odor	

MSDS	25, REV H	Effective Date:	September 6, 1990
Number:	PITNEY BOWES INC.	Revised Date:	May 18, 2010
Product	EZ Seal Solution	Page:	3 of 4
Name:			

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
Percent Volatile:	>99%		
pH Value:	Not determined		
Solubility in Water:	Infinite		
Specific Gravity or Density	1.002		
(Water=1):			
Vapor Density:	1.0		
Vapor Pressure:	Not determined		
Volatile Organic Compounds:	Not determined		
Flammable Limits in Air (% by	Not determined		
Volume):			
Flash Point:	Not flammable		
Autoignition Temperature:	Not determined		

SECTION 10 – STABILITY AND REACTIVITY		
Stability:	Stable	
Incompatibility With Other	None.	
Materials:		
Hazardous Decomposition	None.	
Products:		
Hazardous Polymerization:	Will not occur.	

SECTION 11 – TOXICOLOGICAL INFORMATION			
Relevant Routes of Exposure:	Not applicable		
Potential Health Effects:			
Eyes:	May cause mild discomfort.		
Skin:	None adverse effects expected.		
Ingestion:	No adverse effects expected. This product is not acutely toxic by ingestions.		
Inhalation:	No adverse effects expected. This product is not acutely toxic by inhalation.		
Medical Conditions Generally None. Aggravated By Exposure: Image: Conditional Condita Conditiona Conditiona Conditiona Conditerative Condit			
Carcinogenicity:	None of the components of this product are classified as carcinogens by IARC, OSHA, NTP, ACGIH, or the EU Directives.		
Acute Toxicity Data			

new particip and				
VALUE	ANIMAL	ROUTES	COMPONENTS	
LD50: >5,000 mg/kg	Rat	Oral	Product	

SECTION 12 - ECOLOGICAL INFORMATION	
Ecological Information: No data available	

SECTION 13 - DISPOSAL CONSIDERATIONS		
Disposal Considerations: Dispose in accordance with local, state or provincial and federal or		
national regulations.		

MSDS	25, REV H	Effective Date:	September 6, 1990
Number:	PITNEY BOWES INC.	Revised Date:	May 18, 2010
Product	EZ Seal Solution	Page:	4 of 4
Name:			

SECTION 14 - TRANSPORT INFORMATION Not regulated for transportation under IATA/ICAO, IMDG, US DOT, EU ADR, or Canadian TDG Regulations.

SECTION 15 - REGULATORY INFO	PRMATION		
EU Regulations:	All of the components are listed on the EINECS inventory.		
EU Labeling:	None Required		
German WGK:	Not determined		
Canadian Regulations:	Canada: Not a controlled product.		
	All of the components are listed in the Canadian DSL.		
Japanese Regulations:	All of the components are listed on the METI inventory.		
Australian Regulations:	All of the components are listed in the AICS inventory.		
US Federal Regulations:	This product contains chemical or chemical compounds listed in the		
	following SARA Title III categories:		
	Extremely Hazardous Substances (302): None		
	Toxic Chemical Release Reporting (313): None		
	SARA 311/312 Hazards: None		
	TSCA: All the components of this product are listed in the EPA TSCA		
	Inventory.		
US State Regulations:	This product contains no chemicals subject to California Propositions		
	65.		

SECTION 16 - OTHER INFORMATION			
NFPA Codes:	Health: 0	Fire: 0 F	Reactivity: 0
HMIS Codes:	Health: 0	Fire: 0 F	Reactivity: 0
EU Classes and Risk Phrases for Reference		None	
(See Sections 2 and 3):			
Other Information:		Keep out	of reach of children.



STAPLES BRAND CORRECTION TAPE (OOPS!)

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT : Correction Tape

CE Item # CEB40144 MSDS Rev.DATE: 9/18/2007

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CORRECTION TAPE SYNONYMS: PEN-STYLE CORRECTION TAPE PRODUCT CODES:

MANUFACTURER: Dongkee Enterprise Co.,Ltd DIVISION: ADDRESS: 140-14, Songhyun-Dong, Dong-Ku, Incheon, Korea

EMERGENCY PHONE: 82-32-582-8042 CHEMTREC PHONE: OTHER CALLS: 82-32-582-8154 FAX PHONE: 82-32-582-8154

CHEMICAL NAME: CHEMICAL FAMILY: CHEMICAL FORMULA:

PRODUCT USE: Correcting mistakes during typing , handwriting or in some forms PREPARED BY: DongKee

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	CAS NO.	<u>% WT</u>	<u>% VOL</u>	SARA 313 REPORTABL
Silica io2	7631-86-9	1		
Titanium dioxide	13463-67-7	22		
Magnesite	546-93-0	8		
Resins		10		
Additive		1		
Separater		58		
ppm ma/m3				

OSHA PEL-TWA: OSHA PEL STEL : OSHA PEL CEILING:

ACGIH TLV-TWA: ACGIH TLV STEL: ACGIH TLV CEILING:

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: THIS PRODUCT IS CONSIDERED SAFE UNDER NORMAL USE CONDITION

ROUTES OF ENTRY: N/A

POTENTIAL HEALTH EFFECTS

EYES: THIS PRODUCT IS CONSIDERED SAFE UNDER NORMAL USE CONDITION SKIN: THIS PRODUCT IS CONSIDERED SAFE UNDER NORMAL USE CONDITION INGESTION: THIS PRODUCT IS CONSIDERED SAFE UNDER NORMAL USE CONDITION INHALATION: THIS PRODUCT IS CONSIDERED SAFE UNDER NORMAL USE CONDITION

ACUTE HEALTH HAZARDS: NONE

CHRONIC HEALTH HAZARDS: NONE

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NO DATA AVAILABLE

CARCINOGENICITY OSHA: ACGIH: NTP: IARC:



OTHER:

SECTION 3 NOTES: THIS PRODUCT IS CONSIDERED SAFE UNDER NORMAL CONDITIONS

SECTION 4: FIRST AID MEASURES

EYES: GENTLY LRINSE THE AFFECTED EYES WITH CLEAN WATER AND CONSULT A DOCTOR PROMPTLY

SKIN: WASH THE AFFETIVE SKIN AREAS UNDER RUNNING WATER USING A MILD SOAP

INGESTION: NOT APPLICABLE

INHALATION: NOT APPLICABLE

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES: THIS PRODUCT IS CONSIDERED SAFE UNDER NORMAL CONDITIONS

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A (% BY VOLUME) LOWER:

FLASH POINT: N/A F: C: METHOD USED:

AUTOIGNITION TEMPERATURE: N/A |F: C:

NFPA HAZARD CLASSIFICATION HEALTH: FLAMMABILITY: REACTIVITY: OTHER:

HMIS HAZARD CLASSIFICATION HEALTH: FLAMMABILITY: REACTIVITY: PROTECTION:

EXTINGUISHING MEDIA: WATER MIST, DRY CHEMICAL, FORM, CO2 GAS

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: NORMAL CLEAN UP

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED0

OTHER PRECAUTIONS: AVOID SUNSHINE, HUMID CONDITION AND ALL IGNITIOIN SOURCES. DO NOT STORE NEAR HEATERS OR OTHER SOURCES OF HEAT

SECTION 7 NOTES: NO SPECIAL HANDLING AND STORAGE REQUIREMENTS

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: ACGH TLV : NOT ESTABLISHED, OSHA : NOT ESTABLISHED



VENTILATION : N/A RESPIRATORY PROTECTION: NONE EYE PROTECTION: N/A SKIN PROTECTION: DESIRABLE IN SOME CASE OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A WORK HYGIENIC PRACTICES: NONE EXPOSURE GUIDELINES: SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

```
APPEARANCE: WHITE FLIM
ODOR:NO ODOR
PHYSICAL STATE:
pH AS SUPPLIED: N/A
pH (Other):
BOILING POINT:
  F:
  C:
MELTING POINT: N/A
  F:
  C:
FREEZING POINT: N/A
  F:
  C:
VAPOR PRESSURE (mmHg): N/A
@
  F:
  C:
VAPOR DENSITY (AIR = 1): N/A
@
  F:
  C:
SPECIFIC GRAVITY (H2O = 1): N/A
@
  F:
  C:
EVAPORATION RATE: N/A
BASIS (=1):
SOLUBILITY IN WATER: NEGLIGIBLE
PERCENT SOLIDS BY WEIGHT: N/A
PERCENT VOLATILE: N/A
  BY WT/
  BY VOL @
  F:
  C.
VOLATILE ORGANIC COMPOUNDS (VOC): N/A
     WITH WATER:
                      LBS/GAL
  WITHOUT WATER:
                       LBS/GAL
MOLECULAR WEIGHT: N/A
VISCOSITY:
@
```



F: C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE
STABILITY: STABLEUNSTABLECONDITIONS TO AVOID (STABILITY): N/AINCOMPATIBILITY (MATERIAL TO AVOID) N/AHAZARDOUS DECOMPOSITION OR BY-PRODUCTS: WILL NOT OCCURHAZARDOUS POLYMERIZATION: WILL NOT OCCURCONDITIONS TO AVOID (POLYMERIZATION): N/ASECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: NEGATIVE IN THE AMES TEST

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/A

SECTION 12 NOTES: THIS SUBSTANCE IS NOT BIODEGRADABLE

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

RCRA HAZARD CLASS:

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION PROPER SHIPPING NAME: HAZARD CLASS: ID NUMBER: PACKING GROUP: LABEL STATEMENT:

WATER TRANSPORTATION PROPER SHIPPING NAME: HAZARD CLASS: ID NUMBER: PACKING GROUP: LABEL STATEMENTS:

AIR TRANSPORTATION PROPER SHIPPING NAME:



HAZARD CLASS: ID NUMBER: PACKING GROUP: LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES: NOT REGULATED AS A HAZARDOUS MATERIAL. NO SPECIAL.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): 311/312 HAZARD CATEGORIES: 313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: ENSURE THAT THIS SUBSTANCE IS IN CONFORMITY TO YOUR CONTRY REQUIREMENTS AND LOCAL REGULATION

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER:

THE INFORMATION I NTHE MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.

THE CONDITIONS OR METHODS OF HANDLING ,STORAGE, USE AND DISPOSAL OF THE PRODUCT ARE BEYOND OUT CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING,STORAGE, USE OR DISPOSALL OF THE PRODUCT.

THIS MSDS WAS PREPARED AND BE USED ONLY FOR THIS PRODUCT. IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PROUCT, THIS MSDS INFORMATION MAY NOT BE APPLICABLE.



Section 1:	CHEMICAL P	RODUCT AND COMPANY I	DENTIFI	CATIC	ON		
Product Name/ Trade Name: OxiClean Activ Carpet		ctive Stain Remover for	HMIS codes	Н		R	Р
Supplier:	Orange Glo International PO Box 3998 Littleton, CO 80110 US		12/30 Eileen	0 /03 Koop	0	0	ND
Emergency Phone:	303-740-1909 Poison Control (US): Transportation emerg	MSDS Reviewed: 1-800-222-1222 gencies: ChemTrec 800-424-9	9300				
Information Phone:	303-740-1909						

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

General Description: Multiple Purpose Carpet Stain Remover

Hazardous Ingredients:

Ingredients not precisely identified are proprietary or nonhazardous

CAS #	Chemical name	%'age range
7722-84-1	Hydrogen Peroxide	2 to 4
34590-94-8	Dipropylene Glycol Monomethyl Ether	2 to 5

Section 3: HAZARDS IDENTIFICATION

This product is a consumer product. To the extent the product is used in a fashion typical to that of a consumer, protective measures, with the exception of those indicated on the label, are not normally necessary. Where use conditions and/or extent and duration of exposure differ from typical consumer use, however, appropriate protective measures to prevent eye and prolonged skin contact (glasses, goggles, rubber gloves, protective clothing) and minimize inhalation exposure (engineering controls, NIOSH-approved respiratory protection appropriate for the hazard presented) are recommended.

