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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	24 hr Emergency
Product Name	Marine Clean	Phone Number
Synonyms	None	202 424 222
Products Uses	Cleaner	800-424-9300
Revision Number	1	(Chemtrec)

Revision Date October 26, 2010
Print Date February 9, 2011

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

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





I	HEALTH I	HAZARDS	PHYSICAL HAZARDS				
Irritant	1	Sensitizer	Combustible	Explosive		Pyrophoric	
Toxic		Highly Toxic	Flammable	Oxidizer		Water Reactive	
Corrosive	1	Carcinogenic	Compressed Gas	Organic Peroxide		Unstable	

☼ See Section 11

LABELING REQUIREMENTS							
CANADA UNITED STATES EUROPE & AUSTRALIA GHS							
@ ®	DANGER CONTENTS CORROSIVE	×	♦				

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Marine Clean

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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

POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Eye Contact Corrosive! May causes burning or irritation with symptoms of reddening, tearing, stinging, and swelling.

May cause corneal injury.

Skin Contact Corrosive! May cause burning or irritation with symptoms of reddening, itching, and swelling.

Ingestion Corrosive! May cause burning or irritation. Symptoms may include abdominal pain, nausea, vomiting,

diarrhea or death.

Inhalation May cause respiratory irritation

Effects of Chronic Exposure Not Available

Medical Conditions Aggravated May aggravate pre-existing conditions associated with the target organs.

Target Organs Eyes, Skin, Respiratory System

Routes of Exposure Skin contact, eye contact, inhalation

Potential Environmental Effects See Section 12 for environmental effects

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 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! Do not give anything by mouth to an unconscious individual. Consult a

physician immediately.

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. Remove contaminated clothing.

Eye Contact 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.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

Notes to Physician Treat symptomatically
Antidotes No specific antidote

Section 5 ● FIRE FIGHTING MEASURES ● Section 5

Flash Point Non-Flammable
Autoignition Temperature Non-Flammable
Explosive Limits Non-Flammable

Conditions of Flammability Heat, sparks, flame, red hot metal

Unsuitable Extinguishing Media Not applicable

Hazardous Combustion Products oxides of carbon (CO, CO2), smoke, and vapors
Sensitivity to Mechanical Impact Probably not sensitive as material is stable.

Sensitivity to Static Discharge Probably not sensitive as material is non-flammable.

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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

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 reside 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.

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/m3 C	2 mg/m3 C	N/E	2 mg/m3 C	2 mg/m3 C	N/E	2 mg/m3 C

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	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/m3 C	2 mg/m3 C	2 mg/m3 C	2 mg/m3 C	N/E	2 mg/m3 C	N/E

Biological Exposure Indices None established.

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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

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 ($H_2O = 1$)	1.027 g/cc
Molecular Weight	Not Available	Weight	8.573 lbs/gal
Vapor Pressure	Not Available	рН	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		

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 H2

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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 11 ● TOXICOLOGICAL INFORMATION ● Section 11

Irritancy of Product The following ingredients are eye irritants: Butyl Cellosolve, Potassium Hydroxide. The following

ingredients are skin irritants: Butyl Cellosolve, Potassium Hydroxide.

Sensitization to Product

None of the ingredients are known or suspected sensitizers

Carcinogen Data

None of the ingredients are known of suspected carcinogen

Reproductive Toxicity

None of the ingredients are known or suspected reproductive toxins

Teratogenicity None of the ingredients are known or suspected teratogens

Mutagenicity

None of the ingredients are known or suspected teratogens

None of the ingredients are known or suspected mutagens

Synergistic Products No known synergistic properties.

LD50 and LC50 Information

ID	ORAL LD50	DERMAL LD50	INHALATION LC50
1	> 89000 mg/kg, rat	Not Available	Not Available
2	470 mg/kg, rat	220 mg/kg, rabbit	2211 mg/m3 /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

MobilityNot AvailablePersistanceNot AvailableDegradibilityNot AvailableBioaccumulationNot Available

Other Ecologic Data Do not allow to enter waters, waste water, or soil.

