

Distributed By:  
The Easthill Group  
dba/ The Eastwood Company  
263 Shoemaker Road  
Pottstown, PA 19464  
USA & Canada: 800-345-1178  
Outside USA: 610-323-2200  
Emergency Contact: Chem-Trec 800-424-9300

## Material Safety Data Sheet

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** Steering Wheel Epoxy Putty (Part A)  
**Product Code:** SWPUA

**Date Prepared:** 12/15/11  
**Product Description:**  
Epoxide Resin Compound

### SECTION 2: HAZARDOUS INGREDIENTS

**Trade Secret:** Proprietary Formulated Epoxy Prepolymer

### SECTION 3: PHYSICAL DATA

<b>Melting Point:</b> NA	<b>Solubility in Water:</b> Negligible
<b>Boiling Point:</b> >300°F (>149°C)	<b>Specific Gravity:</b> 1.10 – 1.15
<b>Vapor Density (Air=1):</b> NA	<b>% Volatile by Vol.:</b> <0.1
<b>Appearance and Odor:</b> Liquid, clear, straw color. Mild aromatic	

### SECTION 4: FIRE AND EXPLOSION DATA

**Flash Point:** >250 °F

**Auto Ignition Temp.:**  
**LEL:** N/A    **UEL:** N/A

**Extinguishing Media:** Carbon dioxide, alcohol foam, dry chemical, and sand or limestone for small fire.

**Special Fire Fighting Procedures:** If heated, container may burst. Remove all persons from vicinity. Hazardous gases may be generated and burning may produce toxic fumes.

**Special Fire Fighting Equipment:** A face shield should be worn. Firefighters should wear butyl rubber boots, gloves, body suit and self-contained breathing apparatus.

### SECTION 5: HEALTH HAZARD DATA

**Emergency Overview:** Material can cause eye and skin irritation. Exposure can lead to respiratory tract irritation. Material may be harmful if swallowed. Heated material may cause thermal burns.

**Occupational Exposure Limits:**

<b>OSHA</b>	<b>PEL/TWA</b>	Not Established
<b>ACGIH</b>	<b>TLV/TWA</b>	Not Established

**Routes of Entry:** Inhalation, skin contact, ingestion, eye contact.

**Ingestion:** Low Single Oral Toxicity: LD50 (Rat) : >12,493 mg/kg. Not harmful under normal conditions. Ingestion of large amounts could result in a health hazard.

**Eye Contact:** Minor irritant. Exposure can cause irritation, redness and pain.

**Skin Contact:** Low Single Dermal Toxicity: LD50 (Rat): >1,363 mg/kg. Mild irritation. May be a skin sensitizer. Not likely to be absorbed in toxic amounts. Repeated exposure can lead to dryness and cracking.

**Inhalation:** Not likely a problem at room temperature. Vapors from heated material may be irritating. High concentrations of vapor can lead to irritation of nose, throat and lungs.

**Effect of Overexposure:** Possible nasal or lung irritation or central nervous system depression.

**First Aid**

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes. Refer to medical personnel if irritation persists.

**Skin Contact:** Immediately flush affected area with water for at least 15 minutes. Contact will probably cause no more than irritation. Remove contaminated clothing and shoes. Seek medical attention if irritation persists.

**Inhalation:** Remove to fresh air. Consult medical personnel. If not breathing, provide oxygen by trained personnel. If unconscious, place in recovery position.

**Ingestion:** Low in toxicity. Do not induce vomiting unless directed to do so by medical personnel. Slowly dilute with 1-2 glasses of water or milk. Move person to fresh air and seek medical attention. If unconscious, place in recovery position.

## SECTION 6: STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions. Prolonged excessive heat may cause partial degradation. Hazardous polymerization will not occur under normal conditions.

**Incompatibility:** Avoid active acids and bases and oxidizing agents. Material is a strong oxidizing agent, and reacts with considerable heat build up with some curing agents. Do not expose material to extreme temperatures.

**Hazardous Polymerizations:** Will not occur by itself, but masses of more than 1-2 pounds of product plus an aliphatic amine may cause irreversible reaction with considerable heat buildup.

