

MATERIAL SAFETY DATA SHEET

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Marine Clean

Part No. MC

Revision 2 ❖ October 26, 2010

CONFORMS TO THE GLOBALLY HARMONIZED SYSTEM (GHS), ANSI Z400.1-2004, EU DIRECTIVE 91/155/EEC & 99/45/EC, OSHA 29 CFR 1910.1200, NOHSC:2011(2003), AND CANADIAN CPR

Section 1

● PRODUCT AND COMPANY IDENTIFICATION ●

Section 1

Product Numbers *MC*
 Product Name *Marine Clean*
 Synonyms *None*
 Products Uses *Cleaner*
 Revision Number *1*
 Revision Date *October 26, 2010*
 Print Date *February 9, 2011*

24 hr Emergency
Phone Number

800-424-9300
(Chemtrec)

DISTRIBUTED BY		DISTRIBUTOR INFORMATION	
Company Name	<i>The Easthill Group dba/ The Eastwood Co.</i>	Company Name	
Address	<i>263 Shoemaker Road Pottstown, PA 19464</i>	Address	
Phone Number	<i>USA & Canada: 800-345-1178 Outside USA: 610-323-2200</i>	Phone Number	
		Fax Number	

Section 2

● HAZARDS IDENTIFICATION ●

Section 2

EMERGENCY OVERVIEW

DANGER! CONTENTS CORROSIVE. AVOID CONTACT WITH SKIN AND EYES. HARMFUL OR FATAL IF SWALLOWED.

OSHA Classification *This product is a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.*

European Classification *Xn, Xi, C
R 20/21/22-34-36/38
S 1/2-26-36/37/39-45-46*




WHMIS Classification *D2A, D2B*



HEALTH HAZARDS			PHYSICAL HAZARDS						
Irritant	<input checked="" type="checkbox"/>	Sensitizer	<input type="checkbox"/>	Combustible	<input type="checkbox"/>	Explosive	<input type="checkbox"/>	Pyrophoric	<input type="checkbox"/>
Toxic	<input type="checkbox"/>	Highly Toxic	<input type="checkbox"/>	Flammable	<input type="checkbox"/>	Oxidizer	<input type="checkbox"/>	Water Reactive	<input type="checkbox"/>
Corrosive	<input checked="" type="checkbox"/>	Carcinogenic	<input type="checkbox"/>	Compressed Gas	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>	Unstable	<input type="checkbox"/>

❖ See Section 11

LABELING REQUIREMENTS

CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS
	DANGER CONTENTS CORROSIVE		

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POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Eye Contact	<i>Corrosive! May causes burning or irritation with symptoms of reddening, tearing, stinging, and swelling. May cause corneal injury.</i>
Skin Contact	<i>Corrosive! May cause burning or irritation with symptoms of reddening, itching, and swelling.</i>
Ingestion	<i>Corrosive! May cause burning or irritation. Symptoms may include abdominal pain, nausea, vomiting, diarrhea or death.</i>
Inhalation	<i>May cause respiratory irritation</i>
Effects of Chronic Exposure	<i>Not Available</i>
Medical Conditions Aggravated	<i>May aggravate pre-existing conditions associated with the target organs.</i>
Target Organs	<i>Eyes, Skin, Respiratory System</i>
Routes of Exposure	<i>Skin contact, eye contact, inhalation</i>
Potential Environmental Effects	<i>See Section 12 for environmental effects</i>

Section 3

● COMPOSITION / INFORMATION ON INGREDIENTS ●

Section 3

ID	INGREDIENT	CAS NUMBER	EINECS	EU CLASSIFICATION	% WT
1	Water	007732-18-5	231-791-2	Not Classified in Annex I of Directive 67/548/EEC	—
2	Ethylene Glycol Monobutyl Ether	000111-76-2	203-905-0	Xn, Xi; 20/21/22-36/38	3 - 7
3	Nonylphenol Ethoxylate	026027-38-3	500-045-0	Not Classified in Annex I of Directive 67/548/EEC	—
4	Potassium Hydroxide	001310-58-3	215-181-3	C; 22-34	1 - 5

Risk Phrases	<i>See Section 15 for risk phrase text</i>
LD50 and LC50 Information	<i>See Section 11 for toxicological information</i>
Occupational Exposure Limits	<i>See Section 8 for OELs</i>

Section 4

● FIRST AID MEASURES ●

Section 4

Ingestion	<i>DO NOT INDUCE VOMITING! Do not give anything by mouth to an unconscious individual. Consult a physician immediately.</i>
Skin Contact	<i>Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. Remove contaminated clothing.</i>
Eye Contact	<i>Check for and remove any contact lenses. Immediately flush with clear water for at least 15 minutes, including under the eyelids. Get medical attention immediately.</i>
Inhalation	<i>Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen</i>
Notes to Physician	<i>Treat symptomatically</i>
Antidotes	<i>No specific antidote</i>

Section 5

● FIRE FIGHTING MEASURES ●

Section 5

Flash Point	<i>Non-Flammable</i>
Autoignition Temperature	<i>Non-Flammable</i>
Explosive Limits	<i>Non-Flammable</i>
Conditions of Flammability	<i>Heat, sparks, flame, red hot metal</i>
Extinguishing Media	<i>Use extinguishing media suitable for nearby materials</i>
Unsuitable Extinguishing Media	<i>Not applicable</i>
Hazardous Combustion Products	<i>oxides of carbon (CO, CO2), smoke, and vapors</i>
Sensitivity to Mechanical Impact	<i>Probably not sensitive as material is stable.</i>
Sensitivity to Static Discharge	<i>Probably not sensitive as material is non-flammable.</i>

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Special Equipment and Precautions *Use water spray to cool fire exposed containers, as contents can rupture violently from heat developed pressure. Firemen should wear self-contained breathing apparatus.*

Special Explosion Hazards *CORROSIVE LIQUID.*

Autoreactivity / Oxidizing Properties *Not available*

Section 6

● ACCIDENTAL RELEASE MEASURES ●

Section 6

Personal Precautions *Use personal protection recommended in Section 8. Isolate hazard area and deny entry to unnecessary and unprotected personnel.*

Environmental Precautions *Keep out of drains, sewers, ditches, and waterways.*

Containment Procedures *Released content may be contained with absorbent pads, booms, and/or absorbents suitable for water-based materials.*

Cleanup Procedures *For small spills dilute with water and mop up, or absorb with an inert material and place in an appropriate waste disposal container. If necessary, neutralize the residue with a dilute solution of acetic acid. For large spills stop leak if without risk. Use water spray to reduce vapors. Call for assistance on disposal and cleanup.*

Other Information *The North American Emergency Response Guidebook, the Australian Dangerous Goods-Initial Emergency Response Guide (SAA/SNZ HB 76), or similar resources providing emergency response information for dealing with accidents, spills, leaks, and/or fires involving dangerous goods.*

Prohibited Materials *Combustible absorbent material such as sawdust, use of equipment that may cause sparking.*

Reporting Requirements *Report releases that reach surface water or groundwater in any amount. Spills, leaks, and overfills from a regulated underground storage tank should also be reported. Reportable quantities for spills onto the ground depend on site conditions, such as the type of soil and the type of material spilled, and Federal and local agencies often have different reportable quantities. If you are unsure of your reporting requirements contact the regulating agency in your area.*

Section 7

● HANDLING AND STORAGE ●

Section 7

Precautions for Safe Handling and Use *KEEP OUT OF THE REACH OF CHILDREN.*

Storage Requirements and Conditions *Keep containers tightly closed and stored in a well-ventilated place. Store away from incompatible materials.*