Effects on the Ozone Layer This product does not contain any ozone depleting ingredients.

Ecotoxicity

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

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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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 14

TRANSPORTATION INFORMATION

Section 14

DOT SHIPPING INFORMATION (United States)

ORM-D

PROPER SHIPPING NAME: ... Consumer Commodity
HAZARD CLASS: ORM-D

PACKING GROUP: –
UN or ID NUMBER: –
NAERG GUIDE NUMBER: 171

ICAO/IATA SHIPPING INFORMATION (International Air)



PROPER SHIPPING NAME: . . Consumer Commodity HAZARD CLASS: 9

PACKAGING GROUP: –
UN or ID NUMBER: ID8000

IMDG SHIPPING INFORMATION (International Ocean)



PROPER SHIPPING NAME: ... Potassium Hydroxide solution

 CLASS:
 8

 PACKAGING GROUP:
 III

 SUBSIDIARY RISK(S):

 UN or ID NUMBER:
 UN

 UN or ID NUMBER:
 UN1814

 PACKING INSTRUCTIONS:
 P001, LP01

 EmS NO.:
 F-A, S-B

 STOWAGE:
 Category A

 MFAG NO.:
 705

ADR SHIPPING INFORMATION (European Union)



PROPER SHIPPING NAME: ... Potassium Hydroxide solution ADR CLASS: ... 8
PACKAGING GROUP: ... |||

TDG SHIPPING INFORMATION (Canada)



PROPER SHIPPING NAME: ... Potassium Hydroxide solution

HAZARD CLASS: 8

PACKAGING GROUP: III
UN or ID NUMBER: UN1814

NMFC DESCRIPTION (United States)

ITEM DESCRIPTION: Compounds Cleaning, NOI

ITEM NUMBER: 48580 Sub 3

CLASS: 55

Section 15

REGULATORY INFORMATION

Section 15

United States - Federal

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

United States - States

Office	Julios State	3							
ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	_	_	_	_	_	_		_	
2	_	_	/	2,4,6 F8		AO		_	/
3	_	_		_	_	_	_	_	_
4	_	/	/	4 5 F8	F	Α		/	/

Canada

	WHMIS CATEGORIES									CHEMIC	AL LISTS		
ID	Α	В	С	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

European onion	
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

EW #13596ZP - POR-15 Super Starter Kit (Part 1 Marine Clean)

MATERIAL SAFETY DATA SHEET

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Part No. MC

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CODE	SAFETY PHRASES
S 45	In case of accident or if you feel unwell, seek medical advice immediately
S 46	If swallowed, seek medical advice 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 supplied best judgement. However, no warranty of merchantability, fitness for any use, or an guarantee is expressed or implied regarding the accuracy of such data, or the results use thereof. Since the information contained herein may be applied under conditions and with which we may be unfamiliar, we do not assume any responsibility for application. This information is furnished upon the condition that the persons receiving own determinations of the suitability of the material for any particular use. Although described herein, we cannot guarantee these are the only hazards that exist.	ny other warranty or to be obtained from a beyond our control the results of such ng it shall make their
Revision History	Revision 1, 08/19/2010, Original Revision 2, 10/26/2010, Clarified EU information in Section 3	

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Prep & Ready™

Part No. MR Revision 2 **September 8**, 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 ●
--

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)

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

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





HE	ALTH	HAZARDS	PHYSICAL HAZARDS					
Irritant		Sensitizer	Combustible	Explosive	Pyrophoric			
Toxic		Highly Toxic	Flammable	Oxidizer	Water Reactive			
Corrosive	✓	Carcinogenic	Compressed Gas	Organic Peroxide	Unstable			

LABELING REQUIREMENTS								
CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS					
©	DANGER CONTENTS CORROSIVE	*	♦					

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Part No. MR

Revision 2 **September 8**, 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

POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Eye Contact Corrosive! May causes burning or irritation with symptoms of reddening, tearing, stinging, and swelling.

May cause corneal injury.

