

# SAFETY DATA SHEET

## 1. Identification

### Identification

**Product name:** EMKARATE(TM) RL 68H

### Additional identification

**Chemical name:** Mixture

### Recommended use and restriction on use

**Recommended use:** Not determined.

**Restrictions on use:** Not determined.

### Details of the supplier of the safety data sheet

#### Supplier

**Company Name:** CPI FLUID ENGINEERING  
A DIV. OF THE LUBRIZOL CORPORATION  
**Address:** 2300 JAMES SAVAGE ROAD  
MIDLAND, MI 48642  
US  
**Telephone:** 989-496-3780

### Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300 (LUBRIZOL)

## 2. Hazard(s) identification

### Hazard Classification

Not classified

### Label Elements:

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** not applicable

**Precautionary Statement:** not applicable

**Other hazards which do not result in GHS classification:** None identified.

## 3. Composition/information on ingredients

**General information:** The components are not hazardous or are below required disclosure limits.

## 4. First-aid measures

**Ingestion:** Treat symptomatically. Get medical attention.

<b>Inhalation:</b>	Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If experiencing respiratory symptoms call a poison center or doctor.
<b>Skin Contact:</b>	Wash with soap and water. If skin irritation occurs, get medical attention. Remove contaminated clothing. Launder contaminated clothing before reuse.
<b>Eye contact:</b>	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** See section 11.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically.

**5. Fire-fighting measures**

**General Fire Hazards:** Use water to cool containers exposed to fire.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** CO<sub>2</sub>, dry chemical, foam, water spray, water fog.

**Unsuitable extinguishing media:** Not determined.

**Specific hazards arising from the chemical:** See section 10 for additional information. Water may cause splattering. Container may rupture on heating. Burning may produce irritating, toxic and obnoxious fumes.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Recommend wearing self-contained breathing apparatus.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Only trained personnel should be permitted in area. Caution: Contaminated surfaces may be slippery.

**Methods and material for containment and cleaning up:** Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

**Environmental Precautions:** Avoid release to the environment. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

<b>Precautions for safe handling:</b>	Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Keep containers closed when not in use. Avoid eye contact. Avoid repeated or prolonged skin contact. When using do not eat, drink or smoke. Product can accumulate static charge when handled. Equipment should be grounded. Use grounding and bonding connection when transferring material. Use spark-proof tools and explosion-proof equipment. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.
<b>Maximum Handling Temperature:</b>	Not determined.
<b>Conditions for safe storage, including any incompatibilities:</b>	Store away from incompatible materials. See section 10 for incompatible materials. Store away from oxidizers. Keep container tightly closed. Do not store in open, unlabeled or mislabeled containers.
<b>Maximum Storage Temperature:</b>	Not determined.

## 8. Exposure controls/personal protection

### Control Parameters:

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

### Appropriate engineering controls:

Use material in well ventilated area only. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation or local exhaust ventilation may be required.

### Individual protection measures, such as personal protective equipment

#### General information:

Use personal protective equipment as required.

#### Eye/face protection:

If contact is likely, safety glasses with side shields are recommended.

#### Skin Protection

##### Hand Protection:

Neoprene. Consult clothing/glove manufacturer to determine appropriate type of glove for given situation. Gloves should always be inspected before each use and discarded if they show tears, pinholes, or signs of wear. Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves.

**Other:** Long sleeve shirt is recommended. Do not wear rings, watches or similar apparel that could entrap the material.

**Respiratory Protection:** Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Use respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Colorless to yellow
<b>Odor:</b>	Mild
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	518 °F (270 °C) (Cleveland Open Cup)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	0.977 68 °F (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Slightly Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Approximate 72.3 mm <sup>2</sup> /s ( 162.1 °F (72.3 °C) ) Approximate 9.8 mm <sup>2</sup> /s (100 °C (212 °F) )

### Other information

**Pour Point Temperature:** Approximate -38 °F (-39 °C)

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Do not expose to excessive heat, ignition sources, or oxidizing materials.
<b>Incompatible Materials:</b>	Strong oxidizing agents. Strong acids. Strong bases.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity

##### Oral

Product: LD 50 (Rat): > 2,000 mg/kg (Read across) Not classified

##### Dermal

Product: LD 50 (Rabbit): > 2,000 mg/kg (Read across) Not classified

##### Inhalation

Product: Not classified for acute toxicity based on available data.

