Date Prepared: 5/2/2014 Date Modified: 5/2/2014 Date Printed: 9/15/2014

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

MATERIAL IDENTITY: RR Catalyst INFORMATION TELEPHONE: 920-645-6205

800-626-2464

COMPANY: EMERGENCY TELEPHONE:

Hydraulic Mudpumps, Inc 4803 Leonard Lane Manitowoc, WI 54220 CHEMTREC: 800-424-9300

## 2. HAZARDS IDENTIFICATION

## **EMERGENCY OVERVIEW**

# **OSHA HAZARDOUS**

Target Organ Effect: Highly toxic by inhalation, Toxic by ingestion, Skin sensitizer, Irritant

Target Organs: Gastrointestinal System, Skin, Eyes, Respiratory System, Liver, Nerves, and Kidneys

## GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Health		Environment	tal	Physical
Acute Toxicity, Oral	Category 3	Acute Aquatic Toxicity	Category 1	Not Classified
Acute Toxicity, Inhalation	Category 1			
Acute Toxicity, Dermal	Category 5	Chronic Aquatic	Category 3	
Skin Irritation	Category 2	Toxicity		
Eye Irritation	Category 2A	-		
Skin Sensitization	Category 1			

Pictogram:







## Signal Word Danger

	Hazard Statements	Precautionary Statements
H301	Toxic if swallowed	P260 Do not breathe dust/fume/gas/mist/vapours/spray.
H313	May be harmful in contact with skin	P271 Use only outdoors or in a well ventilated area.
H315	Causes skin irritation	P273 Avoid release to the environment.
H317	May cause an allergic skin reaction	P280 Wear protective gloves.
H319	Causes serious eye irritation	P284 Wear respiratory protection.
H330	Fatal if inhaled	P302 + P352 IF ON SKIN: Wash with plenty of soap
H400	Very toxic to aquatic life	and water.
H412	Harmful to aquatic life with long lasting	P304 + P340 IF INHALED: Remove victim to fresh air
	effects.	and keep at rest in a position for comfortable
		breathing.
		P305+P351 IF IN EYES: Rinse cautiously with water
		for several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing.
		P310 Immediately call POISON CENTER or
		doctor/physician.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Chemical Characterization:**

Ingredient(s)	CAS Number	% (by weight)
Dibutyltin dilaurate	77-58-7	45 - 55%
Dipropylene glycol	25265-71-8	30 - 40%
Triethylenediamine	280-57-9	15 - 25%

#### 4. FIRST AID MEASURE

**Eyes Contact:** Check for and remove any contact lenses. Immediately flush with large amounts of water and get prompt medical attention. Retract eyelids often. This material can be a severe eye irritant and can cause burns and blindness by contact. Chronic exposures to vapors can cause conjunctivitis and corneal edema. Corneal edema may give rise to perception of "blue haze" or fog around lights.

**Skin Contact:** Remove contaminated clothing and any residual chemical. Immediately flush with large amounts of water and get prompt medical attention. Contact of undiluted product with skin can cause severe irritation and pain. Prolonged exposure may result in chemical burns and permanent damage. Long term exposure can result in skin absorption effecting liver and digestive tract.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep person warm, quiet and get medical attention. Target organs include gastrointestinal system, liver, and kidney. If ingested, may cause severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and stomach, bleeding of the gastrointestinal tract and vomiting of blood.

**Inhalation**: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Inhalation can cause severe nose, throat, and lung irritation. Risk of serious damage to the lungs by inhalation. Obtain emergency medical attention immediately.

**Advice to physicians**: Treat symptomatically and supportively. Following exposure medical follow-up should be maintained for at least 48 hours. This material or its emissions may aggravate eye disease, skin disorders and allergies, asthma, kidney or liver disorders.

#### 5. FIRE FIGHTING MEASURES

## **Conditions of Flammability**

Slightly flammable in the presence of open flames, sparks, or static discharge.

#### Suitable extinguishing media

Use Water Spray, Alcohol resistant foam, Carbon Dioxide (CO2) Dry Chemical. Use water spray to cool unopened containers.

## **Hazardous Decomposition Products**

Acrid smoke-fumes, hydrocarbons, carbon monoxide, carbon dioxide, and tin oxide may be released during a fire involving this product.

### **Fire Fighting Instructions**

Wear self contained breathing apparatus (pressure-demand MSHA/NIOSH) approved or equivalent and protective clothing. See Section 10 for decomposition products. Runoff should be contained and not allowed to enter drains or water courses. Discharge to the environment must be avoided. Notify authorities if liquid enters sewer/public waters.

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## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions**

Spilled or released material may react with acids, bases and oxidizers. Eliminate all ignition sources and ventilate area. Wear protective equipment during clean up (See Section 8).

#### **Environmental Precautions**

Contain with appropriate inert materials such as (vermiculite, clay, or sand) to avoid environmental contamination. DO NOT allow spilled materials to enter sewers or waterways. Discharge to the environment must be avoided.

#### Methods and Materials for Containment and Cleaning Up

Spilled or released material may react with strong bases, acids oxidizers and amines. Eliminate all ignition sources and ventilate area. DO NOT allow spilled materials to enter sewers or waterways. Dike and recover large spill. Soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean up. Collect rinse water. Dispose/report per regulatory requirements.

#### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Keep away from direct sunlight and alkalis. Avoid breathing vapors or spray mists. Avoid contact with eyes, skin, and clothing.

### **Conditions for Safe Storage**

Keep container tightly closed and store in a cool, well ventilated area away from: heat, sparks, open flame, strong oxidizers and alkalis.