Skin Contact Corrosive! May cause burning or irritation with symptoms of reddening, itching, and swelling.

Ingestion Corrosive! May cause burning or irritation. Symptoms may include abdominal pain, nausea, vomiting,

diarrhea or death.

Inhalation May cause respiratory irritation

Effects of Chronic Exposure Phosphoric acid can irritate the lungs. Repeated overexposure may cause bronchitis.

Medical Conditions Aggravated May aggravate pre-existing conditions associated with the target organs.

Target Organs Eyes, Skin, Respiratory System

Routes of Exposure Skin contact, eye contact, inhalation

Potential Environmental Effects See Section 12 for environmental effects

ID	INGREDIENT	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 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! Do not give anything by mouth to an unconscious individual. Consult a

physician immediately.

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. Remove contaminated clothing.

Eye Contact 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.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

Notes to Physician Treat symptomatically
Antidotes No specific antidote

Section 5 ● FIRE FIGHTING MEASURES ● Section 5

Flash Point Non-Flammable
Autoignition Temperature Non-Flammable
Explosive Limits Non-Flammable

Conditions of Flammability Heat, sparks, flame, red hot metal

Unsuitable Extinguishing Media Water jet or water-based fire extinguishers

Hazardous Combustion Products oxides of carbon (CO, CO2), smoke, and vapors

Sensitivity to Mechanical Impact Probably not sensitive as material is stable.

Sensitivity to Static Discharge Probably not sensitive as material is non-flammable.

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Prep & Ready™

Part No. MR

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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

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 reside 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

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.

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/m3	1 mg/m3	1000 mg/m3	1 mg/m3	1 mg/m3	1 mg/m3	1 mg/m3
4	N/E	N/E	N/E	N/E	N/E	N/E	N/E

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	1 mg/m3	1 mg/m3	1 mg/m3	1 mg/m3	1 mg/m3	1 mg/m3	N/E
4	N/E	N/E	N/E	N/E	N/E	N/E	N/E

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

> 32 °F (0.0 °C) **Boiling Point** > 212 °F (100.0 °C) Melting / Freezing Point Non-Flammable Flash Point Non-Flammable Autoignition Temperature, Liquid **Explosive Limits** Non-Flammable **Decomposition Temperature** Not Available Flammability Non-Flammable Density (H₂O = 1)1.074 g/cc Molecular Weight Not Available Weight 8.966 lbs/gal Not Available 2.5 - 3.8 Vapor Pressure Ha 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 Volatile55% Wt (58% Vol) MaxVOC ContentNonePercent VOCNoneHAP ContentNoneSolids ContentNoneMaximum Incremental ReactivityNone

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 tetrahydoborate

Conditions of Reactivity Not Available
Decomposition Products Phosphorus oxides

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Section 11 ● TOXICOLOGICAL INFORMATION ● Section 11

Irritancy of Product The following ingredients are eye irritants: Phosphoric Acid. The following ingredients are skin irritants:

Phosphoric Acid.

Sensitization to Product

None of the ingredients are known or suspected sensitizers

Carcinogen Data

None of the ingredients are known of suspected carcinogen

Reproductive Toxicity

None of the ingredients are known or suspected reproductive toxins

Teratogenicity

None of the ingredients are known or suspected teratogens

Mutagenicity

None of the ingredients are known or suspected mutagens

Synergistic Products No known synergistic properties.

LD₅₀ and LC₅₀ Information

ID	ORAL LD50	DERMAL LD50	INHALATION LC50
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

MobilityNot AvailablePersistanceNot AvailableDegradibilityNot AvailableBioaccumulationNot Available

Other Ecologic Data 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.

Effects on the Ozone Layer This product does not contain any ozone depleting ingredients.