Special Packaging Materials *Not applicable.*

Section 8

● EXPOSURE CONTROLS / PERSONAL PROTECTION ●

Section 8

Occupational Exposure Limits

ID	UNITED STATES OSHA PEL	UNITED STATES NIOSH REL	UNITED STATES NIOSH IDLH	UNITED STATES ACGIH TLV	AUSTRALIA TWA	GERMANY MAK	JAPAN OEL
1	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	50 ppm	5 ppm	700 ppm	20 ppm	20 ppm	20 ppm	N/E
3	N/E	N/E	N/E	N/E	N/E	N/E	N/E
4	2 mg/m ³ C	2 mg/m ³ C	N/E	2 mg/m ³ C	2 mg/m ³ C	N/E	2 mg/m ³ C

ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWA/EV	CANADA QUEBEC TWA	MEXICO MPEL-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEEL
1	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	25 ppm	20 ppm	20 ppm	25 ppm	25 ppm	25 ppm	N/E
3	N/E	N/E	N/E	N/E	N/E	N/E	N/E
4	2 mg/m ³ C	2 mg/m ³ C	2 mg/m ³ C	2 mg/m ³ C	N/E	2 mg/m ³ C	N/E

Engineering Measures *Use local exhaust to control air concentration levels below the recommended exposure levels.*

Biological Exposure Indices *None established.*

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General Hygiene Considerations *Avoid breathing vapors and contact with the skin and eyes. Always replace lid when not in use. Keep out the reach of children. Wash hands after use.*

Thermal Hazards *This product does not present a thermal hazard.*

PERSONAL PROTECTIVE EQUIPMENT



Respiratory Protection *Wear an appropriate respirator when ventilation is not adequate. In the United States ensure compliance with OSHA standard 29 CFR 1910.134.*

Skin Protection *Ensure any exposed skin is covered by using chemical protective boots, gloves, coveralls, and/or other resistant protective clothing.*

Eye/Face Protection *Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles or a full face shield are recommended.*

Other Protective Equipment *Safety showers and eye-wash stations should be available in the workplace near where the material will be used.*

Section 9

● PHYSICAL AND CHEMICAL PROPERTIES ●

Section 9

Boiling Point	> 212 °F (100.0 °C)	Melting / Freezing Point	> 32 °F (0.0 °C)
Flash Point	Non-Flammable	Autoignition Temperature, Liquid	Non-Flammable
Explosive Limits	Non-Flammable	Decomposition Temperature	Not Available
Flammability	Non-Flammable	Density (H ₂ O = 1)	1.027 g/cc
Molecular Weight	Not Available	Weight	8.573 lbs/gal
Vapor Pressure	Not Available	pH	9.5 - 13.1
Vapor Density	Not Available	Evaporation Rate (BuAC = 1)	Not Available
Physical State	Liquid	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor Threshold	Not Available	Heat of Combustion	Not Available
Odor	Mild	Water Solubility	Not Available
Appearance / Color	Clear colorless		
Percent Volatile	92% Wt (93% Vol) Max	VOC Content	0.428 lbs/gal (45.057 g/L)
Percent VOC	5% Wt (6% Vol) Max	HAP Content	None
Solids Content	None	Maximum Incremental Reactivity	0.146

Section 10

● STABILITY AND REACTIVITY ●

Section 10

Stability	Stable
Physical Hazards	Corrosive liquid
Conditions to Avoid	Not Available
Hazard Polymerization	Will not occur
Material Incompatibility	Strong oxidizing agents, reducing agents, acids
Conditions of Reactivity	Not Available
Decomposition Products	H ₂

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Section 11

● TOXICOLOGICAL INFORMATION ●

Section 11

Irritancy of Product	<i>The following ingredients are eye irritants: Butyl Cellosolve, Potassium Hydroxide. The following ingredients are skin irritants: Butyl Cellosolve, Potassium Hydroxide.</i>
Sensitization to Product	<i>None of the ingredients are known or suspected sensitizers</i>
Carcinogen Data	<i>None of the ingredients are known or suspected carcinogen</i>
Reproductive Toxicity	<i>None of the ingredients are known or suspected reproductive toxins</i>
Teratogenicity	<i>None of the ingredients are known or suspected teratogens</i>
Mutagenicity	<i>None of the ingredients are known or suspected mutagens</i>
Synergistic Products	<i>No known synergistic properties.</i>

LD₅₀ and LC₅₀ Information

ID	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
1	> 89000 mg/kg, rat	Not Available	Not Available
2	470 mg/kg, rat	220 mg/kg, rabbit	2211 mg/m ³ /4 hr, rat
3	1410 mg/kg, rat	2830 mg/kg, rabbit	Not Available
4	365 mg/kg, rat	> 1260 mg/kg, rabbit	Not Available

Section 12

● ECOLOGICAL INFORMATION ●

Section 12

Mobility	<i>Not Available</i>
Persistence	<i>Not Available</i>
Degradability	<i>Not Available</i>
Bioaccumulation	<i>Not Available</i>
Other Ecologic Data	<i>Do not allow to enter waters, waste water, or soil.</i>
Effects on the Ozone Layer	<i>This product does not contain any ozone depleting ingredients.</i>

Ecotoxicity

ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS
1	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>
2	<i>LC50: 1490 mg/L /96 hr</i>	<i>EC50: 1720 mg/L /24 hr</i>	<i>LOEC: 900 mg/L /7 day</i>	<i>EC5: 911 mg/L /48 hr</i>
3	<i>LC50: 188.2 mg/L /48 hr</i>	<i>LC50: 21.4 mg/L /48 hr</i>	<i>EC50: 17 mg/L /48 hr</i>	<i>Not Available</i>
4	<i>LC50: 85 mg/L /24 hr</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>

Section 13

● DISPOSAL CONSIDERATIONS ●

Section 13

Waste Disposal *Hazard characteristics and regulatory waste stream classification can change with product use and location. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste material must be disposed of in compliance with the respective national, federal, state, and/or local regulations.*

Waste Disposal of Packaging *Consult with local landfill to determine if empty small containers can be disposed of regular trash pickup.*

For disposal of large containers (typically 10 gallon or larger), or for containers not suitable for landfill, containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Landfill Precautions *Not Available*

Incineration Precautions *Not Available*

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Section 14

TRANSPORTATION INFORMATION

Section 14

DOT SHIPPING INFORMATION (United States)  PROPER SHIPPING NAME: ... <i>Consumer Commodity</i> HAZARD CLASS: ... <i>ORM-D</i> PACKAGING GROUP: ... UN or ID NUMBER: ... NAERG GUIDE NUMBER: ... <i>171</i>	ICAO/IATA SHIPPING INFORMATION (International Air)  PROPER SHIPPING NAME: ... <i>Consumer Commodity</i> HAZARD CLASS: ... <i>9</i> PACKAGING GROUP: ... UN or ID NUMBER: ... <i>ID8000</i>
IMDG SHIPPING INFORMATION (International Ocean)  PROPER SHIPPING NAME: ... <i>Potassium Hydroxide solution</i> CLASS: ... <i>8</i> PACKAGING GROUP: ... <i>III</i> SUBSIDIARY RISK(S): ... UN or ID NUMBER: ... <i>UN1814</i> PACKING INSTRUCTIONS: ... <i>P001, LP01</i> EmS NO.: ... <i>F-A, S-B</i> STOWAGE: ... <i>Category A</i> MFAG NO.: ... <i>705</i>	ADR SHIPPING INFORMATION (European Union)  PROPER SHIPPING NAME: ... <i>Potassium Hydroxide solution</i> ADR CLASS: ... <i>8</i> PACKAGING GROUP: ... <i>III</i> UN or ID NUMBER: ... <i>UN1814</i> CLASSIFICATION CODE: ... <i>C5</i> HAZARD IDENTIFICATION NO: ... <i>80</i> EMERGENCY ACTION CODE: ... <i>2R</i>
TDG SHIPPING INFORMATION (Canada)  PROPER SHIPPING NAME: ... <i>Potassium Hydroxide solution</i> HAZARD CLASS: ... <i>8</i> PACKAGING GROUP: ... <i>III</i> UN or ID NUMBER: ... <i>UN1814</i>	NMFC DESCRIPTION (United States) ITEM DESCRIPTION: <i>Compounds Cleaning, NOI</i> ITEM NUMBER: ... <i>48580 Sub 3</i> CLASS: ... <i>55</i>

