



## **Section 3 Hazards Identification (Continued)**

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### **B. Potential Health Effects**

#### **Acute Eye:**

Rated as Non-irritant [as determined by in-vitro testing]  
May cause slight redness and tearing in a selected portion of the population.

#### **Acute Skin:**

Rated as Non-irritant [as determined by in-vitro testing]  
Very low dermal toxicity anticipated. May cause slight irritation in a selected portion of the population.

#### **Acute Oral Toxicity:**

LD50  $\geq$  5 g/kg rat - (non toxic) [as determined by computer simulation]  
This product has not been tested on animals.

#### **Acute Inhalation:**

Not Likely  
Mists are unlikely to form, but may cause upper respiratory irritation.

#### **Chronic Effects:**

This product may contain trace quantities of residual ingredients designated by IARC, NTP, ACGIH, or OSHA as probable or suspected human carcinogens. See section two.

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## **Section 4 First Aid Measures**

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**Eye Exposure:** Hold eyelid open and flush with a steady gentle stream of water for at least 15 minutes.  
Seek medical attention in the event of an adverse reaction or if symptoms of irritation develops.

**Skin Exposure:** In case of prolonged contact, wash immediately with soap and water. Remove saturated clothing and shoes. Clean saturated clothing and shoes prior to re-use.  
Seek medical attention in the event of an adverse reaction or if symptoms of irritation develops.

**Inhalation Exposure:** Inhalation is not an expected route of exposure. If respiratory distress or irritation occurs, remove victim to fresh air.  
Seek medical attention in the event of an adverse reaction or if symptoms of irritation develops.

**Ingestion:** Adverse effects are not anticipated from the ingestion of this material, however the combined effects of this material when combined with other unknown materials cannot be reliably anticipated. If victim is conscious and alert, give 1-2 glasses of water. DO NOT give anything by mouth to an unconscious person. DO NOT induce vomiting. DO NOT leave victim unattended. Seek medical attention.

#### **Medical conditions that may be aggravated by exposure:**

Prolonged skin contact may aggravate existing skin conditions.

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## **Section 4 First Aid Measures (Continued)**

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### **Notes to Physician:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposures to materials other than this product may have occurred .

**Treat symptomatically. No specific antidotes are recommended.**

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## **Section 5 Fire Fighting Measures**

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### **FIRE HAZARD DATA:**

#### **Flash Point:**

> >93 C (225F) Flammability Class: Combustion is unlikely but will burn with sufficient heat.

#### **Method Used:**

Closed Cup

#### **Flammability Limits (vol/vol%):**

N/A

#### **Lower:**

No Data

#### **Upper:**

No Data

#### **Extinguishing Media:**

Recommended (small fires): Dry chemical, carbon dioxide. (Large fires): Universal foam, or water spray.

Not Recommended: Water jet (foaming is unlikely but possible)

#### **Special fire Fighting Procedures:**

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus, and full protective clothing.

#### **Unusual Fire Fighting Procedures:**

Product will burn under extreme fire conditions. Closed containers may explode (due to pressure build up) when exposed to extreme heat.

#### **Hazardous Decomposition Materials (Under Fire Conditions)**

Oxides of carbon

Oxides of nitrogen

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## **Section 6 Accidental Release Measures**

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### **Evacuation Procedures and Safety**

Wear appropriate protective equipment for the situation. See personal protective equipment: section 8.

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## **Section 6 Accidental Release Measures (Continued)**

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### **Containment, Cleanup, and Disposal of Spill**

Contain large spills with inert absorbent material. Sweep up and place in a closed container. Clean up residual material by washing area with hot water. Collect washings for disposal. Dispose of washings and contaminated sweepings in accordance with federal, state and/or local regulations as applicable.

### **Environmental and Regulatory Reporting:**

Do not flush to drains. Spills may be reportable to the National Response Center (800-424-8802). Additional reporting to state and/or local agencies is required in some areas.

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## **Section 7 Handling and Storage**

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### **Minimum/Maximum storage temperatures**

4 to 49 C ( 39 to 120 F)

### **Handling:**

Vapors and mists from this product are unlikely to form. Avoid direct or prolonged contact with skin and eyes. No adverse health hazards are anticipated from handling product which has been stored outside of the specified storage range, however the product may stratify and become unacceptable for general use.

### **Storage:**

Store in a dry well-ventilated area away from ignition sources and away from incompatible materials (see section 10) Expected shelf life if stored under optimum conditions: three years.)

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## **Section 8 Exposure Control/Personal Protection**

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### **Introductory Remarks:**

These recommendations provide general guidance for handling this product. Because specific use conditions may vary, safety procedures should be developed for each specific application. When developing procedures, always consider potential waste and disposal issues.

### **Exposure Guidelines:**

The following exposure guidelines have been set by OSHA

<u>Component</u>	<u>Cas Number</u>	<u>Established TWA</u>
Water and inerts	*****	N/A

## **Section 8 Exposure Control/Personal Protection (Continued)**

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### **Engineering Controls:**

In the event that use conditions dictate the potential for excessive exposure, engineering controls are indicated. Traditional engineering controls include dilution, ventilation, and others. The possibility that such controls will be required is considered remote under expected use parameters. Since all possible use parameters cannot be foreseen, the use of engineering controls to reduce worker exposure may be a requirement.

### **Respiratory Protection:**

For reasonable foreseeable uses of this product, respiratory protection should not be required. When respirators are required, select the approved NIOSH/MSHA equipment based on actual or potential airborne concentrations, and in accordance with the appropriate regulatory standards.

### **Eye and Face Protection:**

For reasonable foreseeable uses of this product, eye and face protection is not likely to be required, however the potential for eye contact with any substance should always be reduced. Eye protection in the form of ANSI Z87 approved safety glasses is recommended. Emergency eyewash stations are recommended.