Ecotoxicity

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

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,

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)

ORM-D

PROPER SHIPPING NAME: ... Consumer Commodity
HAZARD CLASS: ORM-D

PACKING GROUP: - UN or ID NUMBER: - NAERG GUIDE NUMBER: 171

ICAO/IATA SHIPPING INFORMATION (International Air)



PROPER SHIPPING NAME: .. Consumer Commodity HAZARD CLASS: 9

PACKAGING GROUP: –
UN or ID NUMBER: ID8000

IMDG SHIPPING INFORMATION (International Ocean)



PROPER SHIPPING NAME: ... Phosphoric Acid solution CLASS: 8

 PACKAGING GROUP:
 III

 SUBSIDIARY RISK(S):

 UN or ID NUMBER:
 UN1805

 PACKING INSTRUCTIONS:
 P001, LP01

 Ems NO.:
 F-A, S-B

 STOWAGE:
 Category A

 MFAG NO.:
 705

ADR SHIPPING INFORMATION (European Union)



 PROPER SHIPPING NAME:
 Phosphoric Acid solution

 ADR CLASS:
 8

 PACKAGING GROUP:
 III

 UN or ID NUMBER:
 UN1805

 CLASSIFICATION CODE:
 C5

CLASSIFICATION CODE: C5
HAZARD IDENTIFICATION NO: 80
EMERGENCY ACTION CODE: 2R

TDG SHIPPING INFORMATION (Canada)



PROPER SHIPPING NAME: ... Phosphoric Acid solution

HAZARD CLASS: 8

PACKAGING GROUP: III
UN or ID NUMBER: ... UN1805

NMFC DESCRIPTION (United States)

ITEM DESCRIPTION: Compounds Cleaning, NOI

ITEM NUMBER: 48580 Sub 3

CLASS: 55

Section 15

REGULATORY INFORMATION

Section 15

United States - Federal

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

United States - States

0	a Ottatos Ottato	•							
ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	_	_	_	_	_	_	_	_	_
2	_	_		_			_		
3	_	1	1	2,4,5 F8 F9	_	AO	_	/	/
4	_			<u>—</u>		_	_	_	

Canada

	WHMIS CATEGORIES										CHEMIC	AL LISTS	
ID	Α	В	С	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

EW #13596ZP - POR-15 Super Starter Kit (Part 2 Prep & Ready)

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

RoHS Compliance

RoHS Compliant

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

Product Name POR-15 Rust Preventive Paint

Synonyms None
Products Uses Paint
Revision Number 1

Revision Date August 11, 2010
Print Date August 11, 2010

24 hr Emergency Phone Number

800-424-9300

(Chemtrec)

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

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





HEA	ALTH	HAZARDS		PHYSICAL HAZARDS				
Irritant	1	Sensitizer	1	Combustible <a> 	Explosive	Pyrophoric		
Toxic		Highly Toxic	1	Flammable	Oxidizer	Water Reactive		
Corrosive		Carcinogenic	❖	Compressed Gas	Organic Peroxide	Unstable		

☼ See Section 11

LABELING REQUIREMENTS								
CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS					
Ţ 🕲	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, sort 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

							% WT		
ID	INGREDIENT	CAS NUMBER	EINECS	EU CLASSIFICATION	BLACK	SEMI	CLEAR	SILVER	GRAY
1	Polyisocyanate Prepolymer based on MDI	Trade Secret	_	Xn, Xi; 20-36/37/38-40-42/43-48/20	30 - 60	_	30 - 60	_	30 - 60
2	Aromatic Polyisocyanate based on MDI	Trade Secret		Xn, Xi; 20-36/37/38-40-42/43-48/20	_	30 - 60	_	30 - 60	_
3	Aromatic Naphtha	064742-95-9	265-199-0	45-65	10 - 30	10 - 30	15 - 40	15 - 40	15 - 40
4	Proprietary Prepolymer	Trade Secret	_	_	10 - 30	10 - 30	10 - 30	10 - 30	10 - 30
5	Aliphatic Naphtha	064742-88-7	265-191-7	65	10 - 30	10 - 30	_	_	_
6	Methylene Bisphenyl Isocyanate (MDI)	000101-68-8	202-966-0	Xn, Xi; 20-36/37/38-40-42/43-48/20	7 - 13	7 - 13	7 - 13	7 - 13	7 - 13
7	Aluminum	007429-90-5	231-072-3	F; 10-15	_	_	_	3 - 7	_
8	Carbon Black	001333-86-4	215-609-9	_	3 - 7	3 - 7	_	_	0.1 - 1
9	Methylene Diphenyl Diisocyanate (Crude MDI)	026447-40-5	247-714-0	Xn, Xi; 20-36/37/38-40-42/43-48/20	1 - 5	3 - 7	1 - 5	3 - 7	1 - 5
10	Titanium Dioxide	013463-67-7	236-675-5	_	_	_	_	_	1 - 5
11	Polymeric Diphenlmethane Polyisocyanate	009016-87-9	_	_	1 - 5	_	1 - 5	_	1 - 5
12	Hydrotreated Heavy Petroleum Naphtha	064742-48-9	265-149-8	Xn; 65	_	_	_	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.