**Hazardous Decomposition:** Carbon Dioxides.

## SECTION 7: SPILL, LEAK AND DISPOSAL PROCEDURES

**Action to Take For Spills:** Use appropriate safety equipment. Provide adequate ventilation and evacuate personnel from area. Stop flow of material with sand or other inert material. Remove container from spilled area. Soak spill in absorbent material or scrape up. Residual resin can be removed by use of non-flammable solvent such as methylene chloride.

**Disposal Method:** Do not dump into any sewers, on the ground or into any body of water. Avoid dispersal of spilled material and runoff. Dispose of in an approved landfill. All disposal methods must be compliant with all Federal, State, and local law and regulations.

## SECTION 8: HANDLING AND STORAGE INFORMATION

**Storage:** Store in sealed, original container in a cool, dry place.

**Ventilation:** Sufficient to minimize vapor exposure if generated.

**Respiratory Protection:** None likely needed in properly ventilated areas. If not, use appropriately fitting air purifying mask.

**Protective Clothing:** Clean, body-covering clothing. Disposable plastic or rubber gloves. Disposable containers and paper in work area. Wash hands, forearms and face before and after use.

**Eye Protection:** Safety glasses or tight fitted goggles.

#### **SECTION 9: SPECIAL PRECAUTIONS IN HANDLING AND STORAGE AND ADDITIONAL INFORMATION**

**Precautions to Be Taken In Handling and Storage:** None except normal handling care. Practice good caution and personal cleanliness to avoid eye and skin contact. Avoid breathing vapors if generated. Do not eat, drink or smoke when working with this product. Adhere to work practices established by government regulations when using this product.

#### **SECTION 10: TRANSPORTATION REQUIREMENTS**

<b>Proper Shipping Name:</b>	Not regulated
<b>Hazardous Class:</b>	Not Regulated
<b>ID Number:</b>	Not Regulated
<b>Packing Group:</b>	Not Regulated



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## Material Safety Data Sheet

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** Steering Wheel Epoxy Putty (Part B)  
**Product Code:** SWPUB

**Date Prepared/Revised:** 12/15/11  
**Product Description:** Epoxy Curing Agent

### SECTION 2: HAZARDOUS INGREDIENTS

**Trade Secret:** Proprietary Formulated Amines

### SECTION 3: PHYSICAL DATA

**Melting Point:** NA

**Solubility in Water:** Moderate

**Boiling Point:** >300°F (>149°C)

**Specific Gravity:** 1.006

**Vapor Density (Air=1):** NA

**% Volatile by Vol.:** 0

**Appearance and Odor:** Liquid, clear straw color. Mild ammonia.

### SECTION 4: FIRE AND EXPLOSION DATA

**Flash Point:** >300°F (>149°C)

**Auto Ignition Temp. :** N/A

**LEL:** N/A     **UEL:** N/A

**Extinguishing Media:** Carbon dioxide, alcohol foam dry chemical, and sand/limestone for small fire.

**Special Fire Fighting Procedures:** If heated, container may burst. Remove all persons from vicinity. Hazardous gases may be generated and burning may produce toxic fumes.

**Special Fire Fighting Equipment:** A face shield should be worn. Firefighters should wear butyl rubber boots, gloves, body suit and self-contained breathing apparatus.

### SECTION 5: HEALTH HAZARD DATA

**Emergency Overview:** Keep away from heat source. Material causes skin irritation and serious damage to eyes. Exposure may induce allergic reaction in skin.

#### Occupational Exposure Limits:

OSHA	PEL/TWA	Not Established
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ACGIH	TLV/TWA	Not Established
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**Routes Of Entry:** Inhalation, skin contact, ingestion, eye contact.

**Ingestion:** Low Single Oral Toxicity: LD50 (Rat) : >2273 mg/kg. Practically non-toxic unless ingested in large amounts.

**Eye Contact:** Material can cause serious eye irritation.

**Skin Contact:** Low Single Dermal Toxicity: LD50 (Rat) : >2273 mg/kg. Only minor irritation. Prolonged or repeated contact may lead to an allergic reaction.

**Inhalation:** Not likely a problem at room temperature. Vapors from heated material may be irritating.

**Effect Of Overexposure:** May cause skin sensitization. None other known.

**First Aid**

**Eye Contact:** Immediately flush eyes with water for at least 20 minutes. Washing within one minute is essential. Refer to medical personnel.