### **Skin Protection:**

For reasonable foreseeable uses of this product, skin protection is not likely to be required, however prolonged contact with the product in an undiluted form should be avoided. Clothing and/or shoes which have been saturated with this product should be removed and cleaned promptly. Do not allow this product to dry on the skin. Wash exposed skin promptly.

### **Work Practice Controls:**

While individual uses may vary, the following general measures should be taken when working with any chemical materials:

1. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2. Wash hands before eating, drinking, using tobacco, or using the toilet.
3. Wash exposed skin promptly to remove accidental splashes or contact.

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## **Section 9 Physical and Chemical Properties**

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Physical and chemical properties presented here represent typical properties of this product. These ARE NOT specifications. For information regarding specifications, contact the information phone number listed in section 1.

**Physical Appearance:** Off-white viscous emulsion

**Odor:** Characteristic

**pH:** 3.75+-0.3

**Specific Gravity:** 1.002+-0.005

**Water Solubility:** Soluble

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## **Section 9 Physical and Chemical Properties (Continued)**

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**Melting Point Range: N/A**

**Freezing Point Range: N/D**

**Boiling Point Range: N/D**

**Vapor Pressure: N/D**

**Vapor Density: N/D**

**Percent Volatiles by Volume: N/D**

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## **Section 10 Stability and Reactivity**

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### **Chemical Stability:**

This material is stable under normal handling and storage conditions described in section 7.

### **Conditions to be Avoided:**

Heat  
Open Flame

### **Chemicals to be Avoided:**

Strong Acids  
Strong Bases  
Strong Oxidizing Agents  
Strong Reducing Agents

### **Types of products that might occur upon decomposition:**

Oxides of carbon  
Oxides of nitrogen

**Hazardous polymerization is:** not expected.

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## **Section 11 Toxicology**

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### **Acute Eye:**

Rated as Non-irritant [as determined by in-vitro testing- this product was not animal tested]

### **Acute Dermal:**

Rated as Non-irritant [as determined by in-vitro testing- this product was not animal tested]

### **Acute Oral Toxicity:**

Predicted LD50  $\geq 5$  g/kg rat - (non toxic) [as determined by computer model- this product was not animal tested]

### **Acute Respiratory:**

Not Likely [no data found for this product]

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## **Section 11 Toxicology (Continued)**

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**Chronic Effects:**

This product may contain trace quantities of residual ingredients designated by IARC, NTP, ACGIH, or OSHA as probable or suspected human carcinogens. See section two.

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## **Section 12 Ecological Information**

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**Ecotoxicological Information:**

No data found for this product

**Chemical Fate Information:**

No data found for this product

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## **Section 13 Disposal Information**

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**Waste Disposal Method(s):**

Chemical additions and possible combinations may make any disposal information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Be advised that state and local regulations governing disposal vary greatly, are subject to frequent change, and may differ substantially from federal requirements. Consult state and local regulations regarding proper disposal.

**EPA Hazardous Waste:** No

**EPA Waste Number:** N/A

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## **Section 14 Transportation Information**

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**Transportation Status:**

Be advised that the Transportation Classification Status listed within this MSDS is deemed accurate at the time of publication, based on current package sizes. MSDS updates occur on a scheduled basis, or when changes to the chemical composition of the product occur. MSDS updates ARE NOT driven by changes in DOT regulation, or changes in package size. Repackaging may change shipping status. Variations due to different available modes of transportation are not addressed. Please consult the appropriate regulations prior to shipping this or any material.

<u>Unit size</u>	<u>Case Quantity</u>	<u>US DOT Shipping Name</u>
8.5 oz	12 per case	NOT REGULATED
1.0 L	12 per case	NOT REGULATED

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## **Section 15 Regulatory Status**

The regulatory status of individual chemical constituents listed in section 2, and the product itself is detailed below. Consult the following key to determine regulatory status:

### **Key**

- Y = Is on the associated list, or inventory.**
- E = Is exempt from inclusion on the associated list or inventory.**
- N = Not determined or not on the associated list or inventory**

<u>Component</u>	<u>Cas Number</u>	<u>EPA</u>	<u>Proposition</u>	<u>WHIMS</u>	
		<u>List 4</u>	<u>SARA</u>	<u>65</u>	<u>Percent</u>
Water and inerts	*****	N	N	N	N

## **Section 16 Other Information**

**Abbreviations that may be used in this MSDS:**

- ACGIH** = American Conference of Governmental Industrial Hygienist
- OSHA** = Occupational Safety and Health Administration
- TLV** = Threshold Limit Value
- TWA** = Time Weighted Average
- PEL** = Permissible Exposure Limit
- STEL** = Short Term Exposure Limit
- NTP** = National Toxicology Program
- IARC** = International Agency for Research on Cancer
- N/D** = Not Determined
- N/A** = Not Available
- HMIS** = Hazardous Materials Identification System
- NFPA** = National Fire Protection Association

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## **Section 16 Other Information (continued)**

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**HMIS Rating:**

- 0 Health Hazard Rating (Minimal)
- 0 Flammability Rating (Minimal)
- 0 Reactivity Rating (Minimal)

**Revision Number: 0**

**Revision Reason: New Product**

**Disclaimer:** The information contained within this MSDS is deemed accurate at the time of publication, and is given in good faith. No warranty, expressed or implied is made. Nothing in this document constitutes a specification for any particular lot number of this product. Nothing in this document represents medical advice. Since use conditions can vary unforeseeably, an Industrial Health and Safety Professional should evaluate specific industrial use conditions.

**Document Approved by:** \_\_\_\_\_

**Date:** November 20, 1998

**Lon Kensek  
Director: Technical Services  
Tiro Industries, Inc.**