## **Decontamination procedures**

Follow standard plant procedures or supervisor's instructions for decontamination operations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **EXPOSURE LIMITS**

HAZARDOUS COMPONENT	PEL	STEL	TLV	Other
Dipropylene glycol	NE	NE	NE	NE
Dibutyltin dilaurate	$0.1 \text{ mg/m}^3$	$0.2 \text{mg/m}^3$	NE	NE
Triethylenediamine	NE	NE	NE	NE

#### **Engineering Controls**

Local exhaust ventilation may be required in addition to general room ventilation.

#### **Respiratory Protections**

Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended.

#### **Eve/Face Protection**

Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses should not be worn when handling this product.

#### **Skin and Body Protection**

When skin contact is possible, rubber or plastic protective clothing including apron, sleeves, boots head and face protection should be worn. Wear chemical resistant gloves such as nitrile rubber or Poly Vinyl Alcohol (PVA).

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#### Other hygienic practices

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### OTHER WORK PRACTICES

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid
Color Clear Straw
pH N/DA
Melting/Freezing Temperature N/DA

Boiling Point > 149 C/ 300 F Flash Point > 110 C/ 230 F Ignition Temperature N/DA

Autoignition Temperature

Autoignition Temperature

N/DA

Lower explosive limit; na

Upper explo

Lower explosive limit; na Upper explosive limit: na Vapor Pressure < 5 mm Hg 2 mmHg

Vapor Density (air=1) > 1

Specific Gravity (water=1 @39.2F) 1.03 @ 25C/77F

Percent Volatiles 33% Evaporation Rate (Bac=1) < 0.02

Odor Mild Ammonia like

Odor threshold N/Da

#### 10. STABILITY AND REACTIVITY

## **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

No data available.

## **Conditions to Avoid**

Avoid high temperatures and localized heat sources. Keep container tightly closed and store in a cool, well ventilated area away from: heat, sparks, open flame, strong oxidizers and alkalis.

## **Materials to Avoid**

Reactive or incompatible with: oxidizers, strong alkalis, acids, strong bases, and amines. Avoid exposure to moisture.

## **Hazardous Decomposition Products**

Acrid smoke-fumes, hydrocarbons, carbon monoxide, carbon dioxide, and tin oxide may be released during a fire involving this product

## 11. TOXICOLOGY INFORMATION

# **Toxicity**

#### **Acute Toxicity**

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**Skin Corrosion/Irritation** 

Skin Rabbit 24 h Severe Irritant Dibutyltin dilaurate

**Serious Eye Damage/Eye Irritation** 

Eye Rabbit 24 h Moderate eye Irritant Dibutyltin dilaurate

Respiratory

Respiratory Tract Irritant

## Respiratory or Skin Sensitization

Maximization Test - Guinea Pig - OECD Test Guideline 406 - May cause allergic skin reaction

## Mutagenicity

N/DA

# Carcinogenicity

IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product is present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### 12. ECOLOGICAL INFORMATION

# **Aquatic Ecotoxicity**

Very toxic to aquatic life

Triethylenediamine LC50 1,730 mg/l 96 h Pimephales promelas (fish)

Triethylenediamine EC50 92 mg/l 48 h Daphnia

#### **Chronic Toxicity**

No data available

#### **Biodegradability**

No data available

## Mobility in soil

No data available

### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristics definition of ignitability, corrosiveness, or reactivity and is not listed in 40CFR261.33. The toxicity characteristic (TC), has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

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#### 14. TRANSPORTATION INFORMATION

DOT (US)

UN Number: 1760 Class: 8 Packing Group: III

Proper Shipping Name: Corrosive Liquid, N.O.S., (dibutyltin dilaurate)

Marine Pollutant: YES

**IMDG** 

UN Number: 1760 Class: 8 Packing Group: III

Proper Shipping Name: Corrosive Liquid, N.O.S., (dibutyltin dilaurate)

Marine Pollutant: YES

**TDG** 

UN Number: 1760 Class: 8 Packing Group: III

Proper Shipping Name: Corrosive Liquid, N.O.S., (dibutyltin dilaurate)

Marine Pollutant: YES

#### 15. REGULATORY INFORMATION

## TSCA INVENTORY STATUS

All components are listed or exempt

#### **OSHA HAZARDS**

Highly toxic by inhalation, Toxic by ingestion, Skin sensitizer, Irritant

	<b>HMIS Classification</b>	NFPA Rating
Health Hazard;	3	3
Flammability	1	1
Physical Hazards	1	1

### SARA TITLE III: Section 311/312 Hazard Class

Acute Health Hazard, Chronic Health Hazard

# SARA TITLE III: Section 313 (40CFR370)

This product does not contain a chemical which is listed in Section 313 at or above the de minimus concentrations.

# **CERCLA Information (40CFR302.4)**

This material contains no hazardous or extremely hazardous substances at or above the de minimus concentrations as defined by CERCLA or SARA Title III, and release is therefore not reportable.

## Pennsylvania Right to Know Components

Dibutyltin dilaurate CAS No. 77-58-7

## **New Jersey Right to Know Components**

Dibutyltin dilaurate CAS No. 77-58-7

# California Proposition 65 Information:

This product contains, no listed substances known to the state of California to cause cancer and/or reproductive toxicity.

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#### 16. OTHER INFORMATION

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

\*Note – qualifiers and codes that may be used in this MSDS

EQ=Equal; AP= Approximately; LT= Less Than; GT = Greater Than; TR =Trace; UK = Unknown; N/AP = Not Applicable; N/P = No Applicable Information Found; N/DA = No Data Available; NE = Not Established