**Skin Contact:** Immediately flush affected area with water for at least 20 minutes. Contact will probably cause no more than irritation. Remove contaminated clothing and shoes. Seek medical attention if irritation continues.

**Inhalation:** Remove to fresh air. Consult medical personnel.

**Ingestion:** Toxic. Remove to fresh air. Do not induce vomiting. If vomiting occurs naturally, keep airway clear. If unconscious, place in recovery position. Never give anything by mouth if victim is losing consciousness. Seek medical personnel.

**SECTION 6: STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions. Prolonged excessive heat may cause partial degradation.

**Incompatibility:** Epoxy resins under uncontrolled conditions. Organic acids, mineral acids, oxidizers, nitrous acids and nitriles.

**Hazardous Polymerizations:** None

**Hazardous Decomposition Products:** Nitric acid, ammonia, nitrogen oxides, carbon monoxide, carbon dioxide and nitrosamine.

**SECTION 7: ACCIDENTAL RELEASE MEASURES**

**Action to Take For Spills:** Use appropriate safety equipment. Provide adequate ventilation and evacuate personnel from area. Stop flow of material with sand or other inert material. Remove container from spilled area. Soak spill in absorbent material or scrape up. Rinse with very hot water.

**Disposal Method:** Do not dump into any sewers, on the ground or into any body of water. Avoid dispersal of spilled material and runoff. Dispose of in an approved landfill. All disposal methods must be compliant with all Federal, State, and local law and regulations.

**SECTION 8: HANDLING AND STORAGE**

**Storage:** Store in sealed, original container in a cool, dry, well ventilated area.

**Ventilation:** Sufficient to minimize vapor exposure if generated. Ensure adequate ventilation.

**Respiratory protection:** None likely needed in properly ventilated areas. If not, use appropriately fitting air purifying mask.

**Protective Clothing:** Clean, body-covering clothing. Disposable plastic or rubber gloves.

Disposable containers and paper in work area. Wash hands, forearms and face before and after use.

**Eye Protection:** Safety glasses or tight fitted goggles.

**SECTION 9: PERSONAL PROTECTION**

**Precautions to Be Taken In Handling and Storage:** None except normal handling care. Practice good caution and personal cleanliness to avoid eye and skin contact. Avoid breathing vapors if generated. Do not eat, drink or smoke when working with this product. Adhere to work practices established by government regulations when using this product.

**SECTION 10: TRANSPORTATION REQUIREMENTS**

<b>Proper Shipping Name:</b>	Not regulated
<b>Hazardous Class:</b>	Not Regulated
<b>ID Number:</b>	Not Regulated
<b>Packing Group:</b>	Not Regulated



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**SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Material Identity**

Product Name:

Liquid Activator

Product Numbers:

SWLA

Product Use:

Polymerization initiator

Distributed By:

The Easthill Group

dba/ The Eastwood Company

263 Shoemaker Road

Pottstown, PA 19464

USA &amp; Canada: 800-345-1178

Outside USA: 610-323-2200

**Emergency Telephone Numbers:**

CHEMTREC: 1-800-424-9300

**SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient(s)	CAS Number	EINECS Number	% (by weight)
Propanoic acid, ester	6846-50-0	229-934-9	60 – 70
Methyl Ethyl Ketone Peroxide	1338-23-4	215-661-2	30 – 35
Hydrogen Peroxide	7722-84-1	231-765-0	0.001 – 3.0
Water	7732-18-5	231-791-2	0.001 – 2.0
Methyl Ethyl Ketone	78-93-3	201-159-0	0.001 – 2.0

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

**SECTION 3. HAZARDS IDENTIFICATION****\*\*\*EMERGENCY OVERVIEW\*\*\***

DANGER! ORGANIC PEROXIDE. HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED.

**Potential Health Effects****Acute Effects (Short Term):**

- Eye:** Contact with liquid or vapor may result in burns and possibly permanent damage. Symptoms may include burning, redness, tearing, and blurred vision.
- Skin:** May cause severe skin irritation with blistering. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

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**Swallowing:** Ingestion of this material may cause severe gastrointestinal irritation, or burns of the mouth, throat, esophagus and stomach, nausea, diarrhea, and vomiting. Aspiration of this material into the lungs due to vomiting may cause severe lung injury.