##### Skin Corrosion/Irritation:

Product: Classification: May cause irritation. (Read across); Rabbit.  
Remarks: Not classified as a primary skin irritant.  
Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

##### Serious Eye Damage/Eye Irritation:

Product: Classification: May cause irritation. (Read across); Rabbit.  
Remarks: Not classified as a primary eye irritant.

##### Respiratory sensitization:

No data available

##### Skin sensitization:

Product: Classification: Not a skin sensitizer. (Read across) Not a skin sensitizer.

##### Specific Target Organ Toxicity - Single Exposure:

**Product:** If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

**Aspiration Hazard:** No data available

**Chronic Effects**

**Carcinogenicity:** No data available

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Germ Cell Mutagenicity:** No data available

**Reproductive toxicity:** No data available

**Specific Target Organ Toxicity - Repeated Exposure:** No data available

**12. Ecological information**

**Ecotoxicity**

**Fish**

**Product:** LC 50 (Fathead Minnow, 4 d): > 10,000 mg/l

**Aquatic Invertebrates**

**Product:** EC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l

**Toxicity to Aquatic Plants**

**Product:** EC 50 (Green algae (Selenastrum capricornutum), 4 d): > 1,000 mg/l

**Toxicity to soil dwelling organisms**

No data available

**Sediment Toxicity**

No data available

**Toxicity to Terrestrial Plants**

No data available

**Toxicity to Above-Ground Organisms**

No data available

**Toxicity to microorganisms**

Product: EC 50 (Sludge, 0.1 d): > 10,000 mg/l

**Persistence and Degradability**

**Biodegradation**

Product: OECD TG 302 B, 35 %, 28 d, Not readily degradable.

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)**

No data available

**Partition Coefficient n-octanol / water (log Kow)**

No data available

**Mobility:**

No data available

**Other Adverse Effects:**

No data available.

**13. Disposal considerations**

**Disposal instructions:**

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Contaminated Packaging:**

Container packaging may exhibit hazards.

**14. Transport information**

**DOT**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.

**15. Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

None known.

**SARA 302 Extremely Hazardous Substance**  
**SARA 304 Emergency Release Notification**  
**SARA 311/312 Hazardous Chemical**  
**SARA 313 (TRI Reporting)**

This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization Act (SARA). For additional information please contact Lubrizol Customer Assistance: America(s): AmerLZAMCustomerAssistance@Lubrizol.com ; Europe: EMEAICustomerAssistance@Lubrizol.com ; Asia: APCustomerAssistance@Lubrizol.com

## **US State Regulations**

### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

## **Inventory Status**

### **Australia (AICS)**

All components are in compliance with chemical notification requirements in Australia.

### **Canada (DSL/NDSL)**

All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

### **China (IECSC)**

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

### **European Union (REACH)**

To obtain information on the REACH compliance status of this product, please visit [Lubrizol.com/REACH](http://Lubrizol.com/REACH), or e-mail us at [REACH\\_MSDS\\_INQUIRIES@Lubrizol.com](mailto:REACH_MSDS_INQUIRIES@Lubrizol.com)

### **Japan (ENCS)**

All components are in compliance with the Chemical Substances Control Law of Japan.

### **Korea (ECL)**

All components are in compliance in Korea.

### **New Zealand (NZIoC)**

All components are in compliance with chemical notification requirements in New Zealand.

### **Philippines (PICCS)**

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

### **Switzerland (SWISS)**

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

### **Taiwan (TCSCA)**

All components of this product are listed on the Taiwan inventory.

### **United States (TSCA)**

All components of this material are on the US TSCA Inventory.

*The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.*



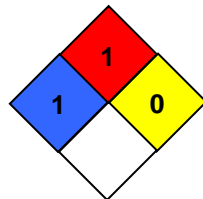
**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

<b>Health</b>	1
<b>Flammability</b>	1
<b>Physical Hazards</b>	0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**NFPA Hazard ID**



	Flammability
	Health
	Reactivity
	Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 03/08/2015  
**Version #:** 1.0  
**Source of information:** Internal company data and other publically available resources.  
**Further Information:** Contact supplier (see Section 1)  
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