Section 15

REGULATORY INFORMATION

Section 15

United States - Federal

ID	TSCA INVENTORY	SARA 302 EHS	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312 ACUTE	CHRONIC	PRESSURE	CLEAN AIR ACT	CLEAN WATER ACT
1	✓	—	—	—	—	—	—	—	—	—	—	—
2	✓	—	—	—	5 %	—	—	—	—	—	—	—
3	✓	—	—	—	—	—	✓	✓	✓	—	—	—
4	✓	—	—	—	1000 #	—	—	—	—	—	—	—

United States - States

ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	—	—	—	—	—	—	—	—	—
2	—	—	✓	2,4,6 F8	—	AO	—	—	✓
3	—	—	—	—	—	—	—	—	—
4	—	✓	✓	4, 5 F8	E	A	—	✓	✓

Canada

ID	WHMIS CATEGORIES									CHEMICAL LISTS			
	A	B	C	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
1	—	—	—	—	—	—	—	—	—	✓	—	—	—
2	—	B3	—	—	—	✓	✓	—	—	✓	—	1A, 5	—
3	—	—	—	—	—	—	—	—	—	✓	—	—	—
4	—	—	—	—	✓	—	—	—	✓	✓	—	—	—

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.

European Union

CODE	RISK PHRASES
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R 34	Causes burns
R 36/38	Irritating to eyes and skin

CODE	SAFETY PHRASES
S 1/2	Keep locked up and out of the reach of children
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 36/37/39	Wear suitable protective clothing, gloves & eye/face protection

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CODE	SAFETY PHRASES
S 45	<i>In case of accident or if you feel unwell, seek medical advice immediately</i>
S 46	<i>If swallowed, seek medical advice immediately</i>

RoHS Compliance



This product is RoHS compliant according to the definitions and restrictions given by Directive 2002/95/EC and The Council of January 27, 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Australia

Poisons Schedule Number

None of the ingredients are present at or above a concentration necessary for allocation of a Poisons Schedule Number.

Chemical Inventory Status

All of the ingredients are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt.

Section 16

● OTHER INFORMATION ●

Section 16

Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.

Revision History

*Revision 1, 08/19/2010, Original
Revision 2, 10/26/2010, Clarified EU information in Section 3*

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Section 1

● PRODUCT AND COMPANY IDENTIFICATION ●

Section 1

Product Numbers *MR*
 Product Name *Prep & Ready™*
 Synonyms *None*
 Products Uses *Cleaner*
 Revision Number *2*
 Revision Date *September 8, 2010*
 Print Date *October 26, 2010*

24 hr Emergency
Phone Number

800-424-9300
(Chemtrec)

DISTRIBUTED BY		DISTRIBUTOR INFORMATION	
Company Name	<i>The Easthill Group dba/ The Eastwood Co.</i>	Company Name	
Address	<i>263 Shoemaker Road Pottstown, PA 19464</i>	Address	
Phone Number	<i>USA & Canada: 800-345-1178 Outside USA: 610-323-2200</i>	Phone Number	
		Fax Number	

Section 2

● HAZARDS IDENTIFICATION ●

Section 2

EMERGENCY OVERVIEW

DANGER! CONTENTS CORROSIVE. AVOID CONTACT WITH SKIN AND EYES. HARMFUL OR FATAL IF SWALLOWED.

OSHA Classification *This product is a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.*

European Classification *N, C
R 34-36/38-50/53
S 1/2-26-45-60-61*

WHMIS Classification *E*

HEALTH	* 2
FLAMMABILITY	0
PHYSICAL HAZARD	0



HEALTH HAZARDS		PHYSICAL HAZARDS			
Irritant <input type="checkbox"/>	Sensitizer <input type="checkbox"/>	Combustible <input type="checkbox"/>	Explosive <input type="checkbox"/>	Pyrophoric <input type="checkbox"/>	
Toxic <input type="checkbox"/>	Highly Toxic <input type="checkbox"/>	Flammable <input type="checkbox"/>	Oxidizer <input type="checkbox"/>	Water Reactive <input type="checkbox"/>	
Corrosive <input checked="" type="checkbox"/>	Carcinogenic <input type="checkbox"/>	Compressed Gas <input type="checkbox"/>	Organic Peroxide <input type="checkbox"/>	Unstable <input type="checkbox"/>	

LABELING REQUIREMENTS

CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS
	DANGER CONTENTS CORROSIVE		

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POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Eye Contact	<i>Corrosive! May cause burning or irritation with symptoms of reddening, tearing, stinging, and swelling. May cause corneal injury.</i>
Skin Contact	<i>Corrosive! May cause burning or irritation with symptoms of reddening, itching, and swelling.</i>
Ingestion	<i>Corrosive! May cause burning or irritation. Symptoms may include abdominal pain, nausea, vomiting, diarrhea or death.</i>
Inhalation	<i>May cause respiratory irritation</i>
Effects of Chronic Exposure	<i>Phosphoric acid can irritate the lungs. Repeated overexposure may cause bronchitis.</i>
Medical Conditions Aggravated	<i>May aggravate pre-existing conditions associated with the target organs.</i>
Target Organs	<i>Eyes, Skin, Respiratory System</i>
Routes of Exposure	<i>Skin contact, eye contact, inhalation</i>
Potential Environmental Effects	<i>See Section 12 for environmental effects</i>

Section 3

● COMPOSITION / INFORMATION ON INGREDIENTS ●

Section 3

ID	INGREDIENT	CAS NUMBER	EINECS	EU CLASSIFICATION	% WT
1	Water	007732-18-5	231-791-2	Not Classified in Annex I of Directive	—
2	Nonylphenol Ethoxylate	026027-38-3	500-045-0	Not Classified in Annex I of Directive	—
3	Phosphoric Acid	007664-38-2	231-633-2	C; 34-36/38	3 - 7
4	Zinc Phosphate	007779-90-0	231-944-3	N; 50/53	3 - 7

Risk Phrases	<i>See Section 15 for risk phrase text</i>
LD50 and LC50 Information	<i>See Section 11 for toxicological information</i>
Occupational Exposure Limits	<i>See Section 8 for OELs</i>

Section 4

● FIRST AID MEASURES ●

Section 4

Ingestion	<i>DO NOT INDUCE VOMITING! Do not give anything by mouth to an unconscious individual. Consult a physician immediately.</i>
Skin Contact	<i>Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. Remove contaminated clothing.</i>
Eye Contact	<i>Check for and remove any contact lenses. Immediately flush with clear water for at least 15 minutes, including under the eyelids. Get medical attention immediately.</i>
Inhalation	<i>Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen</i>
Notes to Physician	<i>Treat symptomatically</i>
Antidotes	<i>No specific antidote</i>

Section 5

● FIRE FIGHTING MEASURES ●

Section 5

Flash Point	<i>Non-Flammable</i>
Autoignition Temperature	<i>Non-Flammable</i>
Explosive Limits	<i>Non-Flammable</i>
Conditions of Flammability	<i>Heat, sparks, flame, red hot metal</i>
Extinguishing Media	<i>Use extinguishing media suitable for nearby materials</i>
Unsuitable Extinguishing Media	<i>Water jet or water-based fire extinguishers</i>
Hazardous Combustion Products	<i>oxides of carbon (CO, CO₂), smoke, and vapors</i>
Sensitivity to Mechanical Impact	<i>Probably not sensitive as material is stable.</i>
Sensitivity to Static Discharge	<i>Probably not sensitive as material is non-flammable.</i>

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Special Equipment and Precautions Use water spray to cool fire exposed containers, as contents can rupture violently from heat developed pressure. Firemen should wear self-contained breathing apparatus.