General:	
Emergency:	
Primary Route(s) of Entry:	Eyes, Ingestion, Skin
Effects of Overexposure-	Not expected with normal use conditions.
Inhalation:	
Effects of Overexposure-	Irritation to blistering of mucosal membranes. Pain, vomiting,
Ingestion:	diarrhea, CNS depression.
Effects of Overexposure-Eyes:	Irritation, pain on brief exposure, corneal damage on extended
	exposure.
Effects of Overexposure-Skin:	No adverse effects expected on intact skin. Contact on a burn or
	other wound likely to cause stinging pain or irritation. Extended exposure may discolor skin, temporarily.



Effects of Overexposure-Chronic Not expected. Hazards:

Section 4:	FIRST AID MEASURES	
 Skin: Eyes: Ingestion: Inhalation: 	Not expected to require first aid measures. Wash exposed area promptly with soap and water, consult physician if irritation develops. Immediately flush eyes with cool running water for at least 15 minutes, being sure to get under the eyelid. Get medical attention at once. Do not induce vomiting. Have only concious individuals drink several glasses of water to dilute. Get medical attention. Note expected to require first aid measures. If individual has discomfort, remove to fresh air environment.	
Flashpoint and M method used:	N/A Flammable limit: N/A Flammable limit: N/A (LEL) (UEL)	
Auto-ignition temper	rature: N/A	
Extinguishing media:	: Use any means suitable for surrounding fire.	
Special fire-fighting protective equipmen		
Unusual fire and exp hazards:	olosion Not expected.	
Explosion data:	No explosion hazard expected.	
Section 6:	ACCIDENTAL RELEASE MEASURES	
Personal protective equipment:	None required	
Material release or s	then absorbed on commercial material such as vermiculite. Do not use	
Other:	combustible absorbent, such as saw dust.	
Section 7:	HANDLING AND STORAGE	
Storage:	Store in cool, ventilated area, away from light exposure.	

Precautions during Keep from eyes. handling and storage:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



Exposure limits:	Hydrogen Peroxide, OSHA TWA, ACGIH TLV = 1 ppm
Engineering controls:	N/A
Eye protection:	Splash proof safety glasses.
Protective clothing:	Impermeable gloves for more than incidental product use.
Respiratory protection	: N/A
Other PPE:	N/A
Section 9:	PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Nearly colorless thin liquid
Odor:	Very slight ammonia/ethereal
Physical state:	Liquid

Boiling point: Vapor Pressure: Solubility in water: pH: Melting point:	N/D N/D Complete 8.3 N/A N/A	Vapor density: Evaporation rate: Viscosity: Specific Gravity: Cloud point:	N/D N/D N/A 1.017 N/D
	•	• • •	
% volatile by volume:	N/A	Cloud point:	N/D
Partition coefficient:	N/D	Freezing point:	N/D
Coefficient of water/oil distribution:	N/D		

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of storage and use.
Incompatibility:	Do not contaminate product. Metals and their salts, and alkali materials are especially bad.
Conditions to avoid:	High temperatures, contaminants.
Hazardous decomposition:	Oxygen evolves from contaminated material. Can accordingly build significant pressure in containers, with possible rupture. Oxygen evolved can support nearby combustion.
Hazardous polymerization:	None.

Section 11: TOXICOLOGICAL PROPERTIES

Acute oral toxicity	ND
Carcinogenicity:	Hydrogen Peroxide IARC category 3
Reproductive toxicity/	No components listed.
Teratogenicity:	
Mutagenicity:	ND
Toxicologically synergistic	None known.
products:	

Section 12: ECOLOGICAL INFORMATION

Persistence and degradation: Not Established. All components are Readily Biodegradeable. Toxicity: ND Other:



Section 13: DISPOSAL CONSIDERATIONS

Disposal method:Rinse small amounts to drain (sewer).Container disposal:Rinse thoroughly, recycle if possible, otherwise landfill.

Section 14:	TRANSPORT INFORM	ATION	
DOT proper shipping name:	Not regulated	DOT technical name:	N/A
DOT Hazard class:	N/A	Hazard subclass:	N/A
UN Number, proper shipping name:	N/A	Packing group:	N/A
Other Transport information:	Not hazardous for tr	ansport	

Section 15: REGULATORY INFORMATION

OSHA Haz Com 29 CFRMSDS prepared pursuant to the Hazard Communication Standard1910.1200:(29 CFR 1910.1200)WHMIS Classification:D2B - eye irriatantCERCLA and SARA:No listed components.	1910.1200: WHMIS Classification:	(29 CFR 1910.1200) D2B - eye irriatant
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Section 16:	OTHER INFORMATIC	ON	
% Volatile Organ Compounds (VO			
Legend:	N.D. Not Determined	N.E. Not Established	N.A. Not Applicable
The information provided has been adapted from the manufacturer supplied MSDS.			
The information provide habit and the back and the management has been information any monthly available			

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 use of MSDS information.



Always follow label instructions and warnings. Typical use of product is a guideline only.

Typical Use of St Product:	tain treatment, carpet, other household applications.
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NFPA	HMIS	PPE	Transport Symbol
	Health Hazard1Fire Hazard0Reactivity0		
Issuing Date 28-Jul-2009	Revision Date 2	28-Jul-2009	Revision Number 1
	1. PRODUCT AND CO	MPANY IDENTIFICATION	
Product Name	Moisturizing Hand Soap Simply Right		
Recommended Use	Liquid hand soap. Personal care.		
Supplier Address APOLLO HEALTH AND BEAUTY CARE 20 GRANITERIDGE ROAD.			

20 GRANITERIDGE ROAD, CONCORD, ONTARIO, L4K 5M8 CA Phone:905 695 3700 Fax:905 695 3701 Contact: Derek Sanderson Contact Phone:905-695-3700-203 Emergency Phone: 905 695 3700

Company Emergency Phone Number 905 695 3700

	2. HAZARDS IDENTIFICATION	
CAUTION!		
	Emergency Overview May cause eye irritation	
Appearance White	Physical State Liquid, Viscous liquid.	Odor Slight
Potential Health Effects Principle Routes of Exposure	Eye contact, Skin contact, Inhalation.	
Acute Toxicity Eyes Skin Inhalation Ingestion	May cause irritation. No known effect based on information supplied. No known effect based on information supplied. No hazard from product as supplied.	
Chronic Effects	No known effect based on information supplied.	
Aggravated Medical Conditions	None known.	
Environmental Hazard	See Section 12 for additional Ecological Information.	

Revision Date 28-Jul-2009

1029246 - Moisturizing Hand Soap

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7732-18-5	60-100
Sodium laureth sulfate	1335-72-4	7-13
Sodium chloride (NaCl)	7647-14-5	3-7
Glycol distearate	627-83-8	1-5
Cocamidopropyl betaine	83138-08-3	1-5

4. FIRST AID MEASURES

	5. FIRE-FIGHTING MEASURES
Notes to Physician	Treat symptomatically.
Ingestion	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.
Skin Contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If irritation persists, call a physician.

Flammable Properties	Not flammable.
Flash Point	250°C / 482°F
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous Combustion Products	Carbon oxides.
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No. No.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical
				Hazards -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with eyes.
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

1029246 - Moisturizing Hand Soap

7. HANDLING AND STORAGE					
Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.				
Storage	Keep container tightly closed.				
8. EXPOSURE CONTROLS / PERSONAL PROTECTION					
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.				
Engineering Measures	Showers Eyewash stations Ventilation systems				
Personal Protective Equipment Eye/Face Protection Skin and Body Protection Respiratory Protection	No special protective equipment required. No special protective equipment required. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.				
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.				
	9. PHYSICAL AND CHEMICAL PROPERTIES				

Appearance White. Odor Slight. **Odor Threshold** No information available **Physical State** Liquid, Viscous liquid pH 7 **Flash Point** 482°F / 250°C **Autoignition Temperature** No information available **Decomposition Temperature** No information available **Boiling Point/Range Melting Point/Range** No information available Flammability Limits in Air No information available **Explosion Limits** Water Solubility Soluble in water. Solubility

Evaporation Rate Vapor Density Partition Coefficient: noctanol/water

No information available

No data available

Vapor Pressure VOC Content Not applicable

No information available No information available No information available No data available

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.	
Incompatible Products	None known.	
Conditions to Avoid	None known.	
Hazardous Decomposition Products	Carbon oxides.	
Hazardous Polymerization	Hazardous polymerization does not occur.	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

1029246 - Moisturizing Hand Soap

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium laureth sulfate	1288 mg/kg (Rat)	-	3900 mg/m ³ (Rat) 1 h
Sodium chloride (NaCl)	-	10 g/kg (Rabbit)	42 g/m3 (Rat) 1 h

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Contaminated Packaging	Dispose of in accordance with local regulations.
California Hazardous Waste Codes	561

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Does not Comply
EINECS/ELINCS	Does not Comply
ENCS	Does not Comply
IECSC	Does not Comply
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

U.S. Federal Regulations

Reactive Hazard

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

No No No

No

SARA 311/312 Hazard Categories	
Acute Health Hazard	
Chronic Health Hazard	
Fire Hazard	
Sudden Release of Pressure Hazard	

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

Mexico - Grade

Minimum risk, Grade 0

Canada

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.

WHMIS Hazard Class

Non-controlled

1029246 - Moisturizing Hand Soap

16. OTHER INFORMATION

Issuing Date	28-Jul-2009
Revision Date	28-Jul-2009
Revision Note	No information available

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

Date of Preparation	: January 6, 2006	MSDS : T1640KU1W		
Date of Revised	:	Page 1 of 6		
SECTION 1 CHEMICA	L PRODUCT AND COMPANY I	DENTIFICATION		
Product Name	: T-1640 Black Toner			
Used for	: Toshiba Copiers, e-STUDIO 163,	, 165, 203 and 205		
Company Name	: Toshiba TEC Corporation	· ·		
Address	: 2-17-2, Higashigotanda, Shinagaw	/a-ku, Tokyo, 141-8664, Japan		
Telephone Number	: +81-3-6422-7753			
Manufacturer Name	: (1) Toshiba Copying Machine Co., District No. 27 Bao An ShenZhen China 518101			
Contact	: (1) Toshiba America Business Solu Emergency Telephone. No.	: +1-800-424-9300		
		For calls within the U.S. only.		
	(2) Toshiba of Canada Limited			
	Telephone. No.	: +1-905-405-3500		

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS No.	<u>wt.%</u>
Polyester resin		85-95
Carbon black	1333-86-4	4-8
Wax		3-6
Silica		<1
Organic Metal Complex		<1

- TRADE SECRET

SECTION 3 HAZARDS IDENTIFICATION

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Emergency Overview	: If used as intended, the product does not present acute or chronic health hazard.
Physical Hazards	 This product is not classified as flammable or combustible. It will burn in case of fire.
Routes of Exposure	Avoid contact with strong oxidizers such as chromate, bromate and nitrates. : Inhalation, dermal contact, incidental ingestion
riouids of Exposure	

Product Identity	:	T-1640	Black Toner	MSDS:T1640KU1W Page 2 of 6
Inhalation	:	Excessive throat and	e inhalatiòn may cause ir d respiratory tract.	ritation of the nose,
Eye Contact	:	Non-irritar		
Dermal Contact	:	: Non-irritant, non-sensitiser.		
Ingestion		: Not currently known.		
Chronic Effects	:	: See Section 11 Supplemental Health Information.		
Carcinogenicity	:	: See Section 11 Supplemental Health Information.		
Reproductive/Developmental	:	Not Identif	fied.	
Target Organs	: Prolonged breathing of high concentrations may cause			entrations may cause
	adverse effects on the respiratory system.			system.
Signs and Symptoms of Expo	sui	е		
	:	Prolonged	d exposure to dusts of th	is product may irritate the respiratory system.
Medical Conditions Aggravate	d l	by Exposur	re to This Product	
	:	Respirator	ry disorders, such as ast	hma, may be aggravated
		by prolong	ged exposure to high cor	centrations of this product.
SECTION 4 FIRST AID	ME	ASURE	<u>S</u>	
Eye Contact	:	Immediate	y flush eyes with plenty	of water for at least 15 minutes.
			persists, call a physiciar	
Skin Contact			soap and water. Wash	
			occurs or is persistent, s	
Ingestion			nach contents with seve	
Inhalation			om exposure area to fre	

Remove from exposure area to fresh air immediately.
 Contact a physician if there is any difficulty in breathing or other signs of distress.

