



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	% (w/w)	OSHA PEL	ACGIH TLV
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

ColorClear & yellowFormLiquidOdorNo data.

INHALATION OR INGESTION MAY CAUSE MUCOUS MEMBRANE IRRITATION.

MAY CAUSE EYE IRRITATION

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REPEATED/PROLONGED CONTACT MAY CAUSE SKIN IRRITATION.

Routes of Exposure: Eye contact, Skin contact, Inhalation

Eye contact May cause eye irritation in man.

Skin contact 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.

4. FIRST AID MEASURES

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 (°F) >392
Flash Point (°C) >200
Autoignition Temperature (°F) No data.
Autoignition Temperature (°C) No data.
Flammable Limits No data.

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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 Prevent eye contact. Prevent skin contact. Avoid

breathing this material. Do not swallow.

Storage 50-70°F. Store in original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

OSHA PEL

Component Name Exposure limits Notes

No OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice.

ACGIH TLV

Component Name Exposure limits Notes

No ACGIH TLV assigned. Minimize exposure in accordance with good hygiene

practice.

Engineering controlsProvide adequate ventilation.Eye protectionChemical tight goggles.Protective clothingImpervious gloves.

Respiratory protection Respiratory protection is not normally needed if

controls are adequate.

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Other Eyewash and safety shower easily accessible to

the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color Clear & yellow

Liquid **Form** Odor No data. No data. рН Boiling Point (°F) No data. Boiling Point (°C) No data. Flash Point (°F) >392 Flash Point (°C) >200 Autoignition Temperature (°F) No data. Autoignition Temperature (°C) No data. Flammable Limits No data. **Explosive Properties** No data. **Oxidizing Properties** No data. Specific Gravity ~1 Solubility (water) Insoluble Solubility (other) No data. **Partition Coefficient** No data.

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Materials to avoid Strong oxidizing agents.

Conditions to avoid None known.

Hazardous decomposition productsCarbon dioxide, carbon monoxide.

Hazardous polymerization 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 Listed Not applicable.

Wastes

Characteristic Wastes Ignitability Not applicable.

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CorrosivityNot applicable.ReactivityNot applicable.ToxicityNot applicable.

Disposal methodDisposal 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 chemicals subject to the reporting chemicals in this

requirements of SARA 313: product

SARA 311/312 Hazard Categories:

ImmediateNDelayedNFireNPressureNReactivityN

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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.

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