



Material Safety Data Sheet Date Revised: Feb, 2008

## **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name	EMKARATE RL 32-3MAF
Product Use	Lubricant
Address/Telephone number	Lubrizol
-	CPI Engineering Services, Inc
	2300 James Savage Rd.
	Midland, MI 48642
	Phone: 989-496-3780
	Fax: 989-496-0316
Emergency Telephone Numbers	USA – Chemtrec: 800-424-9300
	Europe – NCEC: +44 (0)208-762-8322
	All Others – Chemtrec: +1-703-527-3887

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	<b>% (w/w)</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
Polyol ester		>99	No PEL	No TLV
Additives		<1	established No PEL established	established No TLV established

Ingredients not precisely identified are proprietary or nonhazardous.

Values are not product specifications.

## 3. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Color Form Odor Clear & yellow Liquid No data.

INHALATION OR INGESTION MAY CAUSE MUCOUS MEMBRANE IRRITATION.

MAY CAUSE EYE IRRITATION

Material Safety Data Sheet Date Revised: Feb, 2008

#### REPEATED/PROLONGED CONTACT MAY CAUSE SKIN IRRITATION.

Routes of Exposure: Eye contact, Skin contact, Inhalation

Eye contact Skin contact	May cause eye irritation in man. Short contact periods with human skin are not usually associated with skin irritation. Repeated contact can result in slight skin irritation. Prolonged contact can result in slight skin irritation. Systemically toxic concentrations of this product will probably not be absorbed through human skin.
Inhalation	High concentrations of mists or aerosols may irritate respiratory passages. No toxic effects are known to be associated with inhalation of this material.
Ingestion	In humans, irritation of the mouth, pharynx and esophagus can develop following ingestion of this product. No toxic effects are expected following ingestion of this product.
Other	Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

Eye contact	Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.
Skin contact	Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention.
Inhalation	Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.
Ingestion	DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

# 5. FIRE-FIGHTING MEASURES

Flash Point ( <sup>o</sup> F)
Flash Point (ºC)
Autoignition Temperature (°F)
Autoignition Temperature (°C)
Flammable Limits

4. FIRST AID MEASURES

>392 >200 No data. No data. No data.

Material Safety Data Sheet Date Revised: Feb, 2008

Extinguishing Media	Water fog, alcohol foam, carbon dioxide, dry chemical.
Special fire-fighting protective equipment	A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.
Fire and explosion hazards	None known.
Explosion data	
Sensitivity to mechanical impact	No data.
Sensitivity to static discharge	No data.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Refer to section 8 for proper personal protective equipment.
Steps to be taken in case material is released or spilled	Contain spill. Soak up material with absorbent and shovel into a chemical waste container. Wash residue from spill area with water containing detergent and flush to a sewer serviced by a permitted wastewater treatment facility.

## 7. HANDLING AND STORAGE

Handling

Storage

Prevent eye contact. Prevent skin contact. Avoid breathing this material. Do not swallow. 50-70°F. Store in original containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

OSHA PEL Component Name No OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice.	Exposure limits	Notes
ACGIH TLV Component Name No ACGIH TLV assigned. Minimize exposure in accordance with good hygiene practice.	Exposure limits	Notes
Engineering controls Eye protection Protective clothing Respiratory protection	Provide adequate ventila Chemical tight goggles. Impervious gloves. Respiratory protection is controls are adequate.	

Material Safety Data Sheet Date Revised: Feb, 2008

#### Other

Eyewash and safety shower easily accessible to the work area.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Color Form Odor pН Boiling Point (°F) Boiling Point (°C) Flash Point (°F) Flash Point (°C) Autoignition Temperature (°F) Autoignition Temperature (°C) Flammable Limits **Explosive Properties Oxidizing Properties** Specific Gravity Solubility (water) Solubility (other) **Partition Coefficient** 

Clear & yellow Liquid No data. No data. No data. No data. >392 >200 No data. No data. No data. No data. No data. ~1 Insoluble No data. No data.

## **10. STABILITY AND REACTIVITY**

Stability Materials to avoid Conditions to avoid Hazardous decomposition products Hazardous polymerization Stable under normal conditions. Strong oxidizing agents. None known. Carbon dioxide, carbon monoxide. Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

No data available on this material.

Toxicologically synergistic products None known.

# 12. ECOLOGICAL INFORMATION

No data is available on this product.

## **13. DISPOSAL CONSIDERATIONS**

RCRA (Resource Conservation and Recovery Act) Classification:Specifically ListedNot applicable.WastesIgnitabilityCharacteristic WastesIgnitability

Material Safety Data Sheet Date Revised: Feb, 2008

	Corrosivity Reactivity Toxicity	Not applicable. Not applicable. Not applicable.
Disposal method	•	Disposal should be in accordance with local, state or national legislation.
Container disposal		Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

### **14. TRANSPORT INFORMATION**

Department of Transportation: Not regulated.

TDG (Transportation of Dangerous Goods): Not regulated.

Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA-DGR.

### **15. REGULATORY INFORMATION**

**Inventory Status** 

USA (TSCA) Compliant. **OSHA Hazard Communication Standard,** 29 CFR 1910.1200, Hazard Summary: **Health Hazards** None **Physical Hazards** None **WHMIS Classification** Noncontrolled (Nonhazardous) **CERCLA and SARA Regulations (40 CFR** 355, 370, and 372): This material contains the following No 313-listed chemicals subject to the reporting chemicals in this requirements of SARA 313: product SARA 311/312 Hazard Categories: Immediate Ν Delayed Ν Fire Ν Pressure Ν Reactivity Ν

Material Safety Data Sheet Date Revised: Feb, 2008

## **16. OTHER INFORMATION**

We assigned NFPA ratings and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

HMIS Information	
Health	1
Flammability	1
Physical Hazards	0

The HMIS ratings displayed above are from the HMIS III Third Edition. There have been significant changes made to the system. "Physical hazard" stands for physical hazard as defined in the OSHA Hazard Communication Standard and replaces the former code for reactivity. For a more detailed explanation of the system and the ratings, please contact our Product Safety and Regulatory Affairs group.

NFPA Information	
Health	1
Flammability	1
Instability	0

This information is intended solely for the use of individuals trained in the particular hazard rating system.

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of The Lubrizol Corporation's knowledge; however, The Lubrizol Corporation makes no warranty whatsoever, expressed or implied of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from use thereof. The Lubrizol Corporation assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

Emkarate<sup>®</sup> is a registered trademark of The Lubrizol Corporation.