Special Explosion Hazards CORROSIVE LIQUID.

Autoreactivity / Oxidizing Properties Not available

Section 6

● ACCIDENTAL RELEASE MEASURES ●

Section 6

Personal Precautions Use personal protection recommended in Section 8. Isolate hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions Keep out of drains, sewers, ditches, and waterways.

Containment Procedures Released content may be contained with absorbent pads, booms, and/or absorbents suitable for water-based materials.

Cleanup Procedures For small spills dilute with water and mop up, or absorb with an inert material and place in an appropriate waste disposal container. If necessary, neutralize the residue with a dilute solution of acetic acid. For large spills stop leak if without risk. Use water spray to reduce vapors. Call for assistance on disposal and cleanup.

Other Information The North American Emergency Response Guidebook, the Australian Dangerous Goods-Initial Emergency Response Guide (SAA/SNZ HB 76), or similar resources providing emergency response information for dealing with accidents, spills, leaks, and/or fires involving dangerous goods.

Prohibited Materials Combustible absorbent material such as sawdust, use of equipment that may cause sparking.

Reporting Requirements Report releases that reach surface water or groundwater in any amount. Spills, leaks, and overfills from a regulated underground storage tank should also be reported. Reportable quantities for spills onto the ground depend on site conditions, such as the type of soil and the type of material spilled, and Federal and local agencies often have different reportable quantities. If you are unsure of your reporting requirements contact the regulating agency in your area.

Section 7

● HANDLING AND STORAGE ●

Section 7

Precautions for Safe Handling and Use KEEP OUT OF THE REACH OF CHILDREN.

Storage Requirements and Conditions Keep containers tightly closed and stored in a well-ventilated place. Store away from incompatible materials.

Special Packaging Materials Not applicable.

Section 8

● EXPOSURE CONTROLS / PERSONAL PROTECTION ●

Section 8

Occupational Exposure Limits

ID	UNITED STATES OSHA PEL	UNITED STATES NIOSH REL	UNITED STATES NIOSH IDLH	UNITED STATES ACGIH TLV	AUSTRALIA TWA	GERMANY MAK	JAPAN OEL
1	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	N/E	N/E	N/E	N/E	N/E	N/E	N/E
3	1 mg/m ³	1 mg/m ³	1000 mg/m ³	1 mg/m ³	1 mg/m ³	1 mg/m ³	1 mg/m ³
4	N/E	N/E	N/E	N/E	N/E	N/E	N/E

ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWA/VEV	CANADA QUEBEC TWA	MEXICO MPEL-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEEL
1	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	N/E	N/E	N/E	N/E	N/E	N/E	N/E
3	1 mg/m ³	1 mg/m ³	1 mg/m ³	1 mg/m ³	1 mg/m ³	1 mg/m ³	N/E
4	N/E	N/E	N/E	N/E	N/E	N/E	N/E

Engineering Measures Use local exhaust to control air concentration levels below the recommended exposure levels.

Biological Exposure Indices None established.

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General Hygiene Considerations *Avoid breathing vapors and contact with the skin and eyes. Always replace lid when not in use. Keep out the reach of children. Wash hands after use.*

Thermal Hazards *This product does not present a thermal hazard.*

PERSONAL PROTECTIVE EQUIPMENT



Respiratory Protection *Wear an appropriate respirator when ventilation is not adequate. In the United States ensure compliance with OSHA standard 29 CFR 1910.134.*

Skin Protection *Ensure any exposed skin is covered by using chemical protective boots, gloves, coveralls, and/or other resistant protective clothing.*

Eye/Face Protection *Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles or a full face shield are recommended.*

Other Protective Equipment *Safety showers and eye-wash stations should be available in the workplace.*

Section 9

● PHYSICAL AND CHEMICAL PROPERTIES ●

Section 9

Boiling Point	> 212 °F (100.0 °C)	Melting / Freezing Point	> 32 °F (0.0 °C)
Flash Point	Non-Flammable	Autoignition Temperature, Liquid	Non-Flammable
Explosive Limits	Non-Flammable	Decomposition Temperature	Not Available
Flammability	Non-Flammable	Density (H ₂ O = 1)	1.074 g/cc
Molecular Weight	Not Available	Weight	8.966 lbs/gal
Vapor Pressure	Not Available	pH	2.5 - 3.8
Vapor Density	3.4	Evaporation Rate (BuAC = 1)	Not Available
Physical State	Liquid	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor Threshold	Not Available	Heat of Combustion	Not Available
Odor	Mild	Water Solubility	Not Available
Appearance / Color	Clear colorless		
Percent Volatile	55% Wt (58% Vol) Max	VOC Content	None
Percent VOC	None	HAP Content	None
Solids Content	None	Maximum Incremental Reactivity	None

Section 10

● STABILITY AND REACTIVITY ●

Section 10

Stability	Stable
Physical Hazards	Corrosive liquid
Conditions to Avoid	Not Available
Hazard Polymerization	Will not occur
Material Incompatibility	Strong oxidizing agents, powdered metal salts, caustics, chemically active metals, halogens, polymerizable compounds, nitromethane, sodium tetrahydaborate
Conditions of Reactivity	Not Available
Decomposition Products	Phosphorus oxides

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Section 11

● TOXICOLOGICAL INFORMATION ●

Section 11

Irritancy of Product	<i>The following ingredients are eye irritants: Phosphoric Acid. The following ingredients are skin irritants: Phosphoric Acid.</i>
Sensitization to Product	<i>None of the ingredients are known or suspected sensitizers</i>
Carcinogen Data	<i>None of the ingredients are known or suspected carcinogen</i>
Reproductive Toxicity	<i>None of the ingredients are known or suspected reproductive toxins</i>
Teratogenicity	<i>None of the ingredients are known or suspected teratogens</i>
Mutagenicity	<i>None of the ingredients are known or suspected mutagens</i>
Synergistic Products	<i>No known synergistic properties.</i>

LD₅₀ and LC₅₀ Information

ID	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
1	> 89000 mg/kg, rat	Not Available	Not Available
2	1410 mg/kg, rat	2830 mg/kg, rabbit	Not Available
3	1540 mg/kg, rabbit	2740 mg/kg, rabbit	1.7 mg/L /1hr, rabbit
4	Not Available	Not Available	Not Available

Section 12

● ECOLOGICAL INFORMATION ●

Section 12

Mobility	<i>Not Available</i>
Persistence	<i>Not Available</i>
Degradibility	<i>Not Available</i>
Bioaccumulation	<i>Not Available</i>
Other Ecologic Data	<i>Do not allow to enter waters, waste water, or soil. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</i>
Effects on the Ozone Layer	<i>This product does not contain any ozone depleting ingredients.</i>