**Inhalation:** Excessive inhalation of vapors may cause severe nasal and respiratory irritation, acute nervous system depression, fatigue, weakness, nausea, headache, and dizziness. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

**Chronic Effects of Overexposure (Long Term):**

**Product:** Prolonged and /or repeated inhalation is expected to be severely irritating to the respiratory system.

**Methyl Ethyl Ketone:** Animal tests show that this substance possibly causes toxic effects upon human reproduction.

**Cancer Information:** This product does not contain any substance, which is listed as a carcinogen by NTP, IARC or OSHA.

**Other Health Effects:** NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**Primary Route(s) of Entry:** Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

**SECTION 4. FIRST AID MEASURES**

**Eyes:** Flush eyes gently with water for at least 15 minutes. Seek immediate medical attention. DO NOT let victim rub eyes. Do not attempt to use any neutralization chemicals.

**Skin:** Immediately remove contaminated clothing. Wash exposed area with soap and water. Seek medical attention. Launder clothing before reuse.

**Swallowing:** Consult a physician or poison control center immediately. DO NOT INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended.

**Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel.



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**SECTION 5. FIRE FIGHTING MEASURES****Flash Point:** 179.6 °F (82.0 °C)**Explosive Limit:** Lower: 2.0% Upper: 11.0%**Autoignition Temperature:** Not Determined**OSHA Flammability Class:** Combustible Liquid – Class IIIA

**Hazardous Products of Combustion:** May form toxic and corrosive gases: carbon dioxide, carbon monoxide, water, acetic acid, formic acid, propionic acid, methyl ethyl ketone and various hydrocarbons.

**Fire and Explosion Hazards:** Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

**Extinguishing Media:** Regular foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions:** Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus NIOSH approved with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

**NFPA Rating:** Health - 3, Flammability - 2, Reactivity - 2

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**In Case of Spill:** Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbant and dispose of properly.

**SECTION 7. HANDLING AND STORAGE**

**Handling:** All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe vapors or spray mist. Do not take internally. Close container after each use. **Keep out of reach of children.**

**Storage:** Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C). To prevent possible self-accelerating decomposition, temperatures in the storage facility must not exceed 131°F (55°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eye Protection:** Chemical splash goggles in compliance with OSHA regulations are recommended.

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**Skin Protection:** Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory Protection:** Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below acceptable limits. Explosion-proof ventilation system is acceptable.

**Exposure Guidelines:**

Hazardous Ingredients	CAS Number	OSHA PEL/TWA	ACGIH TLV
Hydrogen Peroxide	7722-84-1	1 ppm	1 ppm
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm
Methyl Ethyl Ketone Peroxide	1338-23-4	N/E	0.2 ppm C
Mppcf- millions of particles per cubic foot of air C-Ceiling		N/E-Not Established	

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	176 - 536 °F/ 80 - 280 °C	<b>Vapor Density:</b>	Heavier than air.
<b>Specific Gravity / Density:</b>	1.0/ 8.42 lbs/gal	<b>Percent Volatiles by weight:</b>	Not Available
<b>Evaporation Rate:</b>	Slower than ethyl ether.	<b>Physical State:</b>	Liquid
<b>Melting Point:</b>	32 °F / 0 °C	<b>pH:</b>	Not Determined
<b>Odor:</b>	Ketone odor.	<b>Solubility:</b>	Moderate in water.
<b>Vapor Pressure:</b>	23.2 mmHg @ 68 °F / 20 °C (H <sub>2</sub> O <sub>2</sub> )	<b>Appearance:</b>	Clear, Colorless Liquid
<b>Octanol/Water Partition Coefficient:</b>	Unknown	<b>VOC (as packaged-less exempts and water):</b>	0.168 lbs/gal or 20 g/L

**SECTION 10. STABILITY AND REACTIVITY**

**Hazardous Polymerization:** Product may undergo hazardous polymerization if exposed to temperatures above 131°F (55°C).



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**Hazardous Decomposition:** May form toxic and corrosive gases: carbon dioxide, carbon monoxide, oxygen, ethane, methane, and various hydrocarbons.