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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.

Inhalation 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.

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparations as Notes to Physician

needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: This product is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. Inducing vomiting is contraindicated because of the irritating nature of the compound. Inhalation: Treat symptomatically. An individual having a dermal or pulmonary sensitization reaction to this product should be removed from further exposure to any diisocyanate.

Antidotes No specific antidote.

Section 5 FIRE FIGHTING MEASURES **Section 5**

Flash Point > 106 °F (41.1 °C) **Autoignition Temperature** 444 °F (229.0 °C) **Explosive Limits** 0.60% to 6.50%

Conditions of Flammability Heat, sparks, flame, red hot metal

Extinguishing Media CO2, dry chemical, or universal aqueous film forming foam

Unsuitable Extinguishing Media Water jet or water-based fire extinguishers

Hazardous Combustion Products Nitrogen oxides, hydrogen cyanide, oxides of carbon (CO, CO2), smoke, and vapors

Probably not sensitive as material is stable. Sensitivity to Mechanical Impact

Sensitivity to Static Discharge Vapor within the flammable limits may be ignited by a static discharge of sufficient energy.

Use water spray to cool fire exposed containers, as contents can rupture violently from heat developed **Special Equipment and Precautions**

pressure. Firemen should wear self-contained breathing apparatus.

COMBUSTIBLE LIQUID. Vapors can form an explosive mixture with air and can travel to a source of Special Explosion Hazards

ignition (spark or flame) and flash back.

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. Avoid use of water.

Containment Procedures Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents.

Cleanup Procedures 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.

The North American Emergency Response Guidebook, the Australian Dangerous Goods-Initial

Other Information 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.

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

Report releases that reach surface water or groundwater in any amount. Spills, leaks, and overfills from Reporting Requirements 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.

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Section 7

HANDLING AND STORAGE

Section 7

Precautions for Safe Handling

and Use

Storage Requirements and Conditions

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.

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	UNITED STATES	UNITED STATES	UNITED STATES	AUSTRALIA	GERMANY	JAPAN
	OSHA PEL	NIOSH REL	NIOSH IDLH	ACGIH TLV	TWA	MAK	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	N/E	N/E	N/E	N/E	N/E	N/E	N/E
4	N/E	N/E	N/E	N/E	N/E	N/E	N/E
5	500 ppm	350 mg/m3	20000 mg/m3	100 ppm	790 mg/m3	N/E	N/E
6	0.02 ppm (C)	0.005 ppm	75 mg/m3	0.005 ppm	0.02 mg/m3	0.05 mg/m3	0.05 mg/m3
7	15 mg/m3	10 mg/m3	N/E	10 mg/m3	2 mg/m3	N/E	2 mg/m3
8	3.5 mg/m3	3.5 mg/m3 1750	1750 mg/m3	3.5 mg/m3	3 mg/m3	N/E	1 mg/m3
9	N/E	N/E	N/E	N/E	N/E	N/E	N/E
10	15 mg/m3	N/E	5000 mg/m3	10 mg/m3	10 mg/m3	N/E	1 mg/m3
11	N/E	N/E	N/E	N/E	0.02 mg/m3	N/E	N/E
12	5 mg/m3	N/E	2500 mg/m3	5 mg/m3	10 mg/m3	N/E	3 mg/m3