Ecotoxicity

ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS
1	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>
2	<i>LC50: 188.2 mg/L /48 hr</i>	<i>LC50: 21.4 mg/L /48 hr</i>	<i>EC50: 17 mg/L /48 hr</i>	<i>Not Available</i>
3	<i>LC50: 3.5 mg/L /96 hr</i>	<i>EC50: 4.6 mg/L /12 hr</i>	<i>Not Available</i>	<i>EC50: 270 mg/L /24 hr</i>
4	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>

Section 13

● DISPOSAL CONSIDERATIONS ●

Section 13

Waste Disposal	<i>Hazard characteristics and regulatory waste stream classification can change with product use and location. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste material must be disposed of in compliance with the respective national, federal, state, and/or local regulations.</i>
Waste Disposal of Packaging	<i>Consult with local landfill to determine if empty small containers can be disposed of regular trash pickup.</i> <i>For disposal of large containers (typically 10 gallon or larger), or for containers not suitable for landfill, containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.</i>
Landfill Precautions	<i>Not Available</i>
Incineration Precautions	<i>Not Available</i>

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Section 14 • TRANSPORTATION INFORMATION • Section 14

<p>DOT SHIPPING INFORMATION (United States)</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;"> Consumer Commodity ORM-D </div> <p> PROPER SHIPPING NAME: ... <i>Consumer Commodity</i> HAZARD CLASS: ... <i>ORM-D</i> PACKAGING GROUP: ... UN or ID NUMBER: ... NAERG GUIDE NUMBER: ... <i>171</i> </p>	<p>ICAO/IATA SHIPPING INFORMATION (International Air)</p> <div style="text-align: center; margin-bottom: 5px;"> <p style="font-size: x-small;">9</p> </div> <p> PROPER SHIPPING NAME: ... <i>Consumer Commodity</i> HAZARD CLASS: ... <i>9</i> PACKAGING GROUP: ... UN or ID NUMBER: ... <i>ID8000</i> </p>
<p>IMDG SHIPPING INFORMATION (International Ocean)</p> <div style="text-align: center; margin-bottom: 5px;"> <p style="font-size: x-small;">8</p> </div> <p> PROPER SHIPPING NAME: ... <i>Phosphoric Acid solution</i> CLASS: ... <i>8</i> PACKAGING GROUP: ... <i>III</i> SUBSIDIARY RISK(S): ... UN or ID NUMBER: ... <i>UN1805</i> PACKING INSTRUCTIONS: ... <i>P001, LP01</i> EmS NO.: ... <i>F-A, S-B</i> STOWAGE: ... <i>Category A</i> MFAG NO.: ... <i>705</i> </p>	<p>ADR SHIPPING INFORMATION (European Union)</p> <div style="text-align: center; margin-bottom: 5px;"> <p style="font-size: x-small;">8</p> </div> <p> PROPER SHIPPING NAME: ... <i>Phosphoric Acid solution</i> ADR CLASS: ... <i>8</i> PACKAGING GROUP: ... <i>III</i> UN or ID NUMBER: ... <i>UN1805</i> CLASSIFICATION CODE: ... <i>C5</i> HAZARD IDENTIFICATION NO: ... <i>80</i> EMERGENCY ACTION CODE: ... <i>2R</i> </p>
<p>TDG SHIPPING INFORMATION (Canada)</p> <div style="text-align: center; margin-bottom: 5px;"> <p style="font-size: x-small;">8</p> </div> <p> PROPER SHIPPING NAME: ... <i>Phosphoric Acid solution</i> HAZARD CLASS: ... <i>8</i> PACKAGING GROUP: ... <i>III</i> UN or ID NUMBER: ... <i>UN1805</i> </p>	<p>NMFC DESCRIPTION (United States)</p> <p> ITEM DESCRIPTION: <i>Compounds Cleaning, NOI</i> ITEM NUMBER: ... <i>48580 Sub 3</i> CLASS: ... <i>55</i> </p>

Section 15 • REGULATORY INFORMATION • Section 15

United States - Federal

ID	TSCA INVENTORY	SARA 302 EHS	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312 ACUTE	CHRONIC	PRESSURE	CLEAN AIR ACT	CLEAN WATER ACT
1	✓	—	—	—	—	—	—	—	—	—	—	—
2	✓	—	—	—	—	—	—	—	—	—	—	—
3	✓	—	—	—	5000#	—	—	✓	✓	—	—	—
4	✓	—	—	—	—	—	—	—	—	—	—	—

United States - States

ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
3	—	✓	✓	2,4,5 F8 F9	—	AO	—	✓	✓
4	—	—	—	—	—	—	—	—	—

Canada

ID	WHMIS CATEGORIES									CHEMICAL LISTS			
	A	B	C	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
1	—	—	—	—	—	—	—	—	—	✓	—	—	—
2	—	—	—	—	—	—	—	—	—	✓	—	—	—
3	—	—	—	—	—	—	—	—	✓	✓	—	1A	—
4	—	—	—	—	—	—	—	—	—	✓	—	—	—

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.

European Union

CODE	RISK PHRASES
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R 36/38	Irritating to eyes and skin
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
CODE	SAFETY PHRASES
S 1/2	Keep locked up and out of the reach of children
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 45	In case of accident or if you feel unwell, seek medical advice immediately

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CODE	SAFETY PHRASES
S 60	<i>This material and its container must be disposed of as hazardous waste</i>
S 61	<i>Avoid release to the environment.</i>

RoHS Compliance



This product is RoHS compliant according to the definitions and restrictions given by Directive 2002/95/EC and The Council of January 27, 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Australia

Poisons Schedule Number

None of the ingredients are present at or above a concentration necessary for allocation of a Poisons Schedule Number.

Chemical Inventory Status

All of the ingredients are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt.

Section 16

● OTHER INFORMATION ●

Section 16

Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.

Revision History

*Revision 1, 09/08/2010, Original
Revision 2, 10/26/2010, Clarified EU information in Section 3*

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Section 1

• PRODUCT AND COMPANY IDENTIFICATION •

Section 1

Product Numbers TS
 Product Name US Standard Fuel Tank Sealer
 Synonyms None
 Products Uses Paint
 Revision Number 3
 Revision Date February 28, 2012
 Print Date February 28, 2012

24 hr Emergency
Phone Number

800-424-9300
(Chemtrec)

DISTRIBUTED BY		DISTRIBUTOR INFORMATION	
Company Name	The Easthill Group dba/ The Eastwood Co.	Company Name	
Address	263 Shoemaker Road Pottstown, PA 19464	Address	
Phone Number	USA & Canada: 800-345-1178 Outside USA: 610-323-2200	Phone Number	
		Fax Number	

Section 2

• HAZARDS IDENTIFICATION •

Section 2

EMERGENCY OVERVIEW

CAUTION! CONTENTS COMBUSTIBLE. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. SKIN AND RESPIRATORY SENSITIZER. SKIN AND RESPIRATORY IRRITANT. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

OSHA Classification This product is a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

European Classification Carc. Cat. 3
 Xn, Xi
 R 15-20-36/37/38-40-42/43-48/20-65
 S 1/2-7/8-23-24-43-45-53-62