**Chemical Stability:** Stable under normal handling conditions.

**Incompatibility:** Avoid contact in uncontrolled conditions with: organic materials, inorganic acids, strong oxidizing agents, accelerators, reducing materials and strong bases.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute Toxicity Data:**

<b>Ingredient</b>	<b>CAS #</b>	<b>LD<sub>50</sub> Oral-Rat</b>	<b>LC<sub>50</sub> Inhalation-Rat</b>
Methyl Ethyl Ketone Peroxide	1338-23-4	484 mg/kg	200 ppm/4H
Propanoic Acid, ester	6846-50-0	>3,200 mg/kg	N/E
Methyl Ethyl Ketone	78-93-3	2,737 mg/kg	23,500 mg/m <sup>3</sup> /8H

**Carcinogenicity:** See Cancer Information, Section 3.

**Mutagenicity:** No significant evidence found.

**Teratogenicity:** Development inhalation toxicity studies with methyl ethyl ketone in rats and mice resulted in fetal toxicity at maternally toxic doses.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** The ecological toxicity of this product is not known.

**SECTION 13. DISPOSAL CONSIDERATION**

**RCRA Hazardous Waste:** This material as supplied, if discarded, would be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state, and local regulations.

**RCRA Hazard Class:** This material would be regulated as EPA Hazardous Waste Number D001 based on the characteristic of ignitability (oxidizer), D002 based on the characteristic of corrosivity, D003 based on the characteristic of reactivity, U160 (contains MEKP) and D035 (contains MEK).

**SECTION 14. TRANSPORT INFORMATION**

**DOT Description:** The DOT Classification for shipping is dependant on quantity, type of packaging (a kit may include other components), or method of shipment.



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**SECTION 15. REGULATORY INFORMATION****US Federal Regulations****TSCA (Toxic Substances Control Act) Status**

TSCA (USA) The intentional ingredients of this product are listed.

**CERCLA RQ - 40 CFR 302.4(a)**

Component	RQ (lbs.)
Methyl Ethyl Ketone Peroxide	10
Methyl Ethyl Ketone	5000

**SARA Title III: Section 302- Extremely Hazardous Substances**

None

**SARA Title III: Section 313- Toxic Chemical List**

Component	CAS Number	Percentage
Methyl Ethyl Ketone	78-93-3	0.001 – 2.0%

**International Regulations****EINECS (Europe)** The intentional ingredients of this product are listed.**DSL (Canada)** The intentional ingredients of this product are listed.**WHMIS Classification****Health Hazard:** C, D2A, E, F (Oxidizer, Toxic Effects, Corrosive, Dangerously Reactive Materials)**Physical Hazard:** B3 (Combustible)**State and Local Regulations****California Proposition 65:**

This product contains the following chemical(s) known to the state of California to cause cancer. NONE

This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. NONE

**SECTION 16. OTHER INFORMATION****HMIS Rating:** Health – 3, Flammability - 2, Reactivity - 2

Key- 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, \*=Chronic Effects

**Other Precautions for Use:** DO NOT return unused material to the original container.

DO NOT contaminate product with foreign materials, it may cause hazardous decomposition. Additional Information may be obtained by calling the POR-15 MSDS Hotline at 1-800-457-6715.

**NOTICE:** The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.

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## Safety Data Sheet

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<b>Transportation version number:</b>	1.00 (20/07/2010)		

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

SW High Gloss Polish

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses

Automotive.

#### 1.3. Details of the supplier of the substance or mixture

**Address:** P.O. Box 1235, Morristown, NJ 07962-1235  
**Telephone:** 1-(800)-457-6715  
**E Mail:** support@por15.com  
**Website:** www.por15.com

#### 1.4. Emergency telephone number

1-800-424-9300

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Indication of danger

R66

For full text of R phrases, see Section 16.

#### 2.2. Label elements

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbols None.

**Contains:**

No ingredients are assigned to the label.

**Risk phrases**

R66 Repeated exposure may cause skin dryness or cracking.

**Safety phrases**

S23A Do not breathe vapour.  
 S24 Avoid contact with skin.  
 S62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label.  
 S2 Keep out of the reach of children.

**Notes on labelling**

Nota P applied to CASRN 64742-48-9. Nota N applied to CASRN 64742-46-7. R65 not applied due to product viscosity.

**2.3. Other hazards**

None known.