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	N/E	N/E	N/E	N/E	N/E	N/E	N/E
4	N/E	N/E	N/E	N/E	N/E	N/E	N/E
5	100 ppm	290 mg/m3	525 mg/m3	100 ppm	100 ppm	N/E	N/E
6	0.005 ppm	0.005 ppm	0.005 ppm	0.005 ppm	0.02 mg/m3	0.02 mg/m3	N/E
7	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	N/E
8	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	N/E
9	N/E	N/E	N/E	N/E	N/E	N/E	N/E
10	5 mg/m3	10 mg/m3	10 mg/m3	5 mg/m3	10 mg/m3	10 mg/m3	N/E
11	0.005 ppm	0.005 ppm	N/E	0.005 ppm	N/E	0.02 mg/m3	N/E
12	5 ma/m3	1 ma/m3	5 ma/m3	5 ma/m3	N/E	N/E	N/F

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.

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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.

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.

Silver 69% Wt (64% Vol) Max

Gray 68% Wt (62% Vol) Max

Section 9 PHYSICAL AND CHEMICAL PROPERTIES **Section 9 Boiling Point** > 284 °F (140.0 °C) Melting / Freezing Point Not Available Flash Point > 106 °F (41.1 °C) Autoignition Temperature, Liquid 444 °F (229.0 °C) 0.60% to 6.50% **Decomposition Temperature Explosive Limits** Not Available Flammability Class II Liquid Density (H₂O = 1)1.029 - 1.053 g/cc Molecular Weight Not Available Weight 8.584 - 8.784 lbs/gal Vapor Pressure 38 mm Hg Not Available рΗ Vapor Density 4.5 g/cc Maximum Evaporation Rate (BuAC = 1) 4.5 for Solvent **Partition Coefficient** Not Available **Physical State** Liquid 200-500 cps @ 25 °C Not Available Viscosity Refractive Index

2.174

2.433

Odor Threshold	Not Available	Heat of Combustion	Not Available
Odor	Paint-like	Water Solubility	Not Available
Appearance / Color	Colored liquid		
Percent Volatile	Black 30% Wt (36% Vol) Max Semi-Gloss 27% Wt (33% Vol) Max Clear 30% Wt (36% Vol) Max Silver 31% Wt (37% Vol) Max Gray 33% Wt (39% Vol) Max	VOC Content	2.524 lbs/gal (249.816 g/L) 2.280 lbs/gal (225.140 g/L) 2.587 lbs/gal (261.924 g/L) 2.721 lbs/gal (286.557 g/L) 2.846 lbs/gal (283.824 g/L)
Percent VOC	Black 30% Wt (36% Vol) Max Semi-Gloss 27% Wt (33% Vol) Max Clear 30% Wt (36% Vol) Max Silver 31% Wt (37% Vol) Max Gray 33% Wt (39% Vol) Max	HAP Content	None None None None None
Solids Content	Black 71% Wt (65% Vol) Max Semi-Gloss 74% Wt (68% Vol) Max Clear 71% Wt (65% Vol) Max	Maximum Incremental Reactivity	1.423 1.279 2.245

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Section 10 ● STABILITY AND REACTIVITY ● Section 10

Stability Stable

Physical Hazards Combustible liquid

Conditions to Avoid Moisture, heat, direct sunlight

Hazard Polymerization 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.

Material Incompatibility Strong oxidizing agents, alcohols, halogenated hydrocarbons, acids, alkalis, alkali metals, water

Conditions of Reactivity Heat, sparks, flame, red hot metal

Decomposition Products 4,4'-Methylene Dianiline (formed by reaction of isocyanates with water)

Section 11 ● TOXICOLOGICAL INFORMATION ● Section 11

Irritancy of Product

The following ingredients are skin irritants: Methylene Bisphenyl Isocyanate (MDI), Methylene Diphenyl Diisocyanate (Crude MDI), Polymeric Diphenlmethane Polyisocyanate. The following ingredients are respiratory irritants: Methylene Bisphenyl Isocyanate (MDI), Methylene Diphenyl Diisocyanate (Crude

MDI), Polymeric Diphenlmethane Polyisocyanate.