WHMIS Classification B3, D1A, D2A, D2B



HEALTH HAZARDS				PHYSICAL HAZARDS			
Irritant	<input checked="" type="checkbox"/>	Sensitizer	<input checked="" type="checkbox"/>	Combustible	<input checked="" type="checkbox"/>	Explosive	<input type="checkbox"/>
Toxic	<input type="checkbox"/>	Highly Toxic	<input checked="" type="checkbox"/>	Flammable	<input type="checkbox"/>	Oxidizer	<input type="checkbox"/>
Corrosive	<input type="checkbox"/>	Carcinogenic	<input checked="" type="checkbox"/>	Compressed Gas	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>
						Pyrophoric	<input type="checkbox"/>
						Water Reactive	<input type="checkbox"/>
						Unstable	<input type="checkbox"/>

❖ See Section 11

LABELING REQUIREMENTS

CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS
	CAUTION CONTENTS COMBUSTIBLE		

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POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Eye Contact	Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Prolonged vapor contact may cause conjunctivitis.
Skin Contact	Causes irritation with symptoms of reddening, itching, and swelling. Persons previously sensitized can experience allergic skin reaction. Cured material is difficult to remove. Contact with isocyanates can cause discoloration (staining) and hardening of the skin after repeated exposures.
Ingestion	May cause irritation. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.
Inhalation	Diisocyanate vapors or mist can irritate the mucous membranes in the respiratory tract causing running nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. Persons with a preexisting, nonspecific bronchial hyper reactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV/PEL may lead to bronchitis, bronchial spasm and pulmonary edema. Chemical or hypersensitivity pneumonitis, with flu-like symptoms, has also been reported. These symptoms can be delayed up to several hours after exposure.
Effects of Chronic Exposure	Prolonged skin contact can cause in some cases sensitization. Animal tests and other research indicate skin contact with isocyanates can play a roll in causing isocyanate sensitization and respiratory reaction. As a result of repeated overexposure, or a single large exposure, some individuals may develop sensitization to diisocyanates (asthma or asthma-like symptoms) that may cause them to react to a later exposure at levels well below the TLV/PEL. These symptoms could include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, and could be immediate or delayed up to several hours after exposure. Extreme asthmatic reactions can be life threatening. This increased sensitivity can persist for weeks and in severe cases for several years. Sensitization can be permanent. Chronic overexposure to diisocyanates has also been reported to cause lung damage, including fibrosis and a decrease in lung function.
Medical Conditions Aggravated	Asthma, respiratory disorders, skin allergies, eczema
Target Organs	Eyes, Skin, Respiratory System, Central Nervous System
Routes of Exposure	Skin contact, eye contact, inhalation
Potential Environmental Effects	See Section 12 for environmental effects

Section 3

• COMPOSITION / INFORMATION ON INGREDIENTS •

Section 3

ID	INGREDIENT	CAS NUMBER	EINECS	EU CLASSIFICATION	% WT
1	Polyisocyanate Prepolymer based on MDI	Trade Secret	—	Xn, Xi; 20-36/37/38-40-42/43-48/20	30 - 60
2	Aromatic Naphtha	064742-95-9	265-199-0	45-65	15 - 40
3	Methylene Bisphenyl Isocyanate (MDI)	000101-68-8	202-966-0	Xn, Xi; 20-36/37/38-40-42/43-48/20	10 - 30
4	Aluminum	007429-90-5	231-072-3	F; 10-15	5 - 10
5	Methylene Diphenyl Diisocyanate (Crude MDI)	026447-40-5	247-714-0	Xn, Xi; 20-36/37/38-40-42/43-48/20	1 - 5
6	Polymeric Diphenylmethane Polyisocyanate	009016-87-9	—	—	1 - 5
7	Hydrotreated Heavy Petroleum Naphtha	064742-48-9	265-149-8	Xn; 65	0.5 - 1.5

Risk Phrases	See Section 15 for risk phrase text
LD50 and LC50 Information	See Section 11 for toxicological information
Occupational Exposure Limits	See Section 8 for OELs

Section 4

• FIRST AID MEASURES •

Section 4

Ingestion	DO NOT INDUCE VOMITING! Wash mouth out with water. Do not give anything by mouth to an unconscious individual. Consult a physician.
Skin Contact	Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.
Eye Contact	Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.

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Inhalation	<i>Immediately move to an area free from exposure with fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.</i>
Notes to Physician	<i><u>Eyes:</u> Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparations as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. <u>Skin:</u> This product is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. <u>Ingestion:</u> Treat symptomatically. Inducing vomiting is contraindicated because of the irritating nature of the compound. <u>Inhalation:</u> Treat symptomatically. An individual having a dermal or pulmonary sensitization reaction to this product should be removed from further exposure to any diisocyanate.</i>
Antidotes	<i>No specific antidote.</i>

Section 5

● FIRE FIGHTING MEASURES ●

Section 5

Flash Point	<i>> 104 °F (40.0 °C)</i>
Autoignition Temperature	<i>444 °F (229.0 °C)</i>
Explosive Limits	<i>Not Available</i>
Conditions of Flammability	<i>Heat, sparks, flame, red hot metal</i>
Extinguishing Media	<i>CO₂, dry chemical, or universal aqueous film forming foam</i>
Unsuitable Extinguishing Media	<i>Water jet or water-based fire extinguishers</i>
Hazardous Combustion Products	<i>Nitrogen oxides, hydrogen cyanide, oxides of carbon (CO, CO₂), smoke, and vapors</i>
Sensitivity to Mechanical Impact	<i>Probably not sensitive as material is stable.</i>
Sensitivity to Static Discharge	<i>Vapor within the flammable limits may be ignited by a static discharge of sufficient energy.</i>
Special Equipment and Precautions	<i>Use water spray to cool fire exposed containers, as contents can rupture violently from heat developed pressure. Firemen should wear self-contained breathing apparatus.</i>
Special Explosion Hazards	<i>COMBUSTIBLE LIQUID. Vapors can form an explosive mixture with air and can travel to a source of ignition (spark or flame) and flash back.</i>
Autoreactivity / Oxidizing Properties	<i>Not available</i>

Section 6

● ACCIDENTAL RELEASE MEASURES ●

Section 6

Personal Precautions	<i>Use personal protection recommended in Section 8. Isolate hazard area and deny entry to unnecessary and unprotected personnel.</i>
Environmental Precautions	<i>Keep out of drains, sewers, ditches, and waterways. Avoid use of water.</i>
Containment Procedures	<i>Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents.</i>
Cleanup Procedures	<i>Avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.</i>
Other Information	<i>The North American Emergency Response Guidebook, the Australian Dangerous Goods-Initial Emergency Response Guide (SAA/SNZ HB 76), or similar resources providing emergency response information for dealing with accidents, spills, leaks, and/or fires involving dangerous goods.</i>
Prohibited Materials	<i>Combustible absorbent material such as sawdust, use of equipment that may cause sparking.</i>
Reporting Requirements	<i>Report releases that reach surface water or groundwater in any amount. Spills, leaks, and overfills from a regulated underground storage tank should also be reported. Reportable quantities for spills onto the ground depend on site conditions, such as the type of soil and the type of material spilled, and Federal and local agencies often have different reportable quantities. If you are unsure of your reporting requirements contact the regulating agency in your area.</i>

Section 7

● HANDLING AND STORAGE ●

Section 7

Precautions for Safe Handling and Use	<i>KEEP OUT OF THE REACH OF CHILDREN. When using in spray application, conformance to NFPA 33 Spray Applications using Flammable and Combustible Materials is recommended.</i>
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Storage Requirements and Conditions

For storage of all materials, conform to NFPA 30 Flammable and Combustible Liquids. Keep containers tightly closed and stored in a well-ventilated place. Keep away from sources of ignition.