<b>SECTION 3: Composition/information on ingredients</b>
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Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non-Hazardous Ingredient	Mixture		50 - 70	
Naphtha (petroleum), hydrotreated heavy	64742-48-9	EINECS 265-150-3	10 - 30	Xn:R65 - Nota 4,P (EU) R66; R67 (Self Classified)  Asp. Tox. 1, H304 - Nota P (CLP) STOT SE 3, H336; EUH066 (Self Classified)
Distillates (petroleum), hydrotreated middle	64742-46-7	EINECS 265-148-2	5 - 10	Nota N (EU) Xn:R20-65; R66 (Self Classified)  Nota N (CLP) Acute Tox. 4, H332; Asp. Tox. 1, H304; STOT SE 3, H336; EUH066 (Self Classified)
Diatomaceous Earth	61790-53-2		5 - 10	
Glycerin	56-81-5	EINECS 200-289-5	3 - 7	
Processed oil	Trade Secret		3 - 7	
Conditioners	Trade Secret		< 5	

Please see section 16 for the full text of any R phrases and H statements referred to in this section

Please refer to section 15 for the any applicable Notas that have been applied to the above components

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

<b>SECTION 4: First aid measures</b>
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**4.1. Description of first aid measures**



**Eye contact**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**Skin contact**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1 Information on toxicological effects

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Extinguishing media**

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Hydrocarbons.

Carbon monoxide.

Carbon dioxide.

Irritant vapours or gases.

**Condition**

During combustion.

During combustion.

During combustion.

During combustion.

**5.3. Advice for fire-fighters**

No unusual fire or explosion hazards are anticipated.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

V

exhaust vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible.

P

Seal the container. Dispose of collected material as soon as possible.

**6.4. Reference to other sections**

Refer to Section 8 and Section 13 for more information

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not use in a confined area or areas with little or no air movement. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

**7.2. Conditions for safe storage including any incompatibilities**

Store away from acids. Store away from heat. Store away from oxidising agents. Store in a well-ventilated place. Keep container tightly closed. Store away from strong bases.

**7.3. Specific end use(s)**

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limits**

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Glycerin	56-81-5	Health and Safety Comm. (UK)	TWA(as mist):10 mg/m <sup>3</sup>	
Diatomaceous Earth	61790-53-2	Health and Safety Comm. (UK)	TWA(as respirable dust):1.2 mg/m <sup>3</sup>	
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Manufacturer determined	TWA:100 ppm	

Health and Safety Comm. (UK) : UK Health and Safety Commission  
TWA: Time-Weighted-Average  
STEL: Short Term Exposure Limit  
ppm: parts per million  
mg/m<sup>3</sup>: milligrams per cubic metre  
CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

The following eye protection(s) are recommended: Safety glasses with side shields.

**Skin/hand protection**

Gloves made from the following material(s) are recommended: Neoprene.

Nitrile rubber.  
Polymer laminate

### Respiratory protection

An a

a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Sweet Odour; Yellow green
pH	5.50 - 6.50
Boiling point/boiling range	198.9 °C
Boiling point/boiling range	
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	> 93.3 °C [ <i>Test Method:</i> Closed Cup]
Flash point	> 93 °C [ <i>Test Method:</i> Closed Cup]
Autoignition temperature	<i>No data available.</i>
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Relative density	0.96 g/cm3 [ <i>Ref Std:</i> WATER=1]
Water solubility	Moderate
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	5 - 8 Pa-s
Density	0.96 g/ml

### 9.2. Other information

Volatile organic compounds (VOC)	14.47 %
Volatile organic compounds (VOC)	216.00 g/l

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.



**10.3 Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**

Heat.

**10.5 Incompatible materials**

Strong acids.

Strong bases.

Strong oxidising agents.

**10.6 Hazardous decomposition products****Substance**

None known.

**Condition****SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1 Information on Toxicological effects****Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

**Eye contact**

Contact with the eyes during product use is not expected to result in significant irritation.

**Skin contact**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

**Inhalation**

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause target organ effects after inhalation.

**Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**Target Organ Effects:**

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**Toxicological Data****Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg
Naphtha (petroleum), hydrotreated heavy	Dermal	Rabbit	LD50 > 3,000 mg/kg

Naphtha (petroleum), hydrotreated heavy	Inhalation-Vapor (4 hours)	Rat	LC50 estimated to be 20 - 50 mg/l
Naphtha (petroleum), hydrotreated heavy	Ingestion	Rat	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated middle	Dermal	Rabbit	LD50 > 2,000 mg/kg
Distillates (petroleum), hydrotreated middle	Inhalation-Dust/Mist (4 hours)	Rat	LC50 5 mg/l
Distillates (petroleum), hydrotreated middle	Ingestion	Rat	LD50 > 5,000 mg/kg
Diatomaceous Earth	Dermal	Rabbit	LD50 > 5,000 mg/kg
Diatomaceous Earth	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Diatomaceous Earth	Ingestion	Rat	LD50 > 5,110 mg/kg
Processed oil	Ingestion		LD50 estimated to be > 5,000 mg/kg
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	Ingestion	Rat	LD50 > 5,000 mg/kg
Conditioners			No data available

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Naphtha (petroleum), hydrotreated heavy		Mild irritant
Distillates (petroleum), hydrotreated middle	Rabbit	Minimal irritation
Diatomaceous Earth	Rabbit	No significant irritation
Processed oil		Minimal irritation
Glycerin	Rabbit	No significant irritation
Conditioners		No data available

**Serious Eye Damage/Irritation**

Name	Species	Value
Naphtha (petroleum), hydrotreated heavy		Mild irritant
Distillates (petroleum), hydrotreated middle	Not available	Mild irritant
Diatomaceous Earth	Rabbit	No significant irritation
Processed oil		Mild irritant
Glycerin	Rabbit	No significant irritation
Conditioners		No data available

**Skin Sensitisation**

Name	Species	Value
Naphtha (petroleum), hydrotreated heavy		Not sensitizing
Distillates (petroleum), hydrotreated middle		No data available
Diatomaceous Earth	Human and animal	Not sensitizing
Processed oil		Some positive data exist, but the data are not sufficient for classification
Glycerin	Guinea pig	Not sensitizing
Conditioners		No data available

**Respiratory Sensitisation**

Name	Species	Value
Naphtha (petroleum), hydrotreated heavy		No data available
Distillates (petroleum), hydrotreated middle		No data available
Diatomaceous Earth		No data available
Processed oil		No data available
Glycerin		No data available
Conditioners		No data available

**Germ Cell Mutagenicity**

Name	Route	Value
------	-------	-------

Naphtha (petroleum), hydrotreated heavy	Inhalation	Not mutagenic
Naphtha (petroleum), hydrotreated heavy	In Vitro	Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), hydrotreated middle	In Vitro	Some positive data exist, but the data are not sufficient for classification
Diatomaceous Earth	In Vitro	Not mutagenic
Processed oil	In Vitro	Not mutagenic
Processed oil	In vivo	Not mutagenic
Glycerin		No data available
Conditioners		No data available

**Carcinogenicity**

Name	Route	Species	Value
Naphtha (petroleum), hydrotreated heavy	Dermal		Some positive data exist, but the data are not sufficient for classification
Naphtha (petroleum), hydrotreated heavy	Inhalation		Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), hydrotreated middle	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Diatomaceous Earth	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Processed oil			No data available
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Conditioners			No data available

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Naphtha (petroleum), hydrotreated heavy	Inhalation	Not toxic to reproduction and/or development		NOAEL 2.356 mg/l	
Distillates (petroleum), hydrotreated middle		No data available			
Diatomaceous Earth	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Diatomaceous Earth	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Diatomaceous Earth	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Processed oil	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 248 mg/kg/day	
Glycerin	Ingestion	Not toxic to female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not toxic to male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not toxic to development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Conditioners		No data available			



**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Naphtha (petroleum), hydrotreated heavy	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Naphtha (petroleum), hydrotreated heavy	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Naphtha (petroleum), hydrotreated heavy	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		NOEL 6.5 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 2.4 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	heart	All data are negative		NOAEL 2.5 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	liver   kidney and/or bladder	All data are negative		NOAEL 0.610 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	muscles	All data are negative		NOAEL 0.61 mg/l	
Distillates (petroleum), hydrotreated middle	Inhalation	central nervous system depression   respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Not available	NOAEL NA	
Distillates (petroleum), hydrotreated middle	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Not available	NOAEL NA	
Diatomaceous Earth			No data available			
Processed oil			No data available			
Glycerin			No data available			
Conditioners			No data available			