SECTION 5 FIRE FIGHTING MEASURES

General Hazard	: Product will burn in case of fire.
Flash Point	: Not applicable
Flammable Limits	: Not applicable
Autoignition Temperature	: Not applicable
Flammability classification	: Not applicable
Extinguishing Media	: Foam, halon, carbon dioxide, dry chemical & water fog.
Unusual Fire & Explosion Ha	· · · ·
	: Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
Fire Fighting Procedures	: None
Hazardous Combustion Prod	lucts

: Carbon monoxide, carbon dioxide and smoke.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spills or Leaks

: Vacuum-clean spilled toner and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

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Product Identity	: T-1640 Black Toner MSDS : T1640KU1W Page 3 of 6
SECTION 7 HANDLIN	IG AND STORAGE
Handling	: Avoid dust, keep away from ignition sources.
Prevention of Fire and Exp	losion
	: This material is capable of creating a dust explosion.
	Keep away from heat, sparks & flame.
Storage	: Keep container in cool and dry area.
Hyglenic Practices	: Avoid inhalation and ingestion. Avoid getting in eyes, on skin or clothing
	Wash hands thoroughly after handling, and before eating, drinking,
	or smoking.
SECTION 8 EXPOSU	RE CONTROLS/PERSONAL PROTECTION
Exposure Limits	
OSHA PELs (TWA)	
as the product	: 15mg/m ³ (Total dust)
	5mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
ACGIH TLVs (TWA)	
as the product	: 10mg/m ³ (Total dust)
	3mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
DFG-MAK (TWA)	
as the product	: 4mg/m ³ (Inhalable fraction)
	1.5mg/m ³ (Respirable fraction)
All substances	: Not listed
NOHSC (TWA)	
All substances	: Not listed
Engineering Controls	: Maintaln adequate ventilation.
Eye Protection	: Not required under intended use.
Skin Protection	: Not required under intended use.
Respiratory Protection	: Not required under intended use.
SECTION 9 PHYSICA	LAND CHEMICAL PROPERTIES
Appearance	: Fine solid powder
Color	: Black
Scent	: Odoriess
Melting Point	: 110 - 150 degree (Softening point)
Specific Gravity(H2O=1)	: 1.1 - 1.5
Vapor Pressure	: Not applicable
Vapor Density (Air=1) :	: Not applicable
Evaporation Rate	: Not applicable
Solubility in Water	: Negligible
pH Value	: Not a water-based product, therefore not applicable.

Product Identity

: T-1640 Black Toner

MSDS : T1640KU1W Page 4 of 6

SECTION 10 STABILITY AND REACTIVITY

OF OLOU IN OLUTION	ANDREACTIVITY
Stability	: Stable
Incompatibility	: Not Identified.
Hazardous Decomposition Pr	oducts
	: Carbon monoxide and carbon dioxide.
Hazardous Polymerization:	: Will not occur.
SECTION 11 SUPPLEN	IENTAL HEALTH INFORMATION
Acute oral toxicity	: LD50 is greater than 2,000mg/kg.
	(This was the highest attainable mass.)
Acute inhalation	LC50(4H) is in excess of 5.16mg/l.
	(This was the highest attainable concentration.)
Eye irritation	: Non-irritant.
Skin irritation	: Non-irritant.
Skin sensitization	: Non-sensitiser.
Mutagenicity	: Negative in the Ames test.
Carcinogenicity :	In 1996, the IARC classified carbon black as a Group 2B carcinogen
	(possible human carcinogen).
Chronic Effects :	: In a study in rats by chronic inhalation exposure to a typical toner, a mild
	to moderate degree of lung fibrosis was observed in 92 % of the rats in
	the high concentration (16 mg/m ³)exposure group, and a minimal to mild
	degree of fibrosis was noted in 22% of the animals in the middle (4
	mg/m ³) exposure group. These findings are attributed to "lung
	overloading", a general response to excessive amounts of any dust

SECTION 12 ECOLOGICAL INFORMATION

Aquatic environmennt

: LC50 is greater thar 0.7mg/L (fish) : EC50 is greater thar 0.7mg/L (daphnia) (This was the highest attainable mass.)

retained in the lungs for a prolonged period.

SECTION 13 DISPOSAL CONSIDERATION

Dispose of In accordance with local, state and federal regulation. Empty plastic container may be recycled.

SECTION 14 TRANSPORTATION INFORMATION

Special Precautions		None
International Transport Information	ati	on
UN Classification Number	:	Not applicable
DOT Identification Number	:	Not applicable
Domestic Transportation	:	Not applicable
Other Information	:	Not applicable

Product Identity

: T-1640 Black Toner

MSDS: T1640KU1W Page 5 of 6

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SECTION 15 REGULAT	ORY INFORMATION	
IARC	: See section 11.	
US/Canada Information		
OSHA Hazard Communica	ation Standard, 29CFR 1910. 1200	
	: Not regulated.	
Toxic Substance Control		
	: All chemical substances in this product comply with	
	all applicable rules or orders under TSCA.	
RCRA (40 CFR 261)	: Product or components not listed.	
CERCLA/SARA Informatio	n: Not regulated.	
NTP Annual Report on Ca	÷	
	: Not listed as an NTP carcinogen.	
California Proposition 65	: Neither toner, or any of the components, are listed as chemicals known	
	to the State of California to cause cancer or reproductive system effects.	
Controlled Products Regulations(Canada)		
	: This product has been classified in accordance with the hazard criteria	
	of the CPR.	
Workplace Hazardous Ma	terials Information System(Canada)	
	: No toxicology information available	
Other State Regulations	: Carbon black is listed in the New Jersey Right to Know List,	
	Pennsylvania Hazardous Substance List, and Massachusetts Substance List.	
U.S./Canada Label Stater		
	: LOW HAZARD FOR RECOMMENDED HANDLING. Minimize dust	
	generation and accumulation. Use with adequate ventilation.	
EU Information	·	
	ng to Directives 67/548 EEC & 1999/45 EC	
Symbol & Indication	: Not required	
Risk Phrase	: Not required	
Safety Advise Phrase	: Not required	
76/769/EEC	: All chemical substances in this product comply with all	
	applicable rules or order under 76/769/EEC.	
National requirement :	: No specific regulations or restrictions.	
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SECTION 16 OTHER INFORMATION

18800	ciation (NFPA) Classification :
;	1
:	0
:	0
	(0 = insignificant, 1 = slight)
rmati	ion Systems (HMIS) :
:	1
:	0
:	0
	(0 = insignificant, 1 = slight)
	: : rmat : :

\bigcirc	Product Identity	: T-1640 Black Toner	MSDS : T1640KU1W Page 6 of 6
	Notice	: Judgments as to the suitability of info purposes are necessarily purchaser's Therefore, although reasonable care such information, Toshiba Corporation representations, and assumes no res or suitability of such information for an intended purposes or for consequenc	responsibility. has been taken in the preparation of n extends no warranties, makes no ponsibility as to the accuracy oplication to purchaser's
	References	 IARC (1996) IARC Monographs on th Carcinogenic Risks of Chemicals to H Processes and Printing Inks, Carbon Compounds, Lyon, pp. 149-261. H. Muhle, B. Bellmann, O. Creutzenba H. Ernst, R. Kilpper, J. C. MacKenzie, S. Takenaka, and R. Mermelstein (19 Pulmonary Response to Toner upon C in Rats, Fundamental and Applied Top 	lumans, Vol. 65, Érinting Black and Some Nitro erg, C. Dasenbrock, , P. Morrow, U. Mohr, 91). Chronic Inhalation Exposure
(Abbreviation	 (1) OSHA PEL stands for Permissible Occupational Safety and Health A (2) ACGIH TLV stands for Threshold I Conference of Governmental Indu (3) DFG-MAK stands for Maximale Ar Deutsche Forschungsgemeinscha (4) TWA stands for Time Weighted Av (5) IARC stands for International Ager (6) NTP stands for National Toxicolog (7) NIOSH stands for National Institute Health (USA). (8) DOT stands for Department of Tra (9) NOHSC stands for National Occup (Australia). 	Administration (USA). Limit Value under American Istrial Hygienists (USA). beitsplatzkonzentrationen under aft. rerage. ncy for Research on Cancer. y Program (USA). e for Occupational Safety and nsportation (USA).
	Prepared by	: Toshiba TEC Corporation Quality Assurance Department 6-78 Minami-cho, Mishima-shi, Shizuo 411-8520 Japan	ika-ken,

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TOSHIBA

MATERIAL SAFETY DATA SHEET

Date of Preparation Date of Revised

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: January 1, 2008

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MSDS: T4520KJ1J Page 1 of 6

SECTION 1 CHEMICAL	PRODUCT AND COMPANY	IDENTIFICATION
Product Name	: T-4520 Black Toner	
Used for	: Toshiba Copiers, e-STUDIO 3	53 and 453
Company Name	: Toshiba TEC Corporation	
Address	: 2-17-2, Higashigotanda, Shinag	awa-ku Tokyo 141-8664 Japan
Telephone Number	: +81-3-6422-7753	
Manufacturer Name	: (1) Toshiba America Business S	Solutions Inc
	Toner Products Division	-
		t, Mitchell, SD. 57301-0070 U.S.A.
Contact	: (1) Toshiba America Business S	olutions, Inc.
	Emergency Telephone, No.	: +1-800-424-9300
		For calls within the U.S. only.
	(2) Toshiba of Canada Limited	,,
	Telephone. No.	: +1-905-470-3500
· ,	•	For calls within Canada only.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS No.	<u>_wt.%</u>
Styrene acrylate copolymer		90-95
Carbon black	1333-86-4	4-6
Organic Pigment		<5
Amorphous Silica	7631-86-9	<1
		Trade Secret

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview	: If used as intended, the product does not present acute or chronic health hazard.
Physical Hazards	 This product is not classified as flammable or combustible. It will burn in case of fire.
Routes of Exposure	Avoid contact with strong oxidizers such as chromate, bromate and nitrates. : Inhalation, dermal contact, incidental ingestion

Product Identity

: T-4520 Black Toner

MSDS: T4520KJ1J Page 2 of 6

Inhalation	: Excessive inhalation may cause irritation of the nose, throat and respiratory tract.
Eve Contact	: Non-irritant
Dermal Contact	: Non-irritant, non-sensitiser.
Ingestion	: Not currently known.
Chronic Effects	: See Section 11 Supplemental Health Information.
Carcinogenicity	: See Section 11 Supplemental Health Information.
Reproductive/Developmental	: Not identified.
Target Organs	: Prolonged breathing of high concentrations may cause
	adverse effects on the respiratory system.
Signs and Symptoms of Expo	sure
	: Prolonged exposure to dusts of this product may irritate the respiratory system.