Store in a dry well-ventilated area out of direct sunlight and away from heat and ignition sources. Store within recommended temperature range. Store away from incompatible materials, such as amines, alcohols, acids, bases, metal compounds and water which may react vigorously and/or violently.

Special Packaging Materials

Not applicable.

Section 8

• EXPOSURE CONTROLS / PERSONAL PROTECTION •

Section 8

Occupational Exposure Limits

ID	UNITED STATES OSHA PEL	UNITED STATES NIOSH REL	UNITED STATES NIOSH IDLH	UNITED STATES ACGIH TLV	AUSTRALIA TWA	GERMANY MAK	JAPAN OEL
1	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	N/E	N/E	N/E	N/E	N/E	N/E	N/E
3	0.02 ppm (C)	0.005 ppm	75 mg/m ³	0.005 ppm	0.02 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
4	15 mg/m ³	10 mg/m ³	N/E	10 mg/m ³	2 mg/m ³	N/E	2 mg/m ³
5	N/E	N/E	N/E	N/E	N/E	N/E	N/E
6	N/E	N/E	N/E	N/E	0.02 mg/m ³	N/E	N/E
7	5 mg/m ³	N/E	2500 mg/m ³	5 mg/m ³	10 mg/m ³	N/E	3 mg/m ³

ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWAEV	CANADA QUEBEC TWA	MEXICO MPEL-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEEL
1	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	N/E	N/E	N/E	N/E	N/E	N/E	N/E
3	0.005 ppm	0.005 ppm	0.005 ppm	0.005 ppm	0.02 mg/m ³	0.02 mg/m ³	N/E
4	10 mg/m ³	10 mg/m ³	10 mg/m ³	10 mg/m ³	10 mg/m ³	10 mg/m ³	N/E
5	N/E	N/E	N/E	N/E	N/E	N/E	N/E
6	0.005 ppm	0.005 ppm	N/E	0.005 ppm	N/E	0.02 mg/m ³	N/E
7	5 mg/m ³	1 mg/m ³	5 mg/m ³	5 mg/m ³	N/E	N/E	N/E

Engineering Measures

Because of the high potential hazard associated with isocyanates, consider the use of fully enclosed handling systems to control air concentration levels below the recommended exposure levels. Local exhaust ventilation may be necessary wherever materials containing isocyanates are handled, processed or cured, especially if heating or spraying is involved. Supply sufficient air to replace air removed by exhaust ventilation systems.

Biological Exposure Indices

None established.

General Hygiene Considerations

Avoid breathing vapors and contact with the skin and eyes. Always replace lid when not in use. Keep out the reach of children. Wash hands after use.

Thermal Hazards

This product does not present a thermal hazard.

PERSONAL PROTECTIVE EQUIPMENT



Respiratory Protection

A NIOSH approved air-purifying respirator with an organic vapor cartridge approved for use in isocyanate containing environments may be permissible under certain circumstances where concentrations are expected to exceed exposure limits. In spray applications you must protect against exposure to both vapor and spray mist. Protection provided by air-purifying systems is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, where exposure levels are not known, or any other situation where air purifying respirators may not provide adequate protection. In the United States ensure compliance with OSHA standard 29 CFR 1910.134.

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Skin Protection	<i>Ensure any exposed skin is covered by using chemical protective boots, gloves, coveralls, and/or other resistant protective clothing.</i>
Eye/Face Protection	<i>Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles or a full face shield are recommended.</i>
Other Protective Equipment	<i>Safety showers and eye-wash stations should be available in the workplace near where the material will be used.</i>

Section 9 • PHYSICAL AND CHEMICAL PROPERTIES • Section 9

Boiling Point	> 284 °F (140.0 °C)	Melting / Freezing Point	Not Available
Flash Point	> 104 °F (40.0 °C)	Autoignition Temperature, Liquid	444 °F (229.0 °C)
Explosive Limits	Not Available	Decomposition Temperature	Not Available
Flammability	Class II Liquid	Density (H ₂ O = 1)	1.053 g/cc
Molecular Weight	Not Available	Weight	8.785 lbs/gal
Vapor Pressure	38 mm Hg	pH	Not Available
Vapor Density	Not Available	Evaporation Rate (BuAC = 1)	Not Available
Physical State	Liquid	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor Threshold	Not Available	Heat of Combustion	Not Available
Odor	Paint-like	Water Solubility	Not Available
Appearance / Color	Silver		
Percent Volatile	31% Wt (37% Vol) Max	VOC Content, Actual	306 g/L
Percent VOC	31% Wt (37% Vol) Max	VOC Content, Regulatory	306 g/L
Percent Solids	70% Wt (64% Vol) Max	HAP Content	None
		Maximum Incremental Reactivity	2.227

Section 10 • STABILITY AND REACTIVITY • Section 10

Stability	<i>Stable</i>
Physical Hazards	<i>Combustible liquid</i>
Conditions to Avoid	<i>Moisture, heat, direct sunlight</i>
Hazard Polymerization	<i>May undergo uncontrolled exothermic polymerization upon contact with incompatible materials, especially strong bases, such as triethylamine and sodium hydroxide, trialkyl phosphines, potassium acetate, many metal compounds soluble in organic media, or if heated above 175 °C.</i>
Material Incompatibility	<i>Strong oxidizing agents, alcohols, halogenated hydrocarbons, acids, alkalis, alkali metals, water</i>
Conditions of Reactivity	<i>Heat, sparks, flame, red hot metal</i>
Decomposition Products	<i>4,4'-Methylene Dianiline (formed by reaction of isocyanates with water)</i>

Section 11 • TOXICOLOGICAL INFORMATION • Section 11

Irritancy of Product	<i>The following ingredients are skin irritants: Methylene Bisphenyl Isocyanate (MDI), Methylene Diphenyl Diisocyanate (Crude MDI), Polymeric Diphenylmethane Polyisocyanate. The following ingredients are respiratory irritants: Methylene Bisphenyl Isocyanate (MDI), Methylene Diphenyl Diisocyanate (Crude MDI), Polymeric Diphenylmethane Polyisocyanate.</i>
Sensitization to Product	<i>The following ingredients are considered skin and respiratory sensitizers: Methylene Bisphenyl Isocyanate (MDI), Methylene Diphenyl Diisocyanate, Polymeric Diphenylmethane Polyisocyanate.</i>

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Carcinogen Data	<i>Carbon Black is listed with IARC as Class 2B (possible human carcinogen) and is listed with ACGIH as A4 (not classifiable as a human carcinogen). Carbon Black is also listed with the States of California and Minnesota as a known carcinogen.</i>
Reproductive Toxicity	<i>None of the ingredients are known or suspected reproductive toxins</i>
Teratogenicity	<i>None of the ingredients are known or suspected teratogens</i>
Mutagenicity	<i>The following ingredients are considered mutagens: Carbon Black</i>
Synergistic Products	<i>No known synergistic properties.</i>

LD₅₀ and LC₅₀ Information

ID	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
1	Not Available	Not Available	Not Available
2	4700 mg/kg, rat	4000 mg/kg, rabbit	3670 ppm /8hr, rat
3	>10000 mg/kg, rat	> 10000 mg/kg, rabbit	490 mg/m ³ /4hr, rat
4	Not Available	Not Available	Not Available
5	9200 mg/kg, rat	>10000 mg/kg, rabbit	490 mg/m ³ /4hr, rat
6	>10000 mg/kg, rat	>6200 mg/kg, rabbit	490 mg/m ³ /4hr, rat
7	>5000 mg/kg, rat	>2000 mg/kg, rabbit	Not Available