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Naphtha (petroleum), hydrotreated heavy	Dermal	nervous system	Some positive data exist, but the data are not sufficient for classification		LOEL 691 mg/kg	
Naphtha	Inhalation	nervous system	Some positive		LOEL 4.580	

(petroleum), hydrotreated heavy			data exist, but the data are not sufficient for classification		mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.619 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	endocrine system   muscles	Some positive data exist, but the data are not sufficient for classification		LOEL 0.616 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 0.57 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	bone, teeth, nails, and/or hair   blood   liver	All data are negative		NOAEL 5.62 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	heart	All data are negative		NOAEL 1.271 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	immune system	All data are negative		NOAEL 0.616 mg/l	
Distillates (petroleum), hydrotreated middle			No data available			
Diatomaceous Earth	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
Processed oil	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 3,000 mg/kg/day	
Processed oil	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		LOEL 300 mg/kg/day	
Processed oil	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification		LOEL 248 mg/kg/day	
Processed oil	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 2,000 mg/kg/day	
Glycerin	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 3.91 mg/l	14 days

			classification			
Glycerin	Inhalation	heart   liver   kidney and/or bladder	All data are negative	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Ingestion	endocrine system   hematopoietic system   liver   kidney and/or bladder	All data are negative	Rat	NOAEL 10,000 mg/kg/day	2 years
Conditioners			No data available			

**Aspiration Hazard**

Name	Value
Naphtha (petroleum), hydrotreated heavy	Aspiration hazard
Distillates (petroleum), hydrotreated middle	Aspiration hazard
Diatomaceous Earth	Not an aspiration hazard
Processed oil	Not an aspiration hazard
Glycerin	Not an aspiration hazard
Conditioners	Not an aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

No component test data available.

**12.2. Persistence and degradability**

No test data available.

**12.3 : Bioaccumulative potential**

No test data available.

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5. Results of the PBT and vPvB assessment**

No information available at this time, contact manufacturer for more details



**12.6. Other adverse effects**

No information available.

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations

Dispose of waste product in a permitted industrial waste facility. Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

**EU waste code (product as sold)**

20 01 13\* Solvents

**SECTION 14: Transportation information**

ADR: Not restricted for transport.

IMDG: Not restricted for transport.

IATA: Not restricted for transport.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Global inventory status**

Contact manufacturer for more information

**15.2. Chemical Safety Assessment**

Not applicable

**SECTION 16: Other information****List of relevant H statements**

EUH066	Repeated exposure may cause skin dryness or cracking.
H304	May be fatal if swallowed and enters airways.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

**List of relevant R-phrases**

R20	Harmful by inhalation.
R65	Harmful: May cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

**Revision information:**

Revision Changes:

Section 6: Accidental release clean-up information was modified.

Section 7: Precautions safe handling information was modified.

Section 2: Indication of danger heading was added.

Section 2: Indication of danger information was added.

Section 2: R phrase reference was added.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

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**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)

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*


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	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

## 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	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
Extinguishing Media	Use extinguishing media suitable for nearby materials
Unsuitable Extinguishing Media	Not applicable
Hazardous Combustion Products	oxides of carbon (CO, CO <sub>2</sub> ), 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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**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 <sup>3</sup> C	2 mg/m <sup>3</sup> C	N/E	2 mg/m <sup>3</sup> C	2 mg/m <sup>3</sup> C	N/E	2 mg/m <sup>3</sup> C

ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWA/VEV	CANADA QUEBEC TWA	MEXICO MPEL-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEL
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 <sup>3</sup> C	2 mg/m <sup>3</sup> C	2 mg/m <sup>3</sup> C	2 mg/m <sup>3</sup> C	N/E	2 mg/m <sup>3</sup> 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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**Marine Clean**

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 <sub>2</sub> 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 <sub>2</sub>



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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>

**LD<sub>50</sub> and LC<sub>50</sub> Information**

ID	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>	INHALATION LC <sub>50</sub>
1	> 89000 mg/kg, rat	Not Available	Not Available
2	470 mg/kg, rat	220 mg/kg, rabbit	2211 mg/m <sup>3</sup> /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	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	<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**

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

**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	A	B	C	WHMIS CATEGORIES D1A	D1B	D2A	D2B	D3	E	DSL	CHEMICAL LISTS 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*