Medical Conditions Aggravated by Exposure to This Product

: Respiratory disorders, such as asthma, may be aggravated by prolonged exposure to high concentrations of this product.

SECTION 4 FIRST AID MEASURES

Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes.
	If irritation persists, call a physician.
Skin Contact	: Wash with soap and water. Wash clothing before reuse.
	If irritation occurs or is persistent, seek medical attention.
Ingestion	: Dilute stomach contents with several glasses of water.
Inhalation	: Remove from exposure area to fresh air immediately.
	Contact a physician if there is any difficulty in breathing or other signs of distress.

SECTION 5 FIRE FIGHTING MEASURES

General Hazard	: Product will burn in case of fire.
Flash Point	: Not applicable
Flammable Limits	: Not applicable
Autolgnition Temperature	: Not applicable
Flammability classification	: Not applicable
Extinguishing Media	: Foam, halon, carbon dioxide, dry chemical & water fog.
Unusual Fire & Explosion Ha	· · · · ·
· ·	: Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
Fire Fighting Procedures	: None
Hazardous Combustion Prod	lucts

: Carbon monoxide, carbon dioxide and smoke.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spills or Leaks

: Vacuum-clean spilled toner and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

Product I	dentity	: T-4520	Black Toner	MSDS : T4520KJ1J Page 3 of 6
ECTION 7				

SECTION 7 HANDLING AND STORAGE

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Handling	: Avoid dust, keep away from ignition sources.
Prevention of Fire and E	Explosion
	: This material is capable of creating a dust explosion.
	Keep away from heat, sparks & flame.
Storage	: Keep container in cool and dry area.
Hygienic Practices	: Avoid inhalation and ingestion. Avoid getting in eyes, on skin or clothing.
	Wash hands thoroughly after handling, and before eating, drinking,
	or smoking.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	
OSHA PELs (TWA)	
as the product	: 15mg/m ³ (Total dust) 5mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
ACGIH TLVs (TWA)	
as the product	: 10mg/m ³ (Total dust)
	3mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
DFG-MAK (TWA)	
as the product	: 4mg/m ³ (Inhalable fraction)
	1.5mg/m ³ (Respirable fraction)
All substances	: Not listed
NOHSC (TWA)	
All substances	: Not listed
Engineering Controls	: Maintain adequate ventilation.
Eye Protection	: Not required under intended use.
Skin Protection	: Not required under intended use.
Respiratory Protection	: Not required under intended use.

SECTION 9	<u>PHYSICAL AI</u>	ND CHEMICAL PROPERTIES
Appearance	:	Fine solid powder
Color	:	Black
Scent	:	Odorless
Melting Point	:	110 - 150 degree (Softening point)
Specific Gravity	(H2O=1) :	1.1 - 1.5
Vapor Pressure) :	Not applicable
Vapor Density ((Air=1) : :	Not applicable
Evaporation Ra	te :	Not applicable
Solubility in Wa	ter :	Negligible
pH Value	;	Not a water-based product, therefore not applicable.

Product Identity

: T-4520 Black Toner

MSDS : T4520KJ1J Page 4 of 6

SECTION 10 STABILITY	AND REACTIVITY		
Stability	: Stable		
Incompatibility	: Not Identified.		
Hazardous Decomposition Pi	roducts		
	: Carbon monoxide and carbon dioxide.		
Hazardous Polymerization:	: Will not occur.		
SECTION 11 SUPPLEM	IENTAL HEALTH INFORMATION		
Acute oral toxicity	: LD50 is greater than 5,000mg/kg.		
	(This was the highest attainable mass.)		
Acute inhalation	: LC50(4H) is in excess of 5.31mg/l.		
	(This was the highest attainable concentration.)		
Eye irritation	: Non-irritant.		
Skin irritation	: Non-Irritant.		
Skin sensitization	: Non-sensitiser.		
Mutagenicity	: Negative in the Ames test.		
Carcinogenicity :	In 1996, the IARC classified carbon black as a Group 2B carcinogen (possible human carcinogen).		
Chronic Effects :	: In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92 % of the rats in the high concentration (16 mg/m ³)exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4		
	mg/m ³) exposure group. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust retained in the lungs for a prolonged period.		

SECTION 12 ECOLOGICAL INFORMATION

This material has not been tested concerning environmental effects (fish toxicity, bird toxicity, invertebrate toxicity, phyto-toxicity and environmental fate).

SECTION 13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation. Empty plastic container may be recycled.

SECTION 14 TRANSPORTATION INFORMATION

Special Precautions : None

International Transport Information		
UN Classification Number	:	Not applicable
DOT Identification Number	:	Not applicable
Domestic Transportation	:	Not applicable
Other Information	:	Not applicable

MSDS : T4520KJ1J

Product Identity

: T-4520 Black Toner

Page 5 of 6 SECTION 15 REGULATORY INFORMATION **IARC** : See section 11. **US/Canada Information** OSHA Hazard Communication Standard, 29CFR 1910. 1200 : Not regulated. Toxic Substance Control Act (TSCA) : All chemical substances in this product comply with all applicable rules or orders under TSCA. RCRA (40 CFR 261) : Product or components not listed. CERCLA/SARA Information : Not regulated. NTP Annual Report on Carcinogens : Not listed as an NTP carcinogen. California Proposition 65 : Neither toner, or any of the components, are listed as chemicals known to the State of California to cause cancer or reproductive system effects. **Controlled Products Regulations(Canada)** : This product has been classified in accordance with the hazard criteria of the CPR. Workplace Hazardous Materials Information System(Canada) : No toxicology information available Other State Regulations : Carbon black is listed in the New Jersey Right to Know List, Pennsylvania Hazardous Substance List, and Massachusetts Substance List. **U.S./Canada Label Statements** : LOW HAZARD FOR RECOMMENDED HANDLING. Minimize dust generation and accumulation. Use with adequate ventilation. **EU Information** Label Information According to Directives 67/548 EEC & 1999/45 EC Symbol & Indication : Not required **Risk Phrase** : Not required Safety Advise Phrase : Not required 76/769/EEC : All chemical substances in this product comply with all applicable rules or order under 76/769/EEC. National requirement : : No specific regulations or restrictions.

SECTION 16 OTHER INFORMATION

National Fire Protection Association (NFPA) Classification : Flammability : 1 Reactivity 0 : Health 0 : (0 = insignificant, 1 = slight) Hazardous Materials Information Systems (HMIS) : Red (Flammability) : 1 Yellow (Reactivity) : 0 Blue (Acute Effects) : 0 (0 = insignificant, 1 = slight)

Product Identity	MATERIAL SAFETY D : T-4520 Black Toner	MSDS : T4520KJ1J Page 6 of 6
Notice		er's responsibility. re has been taken in the preparation of tion extends no warranties, makes no responsibility as to the accuracy r application to purchaser's
References	 IARC (1996) IARC Monographs or Carcinogenic Risks of Chemicals to Processes and Printing Inks, Carbo Compounds, Lyon, pp. 149-261. H. Muhle, B. Bellmann, O. Creutze H. Ernst, R. Kilpper, J. C. MacKenz S. Takenaka, and R. Mermelstein (Pulmonary Response to Toner upo in Rats, Fundamental and Applied 	o Humans, Vol. 65, Printing on Black and Some Nilro nberg, C. Dasenbrock, zie, P. Morrow, U. Mohr, (1991). on Chronic Inhalation Exposure
Abbreviation	 (1) OSHA PEL stands for Permissi Occupational Safety and Healt (2) ACGIH TLV stands for Thresho Conference of Governmental II (3) DFG-MAK stands for Maximale Deutsche Forschungsgemeins (4) TWA stands for Time Weighted (5) IARC stands for International A (6) NTP stands for National Toxico (7) NIOSH stands for National Instituent Health (USA). (8) DOT stands for Department of (9) NOHSC stands for National Occurrent 	h Administration (USA). Id Limit Value under American ndustrial Hygienists (USA). Arbeitsplatzkonzentrationen under chaft. Average. gency for Research on Cancer. logy Program (USA). tute for Occupational Safety and
Prepared by	: Toshiba TEC Corporation Quality Assurance Div. Document Processing & Telecomm 6-78 Minami-cho, Mishima-shi, Shi 411-8520 Japan	

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Date of Preparation Date of Revised	: February `15, 2005 :	MSDS:T6000KWU1W Page 1 of 6
SECTION 1 CHEMICAL	PRODUCT AND COMPANY	DENTIFICATION
Product Name	: T-6000 Black Toner	
Used for	: Toshiba Copiers, e-STUDIO 520	0, 600, 720 and 850
Company Name	: Toshiba TEC Corporation	· · ·
Address Telephone Number	: 2-17-2, Higashigotanda, Shinaga : +81-3-6422-7753	wa-ku, Tokyo, 141-8664, Japan
Manufacturer Name	: (1) Toshiba America Business So Toner Products Division (901 North Foster Street	
	·	
Contact	: (1) Toshiba America Information	Systems, Inc.
	Emergency Telephone. No.	: +1-800-424-9300 For calls within the U.S. only.
	(2) Toshiba of Canada Limited	
	Telephone. No.	: +1-905-405-3500 For calls within Canada only.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS No.	wt.%
Polyester resin	*	85-95
Carbon black	1333-86-4	4-8
Wax		<5
Organic pigment		<1
		Trade Secret

SECTION 3 HAZARDS IDENTIFICATION

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Emergency Overview	 If used as intended, the product does not present acute or chronic health hazard.
Physical Hazards	 This product is not classified as flammable or combustible. It will burn in case of fire.
Routes of Exposure	Avoid contact with strong oxidizers such as chromate, bromate and nitrates. : Inhalation, dermal contact, incidental ingestion

Product Identity : T-6000 Black Toner

MSDS: T6000KWU1W Page 2 of 6

Inhalation	: Excessive inhalation may cause irritation of the nose,
	throat and respiratory tract.
Eye Contact	: Non-irritant.
Dermal Contact	: Non-irritant, non-sensitiser.
Ingestion	: Not currently known.
Chronic Effects	: See Section 11 Supplemental Health Information.
Carcinogenicity	: See Section 11 Supplemental Heaith Information.
Reproductive/Developmental	: Not identified.
Target Organs	: Prolonged breathing of high concentrations may cause
	adverse effects on the respiratory system.
Signs and Symptoms of Expo	sure
	: Prolonged exposure to dusts of this product may irritate the respiratory system.
Medical Conditions Aggravate	ed by Exposure to This Product

: Respiratory disorders, such as asthma, may be aggravated

by prolonged exposure to high concentrations of this product.

SECTION 4 FIRST AID MEASURES

Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes.
• •	If irritation persists, call a physician.
Skin Contact	: Wash with soap and water. Wash clothing before reuse.
	If irritation occurs or is persistent, seek medical attention.
Ingestion	: Dilute stomach contents with several glasses of water.
Inhalation	: Remove from exposure area to fresh air immediately.
	Contact a physician if there is any difficulty in breathing or other signs of distress.