Section 12

• ECOLOGICAL INFORMATION •

Section 12

Mobility	<i>Not Available</i>
Persistence	<i>Not Available</i>
Degradability	<i>Not Available</i>
Bioaccumulation	<i>Not Available</i>
Other Ecologic Data	<i>Do not allow to enter waters, waste water, or soil.</i>
Effects on the Ozone Layer	<i>This product does not contain any ozone depleting ingredients.</i>

Ecotoxicity

ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS
1	Not Available	Not Available	Not Available	Not Available
2	LC50: 320 mg/L /48 hr	EC50: 170 mg/L /24 hr	EC50: 56 mg/L /72 hr	Not Available
3	LC50: >500 mg/L /24 hr	EC50: >500 mg/L /24 hr	Not Available	Not Available
4	NOEC: >100 mg/L /48 hr	NOEC: >100 mg/L /48 hr	NOEC: >100 mg/L /72 hr	Not Available
5	Not Available	Not Available	Not Available	Not Available
6	Not Available	Not Available	Not Available	Not Available
7	Not Available	Not Available	Not Available	Not Available

Section 13

• DISPOSAL CONSIDERATIONS •

Section 13






Waste Disposal	<i>Hazard characteristics and regulatory waste stream classification can change with product use and location. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste material must be disposed of in compliance with the respective national, federal, state, and/or local regulations.</i>
Waste Disposal of Packaging	<i>Consult with your local landfill to determine if empty small containers can be disposed of regular trash pickup. For disposal of large containers (typically 10 gallon or larger), or for containers not suitable for landfill, containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.</i>
Landfill Precautions	<i>Not Available</i>
Incineration Precautions	<i>Not Available</i>

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Section 14 • TRANSPORTATION INFORMATION • Section 14

DOT SHIPPING INFORMATION (United States)  PROPER SHIPPING NAME: ... <i>Consumer Commodity</i> HAZARD CLASS: ... <i>ORM-D</i> PACKING GROUP: ... UN or ID NUMBER: ... NAERG GUIDE NUMBER: ... <i>128</i>		ICAO/IATA SHIPPING INFORMATION (International Air)  PROPER SHIPPING NAME: ... <i>Paint Related Material</i> HAZARD CLASS: ... <i>3</i> PACKAGING GROUP: ... <i>III</i> UN or ID NUMBER: ... <i>UN1263</i>	
IMDG SHIPPING INFORMATION (International Ocean)  PROPER SHIPPING NAME: ... <i>Paint Related Material</i> CLASS: ... <i>3</i> PACKAGING GROUP: ... <i>III</i> SUBSIDIARY RISK(S): ... UN or ID NUMBER: ... <i>UN1263</i> PACKING INSTRUCTIONS: ... <i>P001</i> EmS NO.: ... <i>F-E, S-E</i> STOWAGE: ... <i>Category B</i> MFAG NO.: ... <i>310, 313</i>		ADR SHIPPING INFORMATION (European Union)  PROPER SHIPPING NAME: ... <i>Paint Related Material</i> , ADR CLASS: ... <i>3</i> PACKAGING GROUP: ... <i>III</i> UN or ID NUMBER: ... <i>UN1263</i> CLASSIFICATION CODE: ... <i>F1</i> HAZARD IDENTIFICATION NO: ... <i>33</i> EMERGENCY ACTION CODE: ... <i>*3YE</i>	
TDG SHIPPING INFORMATION (Canada)  PROPER SHIPPING NAME: ... <i>Paint Related Material</i> HAZARD CLASS: ... <i>3</i> PACKAGING GROUP: ... <i>III</i> UN or ID NUMBER: ... <i>UN1263</i>		NMFC DESCRIPTION (United States) ITEM DESCRIPTION: <i>Paint Related Material</i> ITEM NUMBER: <i>149980 Sub 2</i> CLASS: <i>55</i>	

Section 15 • REGULATORY INFORMATION • Section 15

United States - Federal

ID	TSCA INVENTORY	SARA 302 EHS	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312 ACUTE	CHRONIC	PRESSURE	CLEAN AIR ACT	CLEAN WATER ACT
1	✓	—	—	—	—	—	—	—	—	—	—	—
2	✓	—	—	—	—	✓	—	—	—	—	—	—
3	✓	—	—	—	5000#	—	—	—	—	—	—	—
4	✓	—	—	—	—	—	—	—	—	—	—	—
5	✓	—	—	—	—	—	—	—	—	—	—	—
6	✓	—	—	—	5%	—	—	—	—	—	—	—
7	✓	—	—	—	—	—	—	—	—	—	—	—

United States - States

ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
3	—	✓	✓	2,4 F8 F9	E	ANO	—	✓	✓
4	—	✓	✓	4,5 F1 F9	E	A	✓	—	✓
5	—	—	—	—	—	—	—	—	—
6	—	✓	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—

United States - Massachusetts, Right-to-Know Extraordinarily Hazardous Substance List

TRACE CONTENT	TRACE COMPONENTS	CAS NUMBER
1 - 5 ppm	Furan	000110-00-9
1 - 5 ppm	Propylene Oxide	000075-56-9

United States - California, Proposition 65

TRACE CONTENT	TRACE COMPONENTS	CAS NUMBER
1 - 5 ppm	Furan	000110-00-9
1 - 5 ppm	Propylene Oxide	000075-56-9
< 1 ppm	Acetaldehyde	000075-07-0
< 1 ppm	Cobalt and Cobalt Compounds	007440-48-4

This product contains chemical(s) known to the State of California to be Carcinogenic. (see table above)

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Canada

ID	WHMIS CATEGORIES									CHEMICAL LISTS			
	A	B	C	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
1	—	—	—	—	—	—	—	—	—	✓	—	—	—
2	—	B3	—	—	—	—	—	—	—	✓	—	5	—
3	—	—	—	✓	—	✓	✓	—	—	✓	—	1A	—
4	—	B6	—	—	—	—	—	—	—	✓	—	1A	—
5	—	—	—	—	—	—	—	—	—	✓	—	—	—
6	—	—	—	✓	—	✓	✓	—	—	✓	—	1A	—
7	—	—	—	—	—	—	—	—	—	✓	—	5	—

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.

European Union

CODE	RISK PHRASES
R 15	Contact with water liberates extremely flammable gases
R 20	Harmful by inhalation
R 36/37/38	Irritating to eyes, respiratory system, and skin
R 40	Possible risks of irreversible effects
R 42/43	May cause sensitization by inhalation and skin contact
R 45	May cause cancer
R 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R 65	Harmful: may cause lung damage if swallowed

CODE	SAFETY PHRASES
S 1/2	Keep locked up and out of the reach of children
S 7/9	Keep container tightly closed and in a well ventilated place
S 23	Do not breath gas/fumes/vapour/spray
S 43	In case of fire use dry chemical
S 53	Avoid exposure
S 62	If swallowed do not induce vomiting, seek medical advise immediately

RoHS Compliance



This product is RoHS compliant according to the definitions and restrictions given by Directive 2002/95/EC and The Council of January 27, 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Australia

Poisons Schedule Number None of the ingredients are present at or above a concentration necessary for allocation of a Poisons Schedule Number.

Chemical Inventory Status All of the ingredients are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt.

Section 16

OTHER INFORMATION

Section 16

Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.

Revision History

Revision 1, 08/23/2010, Original
 Revision 2, 06/23/2011, Corrected VOC Content (Section 9)
 Revision 3, 02/28/2012, Updated Section 14