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13580ZP 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	<ul> <li>● PRODUCT AND COMPANY IDENTIFICATION</li> </ul>	Section 1
Product Numbers	MC	24 hr Emergency
Product Name	Marine Clean	Phone Number

Synonyms None
Products Uses Cleaner

Revision Number 1

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

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 Xn, Xi, C

R 20/21/22-34-36/38 S 1/2-26-36/37/39-45-46

WHMIS Classification D2A, D2B





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

☼ See Section 11

LABELING REQUIREMENTS							
CANADA UNITED STATES EUROPE & AUSTRALIA GHS							
<b>@</b> ®	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

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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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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	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	50 ppm	5 ррт	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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**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	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
Annearance / 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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# 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

None of the ingredients are known or suspected mutagens

Synergistic Products No known synergistic properties.

### LD<sub>50</sub> and LC<sub>50</sub> 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

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 

PACKAGING GROUP: .... – UN or ID NUMBER: ..... ID8000

### IMDG SHIPPING INFORMATION (International Ocean)



PROPER SHIPPING NAME: . . . Potassium Hydroxide solution

CLASS: ..... 8 PACKAGING GROUP: ..... /// SUBSIDIARY RISK(S): ....

UN or ID NUMBER: ..... UN1814 PACKING INSTRUCTIONS: ... P001, LP01 STOWAGE: ..... Category A 

## ADR SHIPPING INFORMATION (European Union)



PROPER SHIPPING NAME: ... Potassium Hydroxide solution **ADR CLASS:** ..... 8 PACKAGING GROUP: ..... /// UN or ID NUMBER: ..... UN1814 CLASSIFICATION CODE: ..... C5

**HAZARD IDENTIFICATION NO: 80 EMERGENCY ACTION CODE: . 2R** 

### TDG SHIPPING INFORMATION (Canada)



PROPER SHIPPING NAME: ... Potassium Hydroxide solution

HAZARD CLASS: ..... 8

PACKAGING GROUP: ..... /// 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								CHEMICAL LISTS				
ID	Α	В	С	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
1	_	_	_	_	_	_	_	_	_	/	_		_
2	_	В3	_	_	_	/	/	_	_	/	_	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	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.

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