SECTION 5 FIRE FIGHTING MEASURES

General Hazard	: Product will burn in case of fire.
Flash Point	: Not applicable
Flammable Limits	: Not applicable
Autolgnition Temperature	: Not applicable
Flammability classification	Not applicable
Extinguishing Media	: Foam, halon, carbon dioxide, dry chemical & water fog.
Unusual Fire & Explosion Ha	azard
	: Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
Fire Fighting Procedures	: None
Hazardous Combustion Pro	ducts
	A CONTRACTOR OF A CONTRACTOR O

: Carbon monoxide, carbon dioxide and smoke.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spills or Leaks

: Vacuum-clean spilled toner and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

MATERIAL SAFETY DATA SHEET MSDS : T6000KWU1W

Page 3 of 6

	Floque		: 1-0000	DIACK I ONEL	IVIC
•	SECTION 7	HANDLING	AND STO	RAGE	<u></u>
	Handling			t, keep away from ignit	ion sources.
	Prevention of	Fire and Explos	lon		
			 This mate 	rial is canable of creati	na a dust explosio

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	: This material is capable of creating a dust explosion.
	Keep away from heat, sparks & flame.
Storage	: Keep container in cool and dry area.
Hygienic Practices	 Avoid inhalation and ingestion. Avoid getting in eyes, on skin or clothing. Wash hands thoroughly after handling, and before eating, drinking, or smoking.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	
OSHA PELs (TWA)	
as the product	: 15mg/m ³ (Total dust) 5mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
ACGIH TLVs (TWA)	
as the product	: 10mg/m ³ (Total dust)
	3mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
DFG-MAK (TWA)	
as the product	: 4mg/m ³ (Inhalable fraction)
	1.5mg/m ³ (Respirable fraction)
All substances	: Not listed
NOHSC (TWA)	
All substances	: Not listed
Engineering Controls	: Maintain adequate ventilation.
Eye Protection	: Not required under intended use.
Skin Protection	: Not required under intended use.
Respiratory Protection	: Not required under intended use.

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SECTION 9	PHYSICAL	<u>. Al</u>	ND CHEMICAL PROPERTIES
Appearance		· :	Fine solid powder
Color		:	Black
Scent		;	Odorless
Melting Point		:	110 - 150 degree (Softening point)
Specific Gravi	ty(H2O=1)	:	1.1 - 1.5
Vapor Pressu	6	:	Not applicable
Vapor Density	(Air=1) :	:	Not applicable
Evaporation R	ate	:	Not applicable
Solubility in W	ater	:	Negligible
pH Value		:	Not a water-based product, therefore not ap

: Not a water-based product, therefore not applicable.

Product Identity

MATERIAL SAFETY DATA SHEET

: T-6000 Black Toner

MSDS: T6000KWU1W Page 4 of 6

SECTION 10 STABILITY	Y AND REACTIVITY		
Stability	: Stable		
Incompatibility	: Not identified.		
Hazardous Decomposition P	roducts		
	: Carbon monoxide and carbon dioxide.		
Hazardous Polymerization:	: Will not occur.		
SECTION 11 SUPPLEN	MENTAL HEALTH INFORMATION		
Acute oral toxicity	: LD50 is greater than 2,500mg/kg.		
	(This was the highest attainable mass.)		
Acute inhalation	: LC50(4H) is in excess of 5.18mg/l.		
	(This was the highest attainable concentration.)		
Eye irritation	: Non-irritant.		
Skin irritation	: Non-irritant.		
Skin sensitization	: Non-sensitiser.		
Mutagenicity	: Negative in the Ames test.		
Carcinogenicity :	 In 1996, the IARC classified carbon black as a Group 2B carcinogen (possible human carcinogen). 		
Chronic Effects :	: In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92 % of the rats in the		
	high concentration (16 mg/m ³)exposure group, and a minimal to mild		
	degree of fibrosis was noted in 22% of the animals in the middle (4		
	mg/m ³) exposure group. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust		
	retained in the lungs for a prolonged period.		

SECTION 12 ECOLOGICAL INFORMATION

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 Aquatic environmennt 	: LC50 is greater than limit of saturation	(fish)
	: EC50 is greater than limit of saturation	(daphnia)
	: Algal Growth Inhibition limit of saturation	

SECTION 13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation. Empty plastic container may be recycled.

SECTION 14 TRANSPORTATION INFORMATION

Special Precautions	: None
International Transport Informa	ation
UN Classification Number	: Not applicable
DOT Identification Number	: Not applicable
Domestic Transportation	: Not applicable
Other Information	: Not applicable

MATERIAL SAFETY DATA SHEET: T-6000Black TonerMSDS : Total

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ironment.Directive 76/769/EE

Product Identity

ATERIAL SAFETY DATA SHEET

: T-6000 Black Toner MSDS : T6000KWU1W Page 6 of 6 Notice : 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 such information, Toshiba Corporation extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use. References : IARC (1996) IARC Monographs on the Evaluation of the Carcinogenic Risks of Chemicals to Humans, Vol. 65, Printing Processes and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp. 149-261. H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991). Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, Fundamental and Applied Toxicology 17, pp. 280-299. : (1) OSHA PÉL stands for Permissible Exposure Limit under Abbreviation Occupational Safety and Health Administration (USA). (2) ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA). (3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft. (4) TWA stands for Time Weighted Average. (5) IARC stands for International Agency for Research on Cancer. (6) NTP stands for National Toxicology Program (USA). (7) NIOSH stands for National Institute for Occupational Safety and Health (USA). (8) DOT stands for Department of Transportation (USA). (9) NOHSC stands for National Occupational Heath and Safety Commission (Australia). Prepared by : Toshiba TEC Corporation **Quality Assurance Department** 6-78 Minami-cho, Mishima-shi, Shizuoka-ken, 411-8520 Japan

Date of Preparation Date of Revised	: March 20, 2008 :	MSDS:TFC28YU1W Page 1 of 6
SECTION 1 CHEMICA	L PRODUCT AND COMPANY : T-FC28 -Y Yellow Toner	IDENTIFICATION
Used for Company Name Address	: Toshiba Copiers, e-STUDIO 23 : Toshiba TEC Corporation : 2-17-2, Higashigotanda, Shinaga	330C,2820C,2830C,3520C,3530C and 4520 awa-ku, Tokyo, 141-8664, Japan
Telephone Number Manufacturer Name	: +81-3-6422-7753 : (1) Toshiba America Business S Toner Products Division 901 North Foster Street,	
Contact	: (1) Toshiba America Business S Emergency Telephone. No.	: +1-800-424-9300
	(2) Toshiba of Canada Limited Telephone. No.	For calls within the U.S. only. : +1 905 470 3500 For calls within Canada only.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS No.	<u>wt.%</u>
Polyester resin	' -	80-90
Organic Pigment		<10
Wax		<10
Amorphous Silica	7631-86-9	<5
Titanium dioxide	13463-67-7	<2

TRADE SECRET

SECTION 3 HAZARDS IDENTIFICATION

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Emergency Overview	 If used as intended, the product does not present acute or chronic health hazard.
Physical Hazards	 This product is not classified as flammable or combustible. It will burn in case of fire.
	Avoid contact with strong oxidizers such as chromate, bromate and nitrates.
Routes of Exposure	: Inhalation, dermal contact, incidental ingestion
Inhalation	: Excessive inhalation may cause initation of the nose, throat and respiratory tract.
Eye Contact	: Non-irritant.
Dermal Contact	: Non-Irritant, non-sensitiser.
Ingestion	: Not currently known.
Chronic Effects	: See Section 11 Supplemental Health Information.
Carcinogenicity	: See Section 11 Supplemental Health Information.

Product Identity	: T-FC28 -Y Yellow Toner MSDS : TFC28YU1W Page 2 of 6
Reproductive/Development	tal : Not identified.
Target Organs	 Prolonged breathing of high concentrations may cause adverse effects on the respiratory system.
Signs and Symptoms of Ex	
	: Prolonged exposure to dusts of this product may irritate the respiratory system
Medical Conditions Aggravi	ated by Exposure to This Product
	: Respiratory disorders, such as asthma, may be aggravated
	by prolonged exposure to high concentrations of this product.

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SECTION 5 FIRE FIGHTING MEASURES

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General Hazard	: Product will burn in case of fire.
Flash Point	: Not applicable
Flammable Limits	: Not applicable
Autoignition Temperature	: Not applicable
Flammability classification	: Not applicable
Extinguishing Media	: Foam, halon, carbon dioxide, dry chemical & water fog.
Unusual Fire & Explosion Ha	
	: Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
Fire Fighting Procedures	: None
Hazardous Combustion Prod	lucts

: Carbon monoxide, carbon dioxide and smoke.

Spills or Leaks : Vacuum-clean spilled toner ar

: Vacuum-clean spilled toner and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

SECTION 7 HANDLING AND STORAGE

Handling	: Avold dust, keep away from ignition sources.
Prevention of Fire and E	xplosion
	: This material is capable of creating a dust explosion.
	Keep away from heat, sparks & flame.
Storage	: Keep container in cool and dry area.
Hygienic Practices	: Avoid Inhalation and ingestion. Avoid getting in eyes, on skin or clothing.
	Wash hands thoroughly after handling, and before eating, drinking, or smoking.

Product Identity

: T-FC28 -Y Yellow Toner

MSDS : TFC28YU1W Page 3 of 6

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SECTION 8 EXPOSU	RE CONTROLS/PERSONAL PROTECTION
Exposure Limits	
OSHA PELs (TWA)	
as the product	: 15mg/m ³ (Total dust) 5mg/m ³ (Respirable fraction)
Other substances	: Not listed
ACGIH TLVs (TWA)	
as the product	: 10mg/m ³ (Total dust) 3mg/m ³ (Respirable fraction)
Other substances	: Not listed
DFG-MAK (TWA)	
as the product	: 4mg/m ³ (Inhalable fraction) 1.5mg/m ³ (Respirable fraction)
All substances	: Not listed
NOHSC (TWA)	
All substances	: Not listed
Engineering Controls	: Maintain adequate ventilation.
Eye Protection	: Not required under intended use.
Skin Protection	: Not required under intended use.
Respiratory Protection	: Not required under intended use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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SECTION 10 STABILITY AND REACTIVITY

Stability	: Stable
Incompatibility	: Not identified.
Hazardous Decomposit	ion Products
	: Carbon monoxide and carbon dioxide.
Hazardous Polymerizati	on: 💼 : Will not occur.

Product Identity

: T-FC28 -Y Yellow Toner

MSDS : TFC28YU1W Page 4 of 6

SECTION 11 SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity	: LD50 is greater than	2,000mg/kg.
	(This was the highest attaina	ible mass.)
Acute inhalation	: LC50(4H) is in excess of	5.30mg/l.
	(This was the highest attaina	ble concentration.)
Eye irritation	: Non-irritant.	
Skin irritation	: Non-irritant,	
Skin sensitization	: Non-sensitiser.	
Mutagenicity	: Negative in the Ames test.	
Carcinogenicity :	: None known	
Chronic Effects :	: None known	

SECTION 12 ECOLOGICAL INFORMATION

Aquatic environmennt: LC50 is greater than1000mg/L (fish): EC50 is greater than1000mg/L (daphnia): EC50 is greater than1000mg/L (Algal)(This was the highest attainable mass.)

SECTION 13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation. Empty plastic container may be recycled.

SECTION 14 TRANSPORTATION INFORMATION

Special Precautions: NoneInternational Transport InformationUN Classification Number: Not applicableDOT Identification Number: Not applicableDomestic Transportation: Not applicableOther Information: Not applicable

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SECTION 15 REGULATORY INFORMATION

IARC : See section 11. **US/Canada Information** OSHA Hazard Communication Standard, 29CFR 1910. 1200 : Not regulated. Toxic Substance Control Act (TSCA) : All chemical substances in this product comply with all applicable rules or orders under TSCA. RCRA (40 CFR 261) : Product or components not listed. CERCLA/SARA Information : Not regulated. NTP Annual Report on Carcinogens : Not listed as an NTP carcinogen. **California Proposition 65** : Neither toner, or any of the components, are listed as chemicals known to the State of California to cause cancer or reproductive system effects. Controlled Products Regulations(Canada) : This product has been classified in accordance with the hazard criteria of the CPR.