Sensitization to Product The following ingredients are considered skin and respiratory sensitizers: Methylene Bisphenyl

Isocyanate (MDI), Methylene Diphenyl Diisocyanate, Polymeric Diphenlmethane Polyisocyanate.

Carcinogen Data

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.

Reproductive Toxicity None of the ingredients are known or suspected reproductive toxins

Teratogenicity

None of the ingredients are known or suspected teratogens

Mutagenicity

The following ingredients are considered mutagens: Carbon Black

Synergistic Products No known synergistic properties.

LD₅₀ and LC₅₀ Information

ID	ORAL LD50	DERMAL LD50	INHALATION LC50
1	Not Available	Not Available	Not Available
2	Not Available	Not Available	Not Available
3	4700 mg/kg, rat	4000 mg/kg, rabbit	3670 ppm /8hr, rat
4	Not Available	Not Available	Not Available
5	Not Available	500 mg/kg, rabbit	Not Available
6	>10000 mg/kg, rat	> 10000 mg/kg, rabbit	490 mg/m3 /4hr, rat
7	Not Available	Not Available	Not Available
8	> 8000 mg/kg, rat	>3000 mg/kg, rabbit	Not Available
9	9200 mg/kg, rat	>10000 mg/kg, rabbit	490 mg/m3 /4hr, rat
10	>24000 mg/kg, rat	>10000 mg/kg, rabbit	>6.82 mg/L /4hr, rat
11	>10000 mg/kg, rat	>6200 mg/kg, rabbit	490 mg/m3 /4hr, rat
12	>5000 mg/kg, rat	>2000 mg/kg, rabbit	Not Available

Section 12 ● ECOLOGICAL INFORMATION ● Section 12

MobilityNot AvailablePersistanceNot AvailableDegradibilityNot AvailableBioaccumulationNot Available

Other Ecologic Data Do not allow to enter waters, waste water, or soil.

Effects on the Ozone Layer This product does not contain any ozone depleting ingredients.

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Ecotox	ricity			
ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS
1	Not Available	Not Available	Not Available	Not Available
2	Not Available	Not Available	Not Available	Not Available
3	LC50: 320 mg/L /48 hr	EC50: 170 mg/L /24 hr	EC50: 56 mg/L /72 hr	Not Available
4	Not Available	Not Available	Not Available	Not Available
5	Not Available	Not Available	Not Available	Not Available
6	LC50: >500 mg/L /24 hr	EC50: >500 mg/L /24 hr	Not Available	Not Available
7	NOEC: >100 mg/L /48 hr	NOEC: >100 mg/L /48 hr	NOEC: >100 mg/L /72 hr	Not Available
8	NOEC: 1000 mg/L /96 hr	EC50: >5600 mg/L /24 hr	Not Available	EC0: >100 mg/L /3 hr
9	Not Available	Not Available	Not Available	Not Available
10	LC50: >1000 mg/L /48 hr	Not Available	Not Available	Not Available
11	Not Available	Not Available	Not Available	Not Available
12	Not Available	Not Available	Not Available	Not Available

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 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.

Landfill Precautions Not Available
Incineration Precautions Not Available

Section 14

TRANSPORTATION INFORMATION

Section 14

DOT SHIPPING INFORMATION (United States)

ORM-D

PROPER SHIPPING NAME: . . . Consumer Commodity

HAZARD CLASS: ORM
PACKING GROUP: UN or ID NUMBER: -

NAERG GUIDE NUMBER: 171

ICAO/IATA SHIPPING INFORMATION (International Air)
PROPER SHIPPING NAME: .. Consumer Commodity

ADR SHIPPING INFORMATION (European Union)

PACKAGING GROUP: ///

HAZARD IDENTIFICATION NO: 33

EMERGENCY ACTION CODE: . • 3YE

UN or ID NUMBER: UN1263 CLASSIFICATION CODE: F1

ADR CLASS:

 HAZARD CLASS:
 9

 PACKAGING GROUP:

 UN or ID NUMBER:
 ID8000

PROPER SHIPPING NAME: ... Paint Related Material,

. 3

..... Limited Quantity

IMDG SHIPPING INFORMATION (International Ocean)

UN1263

 STOWAGE:
 Category B

 MFAG NO.:
 310, 313

TDG SHIPPING INFORMATION (Canada)

LIMITED

PROPER SHIPPING NAME: ... Paint Related Material,
Limited Quantity

HAZARD CLASS: 3
PACKAGING GROUP: III
UN or ID NUMBER: UN1263

NMFC DESCRIPTION (United States)

ITEM DESCRIPTION: Paint Related Material ITEM NUMBER: 149980 Sub 2

CLASS: 55

LQ

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		, ,,
Section 15	● REGULATORY INFORMATION ●	Section 15

United	States -	Federal

	TSCA	SARA 302						SARA 311/312		_	CLEAN	CLEAN
ID	INVENTORY	EHS	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	ACUTE	CHRONIC	PRESSURE	AIR ACT	WATER ACT
1	/	_	_	_	_	_	_	_	_	_	_	_
2	/					—	_				_	
3	/	_	_	_	_	/	_	/	/	_	_	_
4	/	_	_	_		_	_	_	_	_	_	
5	/	_	_	_	_	/	_	/	/	_	_	_
6	/	_	_	5000#	10 %	_	_	/	/	_	_	
7	/	_	_	_	5 %	_	_	_	_	_		_
8	/	_	_	_		_	_	/	/	_	_	
9	/	_	_	_	_	_	_	/	/	_	_	_
10	/	_	_	_		_	_	_	_	_	_	
11	/	_	_	_	_	_	_	/	/	_	_	_
12	/	_	_	_	_	_	_	/	/	_	_	

United States - States

	States - State.								
ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	_	_	_	_	_	_	_	_	_
2				_	_				_
3	_	_	_	_	_	_	_	_	_
4	_	_	_	_	_	_	_	_	—
5	_	_	/	2,4	_	ANO	_	_	/
6	_	/	/	2,4 F8 F9	E	ANO	_	/	/
7	_	/	/	4,5 F1 F9	E	Α	/	_	/
8	С	_	_	2,4 F5	_	ANOR*	_		/
9	_	_	_	_	_	_	_	_	_
10	_	_	_	4	_	Α	_	_	/
11	_	/	_	_	_	_	_	_	_
12		_	_		_		_		_

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

Offica States Mass	deliasetts, right to know Extraordinarily Hazardous Substance List	
TRACE CONTENT	TRACE COMPONENTS	CAS NUMBER
40-45 ppm	Hydrochloric Acid	007647-01-0
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)

Canada

		WHMIS CATEGORIES								CHEMICAL LISTS				
ID	Α	В	С	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC	
1	_	_	_	_	_	_	_	_	_	/	_	_	_	
2	_	_	_	_	_	_	_	_	_	_	/	_	_	
3	_	B3	_	_	_	_	_	_	_	/	_	5	_	
4	_	_	_	_	_	_	_	_	_	_	/	_	_	
5	_	В3	_	_	_	/	_	_	_	/	_	5	_	
6	_	_	_	/	_	/	/	_	_	/	_	1A	_	
7	_	B6	_	_	_	_	_	_	_	/	_	1A	_	
8	_	_	_	_	_	/	_	_	_	/	_	_	_	
9	_	_	_	_	_	_	_	_	_	/	_	_	_	

MATERIAL SAFETY DATA SHEET

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	WHMIS CATEGORIES									CHEMICAL LISTS				
ID	Α	В	С	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC	
10	_	_	_	_	_	/	_	_	_	/	_	_	_	
11	_	_	_	/		/	/	_	_	/	_	1 <i>A</i>	_	
12	_	_	_	_	_	_	_	_	_	/	_	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, 08/11/2010, Original