	Product Identity	: T-FC28 -Y	Yellow Toner	MSDS: TFC28YU1W Page 5 of 6
1	Workplace Hazardous M	aterials information	n System(Canada)	
			/ information available	
	Other State Regulations		he New Jersey Right to I	Know List.
				List, and Massachusetts Substance List.
	U.S./Canada Label State	ments		
		: LOW HAZAF	D FOR RECOMMENDE	D HANDLING. Minimize dust
			nd accumulation. Use wi	
	EU Information			
	Label Information Accordi	ng to Directives 6	7/548 EEC & 1999/45 EC	2
	Symbol & Indication	: Not required		-
	Risk Phrase	: Not required		
	Safety Advise Phrase	: Not required		
	76/769/EEC		substances in this produc	t comply with all
			es or order under 76/769	
	National requirement :		outations or restrictions.	

SECTION 16 OTHER INFORMATION

National Fire Protection Association (NFPA) Classification : Flammability : 1 Reactivity 0 : Health : 0 (0 = insignificant, 1 = slight) Hazardous Materials Information Systems (HMIS) : Red (Flammability) : 1 Yellow (Reactivity) : 0 Blue (Acute Effects) 0 : (0 = insignificant, 1 = slight)Notice : 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 such information, Toshiba Corporation extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

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Product Identity	: T-FC28 -Y Yellow Toner MSDS : TFC28YU1W Page 6 of 6
Abbreviation	: (1) OSHA PEL stands for Permissible Exposure Limit under
	Occupational Safety and Health Administration (USA).
· .	(2) ACGIH TLV stands for Threshold Limit Value under American
	Conference of Governmental Industrial Hygienists (USA).
	(3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft.
	(4) TWA stands for Time Weighted Average.
	(5) NTP stands for National Toxicology Program (USA).
	(6) NIOSH stands for National Institute for Occupational Safety and Health (USA).
	(7) DOT stands for Department of Transportation (USA).
	(8) NOHSC stands for National Occupational Heath and Safety Commission (Australia).
Prepared by	: Toshiba TEC Corporation
•	Quality Assurance Div.
	Document Processing & Telecommunication Systems Company
	6-78 Minami-cho, Mishima-shi, Shizuoka-ken,

411-8520 Japan

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	Date of Preparation	: March 20, 2008	MSDS : TFC28MU1W
	Date of Revised	;	Page 1 of 6
	SECTION 1 CHEMICAL	PRODUCT AND CO	MPANY IDENTIFICATION
	Product Name	: T-FC28 -M Magenta	a Toner
	Used for		STUDIO 2330C,2820C,2830C,3520C,3530C and 452
	Company Name	: Toshiba TEC Corpora	
	Address		la, Shinagawa-ku, Tokyo, 141-8664, Japan
	Telephone Number Manufacturer Name	: +81-3-6422-7753 : (1) Toshiba America I	Juningen Solutions Inc
			s Division (Mitchell Plant)
			ster Street, Mitchell, SD. 57301-0070 U.S.A.
	Contact	: (1) Toshiba America I	
		Emergency Telepl	
		(2) Teshiha of Osurad	For calls within the U.S. only.
		(2) Toshiba of Canad Telephone. No.	a Limited : +1 905 470 3500
		relepitorie. No.	For calls within Canada only.
S		10N/INFORMATION	ON INGREDIENTS
S	INGREDIENT(S)	<u>ΓΙΟΝ/INFORMATION</u> <u>CAS No.</u>	<u>wt.%</u>
	<u>INGREDIENT(S)</u> Polyester resin		<u>wt.%</u> 80-90
<u>_S</u>	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment		<u>wt.%</u> 80-90 <10
	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax	<u>CAS No.</u>	<u>wt.%</u> 80-90 <10 <10
_ <u>S</u>	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment		<u>wt.%</u> 80-90 <10
<u>_</u> S	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax Amorphous Silica	<u>CAS No.</u> 7631-86-9 13463-67-7	<u>wt.%</u> 80-90 <10 <10 <5
	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax Amorphous Silica Titanium dioxide	<u>CAS No.</u> 7631-86-9 13463-67-7	<u>wt.%</u> 80-90 <10 <10 <5 <2
	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax Amorphous Silica Titanium dioxide	<u>CAS No.</u> 7631-86-9 13463-67-7 T <u>IDENTIFICATION</u> : If used as intended, th health hazard.	wt.% 80-90 <10 <5 <2 RADE SECRET ne product does not present acute or chronic
	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax Amorphous Silica Titanlum dioxide	CAS No. 7631-86-9 13463-67-7 T <u>IDENTIFICATION</u> : If used as intended, th health hazard. : This product is not cla it will burn in case of the set o	wt.% 80-90 <10 <5 <2 RADE SECRET ne product does not present acute or chronic assified as flammable or combustible. ire.
	INGREDIENT(S) Polyester resin Organic Pigment Wax Amorphous Silica Titanium dioxide	CAS No. 7631-86-9 13463-67-7 T IDENTIFICATION : If used as intended, th health hazard. : This product is not cla It will burn in case of the formation of the format of	wt.% 80-90 <10
	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax Amorphous Silica Titanium dioxide	CAS No. 7631-86-9 13463-67-7 T IDENTIFICATION : If used as intended, th health hazard. : This product is not cla It will burn in case of i Avoid contact with strr : Inhalation, dermal cor	wt.% 80-90 <10 <5 <2 RADE SECRET ne product does not present acute or chronic assified as flammable or combustible. ire.
	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax Amorphous Silica Titanium dioxide <u>SECTION 3 HAZARDS</u> Emergency Overview Physical Hazards Routes of Exposure Inhalation	CAS No. 7631-86-9 13463-67-7 T IDENTIFICATION : If used as intended, th health hazard. : This product is not cla It will burn in case of f Avoid contact with str : Inhalation, dermal con : Excessive inhalation in throat and respiratory	wt.% 80-90 <10
	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax Amorphous Silica Titanium dioxide <u>ECTION 3 HAZARDS</u> Emergency Overview Physical Hazards Routes of Exposure Inhalation Eye Contact	CAS No. 7631-86-9 13463-67-7 T IDENTIFICATION : If used as intended, th health hazard. : This product is not cla it will burn in case of it Avoid contact with stru- : Inhalation, dermal con : Excessive inhalation in throat and respiratory : Non-irritant.	wt.% 80-90 <10
	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax Amorphous Silica Titanium dioxide <u>ECTION 3 HAZARDS</u> Emergency Overview Physical Hazards Routes of Exposure Inhalation Eye Contact Dermal Contact	CAS No. CAS No. The second s	wt.% 80-90 <10
	<u>INGREDIENT(S)</u> Polyester resin Organic Pigment Wax Amorphous Silica Titanium dioxide <u>ECTION 3 HAZARDS</u> Emergency Overview Physical Hazards Routes of Exposure Inhalation Eye Contact	CAS No. 7631-86-9 13463-67-7 T IDENTIFICATION : If used as intended, th health hazard. : This product is not cla It will burn in case of the Avoid contact with strrthe : Inhalation, dermal contribution of throat and respiratory : Non-irritant. : Non-irritant, non-sensi : Not currently known.	wt.% 80-90 <10

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- Not currently known.
 See Section 11 Supplemental Health Information.
 See Section 11 Supplemental Health Information.

	Product Identity	: T-FC28 -M Magenta Toner MSDS : TFC28MU1W Page 2 of 6
/	Reproductive/Developme	ental : Not identified.
	Target Organs	 Prolonged breathing of high concentrations may cause adverse effects on the respiratory system.
	Signs and Symptoms of	
		: Prolonged exposure to dusts of this product may irritate the respiratory system.
	Medical Conditions Aggr	avated by Exposure to This Product
		: Respiratory disorders, such as asthma, may be aggravated
		by prolonged exposure to high concentrations of this product.
	SECTION 4 FIRST	AID MEASURES
	Eye Contact	: Immediately flush eyes with plenty of water for at least 15 minutes.
	Eye Contact	: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician.
		 Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician. Wash with soap and water. Wash clothing before reuse.
	Eye Contact	: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician.

SECTION 5 FIRE FIGHTING MEASURES

General Hazard	: Product will burn in case of fire.
Flash Point	: Not applicable
Flammable Limits	: Not applicable
Autoignition Temperature	: Not applicable
Flammability classification	: Not applicable
Extinguishing Media	: Foam, halon, carbon dioxide, dry chemical & water fog.
Unusual Fire & Explosion Ha	izard
. •	: Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
Fire Fighting Procedures	: None
Hazardous Combustion Proc	lucts

: Carbon monoxide, carbon dioxide and smoke.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Vacuum-clean spilled toner and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

Contact a physician if there is any difficulty in breathing or other signs of distress.

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SECTION 7 HANDLING AND STORAGE

Spills or Leaks

Handling	: Avold dust, keep away from ignition sources.
Prevention of Fire and E	xplosion
	: This material is capable of creating a dust explosion.
	Keep away from heat, sparks & flame.
Storage	: Keep container in cool and dry area.
Hygienic Practices	 Avoid inhalation and ingestion. Avoid getting in eyes, on skin or clothing. Wash hands thoroughly after handling, and before eating, drinking, or smoking.

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Product Identity

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: T-FC28 -M Magenta Toner

MSDS: TFC28MU1W Page 3 of 6

SECTION 8 EXPOSU	RE CONTROLS/PERSONAL PROTECTION
Exposure Limits	
OSHA PELs (TWA)	
as the product	: 15mg/m ³ (Total dust) 5mg/m ³ (Respirable fraction)
Other substances ACGIH TLVs (TWA)	: Not listed
as the product	: 10mg/m ³ (Total dust) 3mg/m ³ (Respirable fraction)
Other substances DFG-MAK (TWA)	: Not listed
as the product	: 4mg/m ³ (Inhalable fraction) 1.5mg/m ³ (Respirable fraction)
Ail substances NOHSC (TWA)	: Not listed
All substances	: Not listed
Engineering Controls	: Maintain adequate ventilation.
Eye Protection	: Not required under intended use.
Skin Protection	: Not required under intended use.
Respiratory Protection	: Not required under intended use.
SECTION 9 PHYSICAL	AND CHEMICAL PROPERTIES

ROPERTIES

Appearance	: Fine solid powder
Color	: Magenta
Scent	: Odorless
Melting Point	: 110 - 150 degree (Softening point)
Specific Gravity(H2O=1)	: 1.1 - 1.5
Vapor Pressure	: Not applicable
Vapor Density (Air=1)	: Not applicable
Evaporation Rate	: Not applicable
Solubility in Water	: Negligible
pH Value	: Not a water-based product, therefore not applicable.

SECTION 10 STABILITY AND REACTIVITY

Stability	: Stable
Incompatibility	: Not identified.
Hazardous Decomposition P	roducts
	: Carbon monoxide and carbon dioxide.
Hazardous Polymerization:	: Will not occur.

Product Identity

: T-FC28 - M Magenta Toner

MSDS : TFC28MU1W Page 4 of 6

SECTION

SECTION 11 SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity	: LD50 is greater than	2,000mg/kg.
	(This was the highest attaina	ble mass.)
Acute inhalation	: LC50(4H) is in excess of	5.13mg/l.
	(This was the highest attaina	ble concentration.)
Eye irritation	: Non-irritant.	,
Skin irritation	: Non-irritant.	
Skin sensitization	: Non-sensitiser.	
Mutagenicity	: Negative in the Ames test.	
Carcinogenicity :	: None known	
Chronic Effects :	: None known	

SECTION 12 ECOLOGICAL INFORMATION

Aquatic environmennt

: LC50 is greater than	1000mg/L (fish)
: EC50 is greater than	1000mg/L (daphnia)
: EbC50 is greater than	1000mg/L (Algal)
(This was the highest attainable	mass.)

SECTION 13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation. Empty plastic container may be recycled.

SECTION 14 TRANSPORTATION INFORMATION

Special Precautions: NoneInternational Transport InformationUN Classification Number: Not applicableDOT Identification Number: Not applicableDomestic Transportation: Not applicableOther Information: Not applicable

SECTION 15 REGULATORY INFORMATION

IARC	: See section 11.
US/Canada Information	
OSHA Hazard Communica	ition Standard, 29CFR 1910, 1200
	: Not regulated.
Toxic Substance Control A	Act (TSCA)
	: All chemical substances in this product comply with
	all applicable rules or orders under TSCA.
RCRA (40 CFR 261)	: Product or components not listed.
CERCLA/SARA Information	I : Not regulated.
NTP Annual Report on Ca	rcinogens
	: Not listed as an NTP carcinogen.
California Proposition 65	: Neither toner, or any of the components, are listed as chemicals known
	to the State of California to cause cancer or reproductive system effects.
Controlled Products Regula	
	: This product has been classified in accordance with the hazard criteria
	of the CPR.

<u>.</u>	Product Identity	: T-FC28 -M	Magenta Toner	MSDS: TFC28MU1W Page 5 of 6
	Workplace Hazardous Ma	aterials Informatio	n System(Canada)	
		: No toxicology	information available	
	Other State Regulations		he New Jersey Right to K a Hazardous Substance L	now List, ist, and Massachusetts Substance List.
	U.S./Canada Label State			
			D FOR RECOMMENDED nd accumulation. Use with	D HANDLING. Minimize dust h adequate ventilation.
	EU Information			
	Label Information Accordi	ng to Directives 67	7/548 EEC & 1999/45 EC	
	Symbol & Indication	: Not required		
	Risk Phrase	: Not required		
	Safety Advise Phrase	: Not required		
	76/769/EEC		ubstances in this product es or order under 76/769/	
	National requirement :	: No specific re	gulations or restrictions.	

SECTION 16 OTHER INFORMATION

National Fire Protection Association (NFPA) Classification : Flammability : 1 Reactivity : 0 Health 0 : (0 = insignificant, 1 = slight) Hazardous Materials Information Systems (HMIS) : Red (Flammability) : 1 Yellow (Reactivity) 0 : **Blue (Acute Effects)** 0 : (0 = insignificant, 1 = slight)Notice : 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 such information, Toshiba Corporation extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

() -	Product Identity	: T-FC28 -M Magenta Toner MSDS : TFC28MU1W Page 6 of 6
	Abbreviation	 (1) OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health Administration (USA). (2) ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hyglenists (USA). (3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft. (4) TWA stands for Time Weighted Average. (5) NTP stands for National Toxicology Program (USA). (6) NIOSH stands for National Institute for Occupational Safety and Health (USA). (7) DOT stands for Department of Transportation (USA). (8) NOHSC stands for National Occupational Heath and Safety Commission (Australia).
	Prepared by	: Toshiba TEC Corporation Quality Assurance Div. Document Processing & Telecommunication Systems Company 6-78 Minami-cho, Mishima-shi, Shizuoka-ken, 411-8520 Japan

Date of Preparation Date of Revised	: March 20, 2008 :	MSDS:TFC28KU1W Page 1 of 6
	CAL PRODUCT AND COMPA	NY IDENTIFICATION
Product Name Used for Company Name Address Telephone Number Manufacturer Name	: T-FC28 -K Black Toner : Toshiba Copiers, e-STUD : Toshiba TEC Corporation : 2-17-2, Higashigotanda, Sh : +81-3-6422-7753 : (1) Toshiba America Busine Toner Products Divis	IO 2330C,2820C,2830C,3520C,3530C and 45200 inagawa-ku, Tokyo, 141-8664, Japan
		· · ·
Contact	: (1) Toshiba America Busine Emergency Telephone. (2) Toshiba of Canada Limi	No. : +1-800-424-9300 For calls within the U.S. only.
	Telephone. No.	: +1 905 470 3500 For calls within Canada only.
		· · ·
		· .
SECTION 2 COMPO	DSITION/INFORMATION ON	INGREDIENTS
INGREDIENT(S)	CAS No.	wt.%
Polyester resin		80-90
Carbon black	1333-86-4	3-8 <10
Wax Amorphous Silica	7631-86-9	<5
Titanium dioxide	13463-67-7	<2
	TRADE	SECRET
SECTION 3 HAZAR	DS IDENTIFICATION	
Emergency Overview	: If used as intended, the pro health hazard.	duct does not present acute or chronic
Physical Hazards	: This product is not classifie It will burn in case of fire.	d as flammable or combustible.
	Avoid contact with strong a	xidizers such as chromate, bromate and nitrates.

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Product Identity	: T-FC28 -K Black Toner	MSDS : TFC28KU1W Page 2 of 6
Inhalation	: Excessive inhalation may cause irritati throat and respiratory tract.	on of the nose,
Eye Contact	: Non-irritant.	
Dermal Contact	: Non-irritant, non-sensitiser.	
Ingestion	: Not currently known.	
Chronic Effects	: See Section 11 Supplemental Health I	nformation
CarcinogenIcity	: See Section 11 Supplemental Health	nformation
Reproductive/Developmental	: Not identified.	
Target Organs	: Prolonged breathing of high concentra	tions may cause
Signs and Symptoms of Expo	adverse effects on the respiratory systematics	em.
		oduct may irritate the respiratory system
Medical Conditions Aggravate	ed by Exposure to This Product	oduct may imitate the respiratory system
	: Respiratory disorders, such as asthma	may be paravoied
· · · · · · · · · · · · · · · · · · ·	by prolonged exposure to high concent	rations of this product.
SECTION 4 FIRST AID	MEASURES	
Eye Contact		
	: Immediately flush eyes with plenty of w	aler for at least 15 minutes.
Skin Contact	If irritation persists, call a physician.	н., т . а
	: Wash with soap and water. Wash cloth	ing before reuse.

IngestionIf irritation occurs or is persistent, seek medical attention.Ingestion: Dilute stomach contents with several glasses of water.Inhalation: Remove from exposure area to fresh air immediately.
Contact a physician if there is any difficulty in breathing or other signs of distress.

SECTION 5 FIRE FIGHTING MEASURES

General Hazard	: Product will burn in case of fire.
Flash Point	: Not applicable
Flammable Limits	: Not applicable
Autoignition Temperature	: Not applicable
Flammability classification	: Not applicable
Extinguishing Media	: Foam, halon, carbon dioxide, dry chemical & water fog.
Unusual Fire & Explosion Ha	zard
	: Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
Fire Fighting Procedures	: None
Hazardous Combustion Produced	ucts

: Carbon monoxide, carbon dioxide and smoke.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spills or Leaks

: Vacuum-clean spilled toner and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water. 4

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Product Identity	: T-FC28 -K Black Toner MSDS : TFC28KU1W Page 3 of 6
	NG AND STORAGE
Handling Prevention of Fire and Exp	: Avoid dust, keep away from ignition sources. losion
Storage Hygienic Practices	 This material is capable of creating a dust explosion. Keep away from heat, sparks & flame. Keep container in cool and dry area. Avoid inhalation and ingestion. Avoid getting in eyes, on skin or clothing. Wash hands thoroughly after handling, and before eating, drinking, or smoking.
SECTION 8 EXPOSU	
Exposure Limits	RE CONTROLS/PERSONAL PROTECTION
OSHA PELs (TWA)	
as the product	: 15mg/m ³ (Total dust) 5mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
ACGIH TLVs (TWA)	
as the product	: 10mg/m ³ (Total dust) 3mg/m ³ (Respirable fraction)
Carbon black	: 3.5 mg/m ³
Other substances	: Not listed
DFG-MAK (TWA)	
as the product	: 4mg/m ³ (Inhalable fraction) 1.5mg/m ³ (Respirable fraction)
All substances NOHSC (TWA)	: Not listed
All substances	: Not listed
Engineering Controls	: Maintain adequate ventilation.
Eye Protection	: Not required under intended use.
Skin Protection	: Not required under intended use.
Respiratory Protection	: Not required under intended use.
SECTION 9 PHYSICA	
Appearance	L AND CHEMICAL PROPERTIES : Fine solid powder
Color	: Black
Scent	: Odorless
Melting Point	: 110 - 150 degree (Softening point)
Specific Gravity(H2O=1)	: 1.1 - 1.5
Vapor Pressure	Not applicable
Vanor Density (Air-1)	

Vapor Density (Air=1) : : Not applicable : Not applicable Evaporation Rate

Solubility in Water

pH Value

: Negligible

: Not a water-based product, therefore not applicable.

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Product Identity

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: T-FC28 -K Black Toner

MSDS: TFC28KU1W Page 4 of 6

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SECTION 10 STABILIT	Y AND REACTIVITY		
Stability	: Stable		
Incompatibility	: Not identified.		
Hazardous Decomposition P	roducts		
· · ·	: Carbon monoxide and carbo	on dioxide.	
Hazardous Polymerization:	: Will not occur.		
-			
	MENTAL HEALTH INFORM	MATION	
Acute oral toxicity	: LD50 is greater than	2,000mg/kg.	
	(This was the highest attain	able mass.)	
Acute Inhalation	: LC50(4H) is in excess of	5.13mg/l.	
	(This was the highest attain	able concentration.)	
Eye irritation	: Non-irritant.		
Skin irritation	: Non-irritant.		
Skin sensitization	: Non-sensitiser.		
Mutagenicity	: Negative in the Ames test.		
Carcinogenicity :	: In 1996, the IARC classified	i carbon black as a Group 2	2B carcinogen
	(possible human carcinogen).	
Chronic Effects :	: In a study in rats by chronic	inhalation exposure to a ty	pical toner, a mil
	to moderate degree of lung	fibrosis was observed in §	92 % of the rats in
	the high concentration (16 r		
	degree of fibrosis was not	ed in 22% of the animals in	the middle (4
· ·	mg/m ³) exposure group. Th	ese findings are attributed	to "lung
	overloading", a general resp		
	retained in the lungs for a pr	olonged period.	
SECTION 12 ECOLOG			
Aquatic environmennt	: LC50 is greater than	1000mg/L (fish)	
	: EC50 is greater than	1000mg/L (daphnia)	
	: EbC50 is greater than	1000mg/L (Algal)	
	(This was the highest attainable	e mass.)	
	L CONSIDERATION		
	with local, state and federal regu	lation.	
Empty plastic container m	ay be recycled.		
	DRTATION INFORMATION	<u>l</u>	
Special Precautions	: None		÷
International Transport Inform		•	
UN Classification Number			
DOT Identification Numbe	r : Not applicable		
Domestic Transportation	: Not applicable		
Other Information	: Not applicable		

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Product Identity

: T-FC28 -K Black Toner

MSDS: TFC28KU1W Page 5 of 6

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15 REGULAT	TORY INFORMATION
	: See section 11.
a Information	
lazard Communic	cation Standard, 29CFR 1910, 1200
	: Not regulated.
ubstance Control	Act (TSCA)
	: All chemical substances in this product comply with
	all applicable rules or orders under TSCA.
40 CFR 261)	: Product or components not listed.
	o: : Not regulated.
nual Report on C	arcinogens
	: Not listed as an NTP carcinogen.
a Proposition 65	: Neither toner, or any of the components, are listed as chemicals known
	to the State of California to cause cancer or reproductive system effects.
ed Products Regu	lations(Canada)
	: This product has been classified in accordance with the hazard criteria
	of the CPR.
ce Hazardous Ma	aterials Information System(Canada)
	: No toxicology information available
ate Regulations	: Carbon black is listed in the New Jersey Right to Know List,
	Pennsylvania Hazardous Substance List, and Massachusetts Substance Li
nada Label Stater	ments
	: LOW HAZARD FOR RECOMMENDED HANDLING, Minimize dust
	generation and accumulation. Use with adequate ventilation.
tion	
	ng to Directives 67/548 EEC & 1999/45 EC
	: Not required
Phrase	: Not required
Advise Phrase	: Not required
EC	: All chemical substances in this product comply with all
	applicable rules or order under 76/769/EEC.
requirement :	: No specific regulations or restrictions.
	a Information Hazard Communic ubstance Control 40 CFR 261) A/SARA Informati nual Report on C a Proposition 65 ed Products Regu ce Hazardous Ma ate Regulations hada Label State hada Label State tion formation Accordin of & Indication Phrase y Advise Phrase

SECTION 16 OTHER INFORMATION

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National Fire Protection A	Asso	clation (NFPA) Classification :
Flammability	:	1
Reactivity	:	0
Health	:	0
•		(0 = insignificant, 1 = slight)
Hazardous Materials Info	rmat	ion Systems (HMIS) :
Red (Flammability)	:	1
Yellow (Reactivity)	:	0
Blue (Acute Effects)	:	0
•		(0 = Insignificant, 1 = slight)

Product Identity

MATERIAL SAFETY DATA SHEET

: T-FC28 -K Black Toner MSDS : TFC28KU1W Page 6 of 6 Notice : 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 such information, Toshiba Corporation extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use. References : IARC (1996) IARC Monographs on the Evaluation of the Carcinogenic Risks of Chemicals to Humans, Vol. 65, Printing Processes and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp. 149-261. H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991). Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, Fundamental and Applied Toxicology 17, pp. 280-299. Abbreviation : (1) OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health Administration (USA), (2) ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA). (3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft. (4) TWA stands for Time Weighted Average. (5) IARC stands for International Agency for Research on Cancer. (6) NTP stands for National Toxicology Program (USA). (7) NIOSH stands for National Institute for Occupational Safety and Health (USA). (8) DOT stands for Department of Transportation (USA). (9) NOHSC stands for National Occupational Heath and Safety Commission (Australia). Prepared by : Toshiba TEC Corporation Quality Assurance Div. **Document Processing & Telecommunication Systems Company** 6-78 Minami-cho, Mishima-shi, Shizuoka-ken,

411-8520 Japan

TOSHIBA MATERIAL SAFETY DATA SHEET

Date of Preparation Date of Revised : March 20, 2008

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MSDS: TFC28CU1W Page 1 of 6

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Product Name : T-FC28 -C Cyan Toner Used for : Toshiba Copiers, e-STUDIO 2330C,2820C,2830C,3520C,3530C and 4520C **Company Name** : Toshiba TEC Corporation Address : 2-17-2, Higashigotanda, Shinagawa-ku, Tokyo, 141-8664, Japan **Telephone Number** : +81-3-6422-7753 Manufacturer Name : (1) Toshiba America Business Solutions, Inc Toner Products Division (Mitchell Plant) 901 North Foster Street, Mitchell, SD. 57301-0070 U.S.A.

Contact

: (1) Toshiba America Business Solutions, Inc. Emergency Telephone. No. : +1-800-424-9300 For calls within the U.S. only.

(2) Toshiba of Canada Limited Telephone. No.

: +1 905 470 3500 For calls within Canada only.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	<u>CAS No.</u>	<u>wt.%</u>	
Polyester resin		80-90	
Organic Pigment		<10	
Wax		<10	
Amorphous Silica	7631-86-9	<5	
Titanium dioxide	13463-67-7	<2	

TRADE SECRET

SECTION 3 HAZARDS IDENTIFICATION

 If used as intended, the product does not present acute or chronic health hazard.
 This product is not classified as flammable or combustible. It will burn in case of fire. Avoid contact with strong oxidizers such as chromate, bromate and nitrates.
: Inhalation, dermal contact, incidental ingestion
: Excessive inhalation may cause irritation of the nose, throat and respiratory tract.
: Non-irritant.
: Non-irritant, non-sensitiser.
: Not currently known.
: See Section 11 Supplemental Health Information.
: See Section 11 Supplemental Health Information.

Reproductive/Develor	omental : Not identified.
Target Organs	: Prolonged breathing of high concentrations may cause
	adverse effects on the respiratory system.
Signs and Symptoms	
	: Prolonged exposure to dusts of this product may irritate the respiratory syste
Medical Conditions Ag	ggravated by Exposure to This Product
	• Departmentance discussions and the second s
	: Respiratory disorders, such as asthma, may be aggravated
	by prolonged exposure to high concentrations of this product.
	by prolonged exposure to high concentrations of this product.
SECTION 4 FIRS Eye Contact	by prolonged exposure to high concentrations of this product. <u>T AID MEASURES</u> : Immediately flush eyes with plenty of water for at least 15 minutes.
Eye Contact	by prolonged exposure to high concentrations of this product. <u>T AID MEASURES</u> : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician.
	by prolonged exposure to high concentrations of this product. <u>T AID MEASURES</u> : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician. : Wash with soap and water. Wash clothing before reuse.
Eye Contact	 by prolonged exposure to high concentrations of this product. <u>T AID MEASURES</u> Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician. Wash with soap and water. Wash clothing before reuse. If irritation occurs or is persistent, seek medical attention.
Eye Contact Skin Contact	by prolonged exposure to high concentrations of this product. <u>T AID MEASURES</u> : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician. : Wash with soap and water. Wash clothing before reuse.

SECTION 5 FIRE FIGHTING MEASURES

General Hazard	: Product will burn in case of fire,
Flash Point	: Not applicable
Flammable Limits	: Not applicable
Autoignition Temperature	: Not applicable
Flammability classification	: Not applicable
Extinguishing Media	: Foam, halon, carbon dioxide, dry chemical & water fog.
Unusual Fire & Explosion Ha	
•	: Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
Fire Fighting Procedures	: None

Hazardous Combustion Products

: Carbon monoxide, carbon dioxide and smoke.

Spills or Leaks : Vacuum-clean spilled toner ar

: Vacuum-clean spilled toner and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

SECTION 7 HANDLING AND STORAGE

Handling	: Avoid dust, keep away from ignition sources.
Prevention of Fire and Exp	plosion
	: This material is capable of creating a dust explosion.
	Keep away from heat, sparks & flame.
Storage	: Keep container in cool and dry area.
Hygienic Practices	 Avoid inhalation and ingestion. Avoid getting in eyes, on skin or clothing. Wash hands thoroughly after handling, and before eating, drinking, or smoking.

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Product Identity

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: T-FC28 -C Cyan Toner

MSDS: TFC28CU1W Page 3 of 6

SECTION 8 EXPOSURE	E CONTROLS/PERSONAL PROTECTION			
Exposure Limits				
OSHA PELs (TWA)				
as the product	: 15mg/m ³ (Total dust) 5mg/m ³ (Respirable fraction)			
Other substances ACGIH TLVs (TWA)	: Not listed			
as the product	: 10mg/m ³ (Total dust) 3mg/m ³ (Respirable fraction)			
Other substances DFG-MAK (TWA)	: Not listed			
as the product	: 4mg/m ³ (Inhalable fraction) 1.5mg/m ³ (Respirable fraction)			
All substances NOHSC (TWA)	: Not listed			
All substances	: Not listed			
Engineering Controls	: Maintain adequate ventilation.			
Eye Protection	: Not required under intended use.			
Skin Protection	: Not required under intended use.			
Respiratory Protection	: Not required under intended use.			
SECTION 9 PHYSICAL	AND CHEMICAL PROPERTIES			

Appearance	: Fine solid powder
Color	: Cyan
Scent	: Odorless
Melting Point	: 110 - 150 degree (Softening point)
Specific Gravity(H2O=1)	: 1.1 - 1.5
Vapor Pressure	: Not applicable
Vapor Density (Air=1) :	: Not applicable
Evaporation Rate	: Not applicable
Solubility in Water	: Negligible
pH Value	: Not a water-based product, therefore not applicable.

SECTION 10 STABILITY AND REACTIVITY

Stability	: Stable
Incompatibility	: Not identified.
Hazardous Decomposition P	roducts
	: Carbon monoxide and carbon dioxide.
Hazardous Polymerization:	: Will not occur.

Product I	dentity
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: T-FC28 -C Cyan Toner

MSDS : TFC28CU1W Page 4 of 6

SECTION 11 SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity	: LD50 is greater than	2,000mg/kg.
	(This was the highest attainal	ble mass.)
Acute inhalation	: LC50(4H) is in excess of	5.27mg/l.
	(This was the highest attainal	ble concentration.)
Eye irritation	: Minimal irritant	
Skin irritation	: Non-irritant.	
Skin sensitization	: Non-sensitiser.	
Mutagenicity	: Negative in the Ames test.	
Carcinogenicity :	: None known	
Chronic Effects :	: None known	

SECTION 12 ECOLOGICAL INFORMATION

Aquatic environmennt

: LC50 is greater than1000mg/L (fish): EC50 is greater than1000mg/L (daphnia): EbC50 is greater than1000mg/L (Algal)(This was the highest attainable mass.)

SECTION 13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation. Empty plastic container may be recycled.

SECTION 14 TRANSPORTATION INFORMATION

Special Precautions: NoneInternational Transport InformationUN Classification Number: Not applicableDOT Identification Number: Not applicableDomestic Transportation: Not applicableOther Information: Not applicable

SECTION 15 REGULATORY INFORMATION

IARC	: See section 11.
US/Canada Information	
OSHA Hazard Communic	ation Standard, 29CFR 1910. 1200
	: Not regulated.
Toxic Substance Control	Act (TSCA)
· .	: All chemical substances in this product comply with
	all applicable rules or orders under TSCA,
RCRA (40 CFR 261)	
CERCLA/SARA Informatio	•
NTP Annual Report on C	arcinogens
·	Not listed as an NTP carcinogen.
California Proposition 65	: Neither toner, or any of the components, are listed as chemicals known to the State of California to cause cancer or reproductive system effects.
Controlled Products Regu	• •
	This product has been classified in accordance with the hazard criteria of the CPR.

Product Identity	: T-FC28 -C	Cyan Toner	MSDS : TFC28CU1W Page 5 of 6
Workplace Hazardous M	laterials Informatio	n System(Canada)	
	No toxicology	information available	•
Other State Regulations		ne New Jersey Right to	Know List.
			List, and Massachusetts Substance List
U.S./Canada Label State	ements	•	
	: LOW HAZAR	D FOR RECOMMEND	ED HANDLING. Minimize dust
			with adequate ventilation.
EU Information			
Label Information Accord	ing to Directives 67	7/548 EEC & 1999/45 E	C
Symbol & Indication	: Not required		
Risk Phrase	: Not required		
Safety Advise Phrase	: Not required	·	
76/769/EEC	•	ubstances in this produ	ict comply with all
		es or order under 76/76	
National requirement :		gulations or restrictions	

SECTION 16 OTHER INFORMATION

National Fire Protection Association (NFPA) Classification : Flammability 2 1 Reactivity 0 ŝ Health : 0 (0 = insignificant, 1 = slight)Hazardous Materials Information Systems (HMIS) : Red (Flammability) : 1 Yellow (Reactivity) 0 : Blue (Acute Effects) : 0 (0 = insignificant, 1 = slight) Notice : 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 such information, Toshiba Corporation extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

Product Identity

MATERIAL SAFETY DATA SHEET : T-FC28 -C Cyan Toner MSDS : T

MSDS : TFC28CU1W Page 6 of 6

Abbreviation

: (1) OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health Administration (USA).

(2) ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA).

(3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft.

(4) TWA stands for Time Weighted Average.

(5) NTP stands for National Toxicology Program (USA).

(6) NIOSH stands for National Institute for Occupational Safety and Health (USA).

(7) DOT stands for Department of Transportation (USA).

(8) NOHSC stands for National Occupational Heath and Safety Commission (Australia).

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