

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 Product identifier

Product name:

# EMKARATE(TM) RL 22H

 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses:
 Not determined.

 Uses advised against:
 Not determined.

### 1.3 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                       |
| E-mail contact: |                                    |

### 1.4 Emergency telephone number:

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

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

This product does not meet the classification requirements of the current European legislation.

Classification according to Regulation (EC) No 1272/2008 as amended. Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC as amended. Not classified

### 2.2 Label elements according to Regulation (EC) No 1272/2008 as amended

not applicable

**2.3 Other hazards:** None identified.

# **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### Regulation No. 1272/2008.

This material has no known hazards under applicable laws.

### Directive 67/548/EEC.

This material has no known hazards under applicable laws.

### **SECTION 4: First aid measures**



## 4.1 Description of first aid measures

| Inhalation:  | Remove exposed person to fresh air if adverse effects are observed.  |  |
|--|--|--|
| Eye contact:   | Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.  |  |
| Skin Contact:  | Wash with soap and water. If skin irritation occurs, get medical attention.  |  |
| Ingestion:   | Do NOT induce vomiting. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. If vomiting occurs naturally, the casualty should lean forward to reduce the risk of aspiration. |  |
| 4.2 Most important symptoms<br>and effects, both acute and<br>delayed:         | See section 11.  |  |
| 4.3 Indication of any immediate medical attention and special treatment needed |  |  |
| Hazards:   | No data available.   |  |

Treatment: Treat symptomatically.

# SECTION 5: Firefighting measures

|   | General Fire Hazards:   | No unusual fire or explosion hazards noted.  |
|---|---|--|
| 5.1 Extinguishing media<br>Suitable extinguishing<br>media: |   | CO2, dry chemical, foam, water spray, water fog.   |
|   | Unsuitable extinguishing media:                                 | Do not use water jet as an extinguisher, as this will spread the fire.   |
| 5.2   | Special hazards arising<br>from the substance or<br>mixture:    | A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information. |
| 5.3   | Advice for firefighters<br>Special fire fighting<br>procedures: | No data available.   |
|   | Special protective equipment for fire-fighters:                 | Recommend wearing self-contained breathing apparatus.  |

# SECTION 6: Accidental release measures

| 6.1 Personal precautions,<br>protective equipment and<br>emergency procedures: | Personal Protective Equipment must be worn, see Personal Protection<br>Section for PPE recommendations.   |
|--|---|
| 6.2 Environmental<br>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. |
| 6.3 Methods and material for<br>containment and cleaning<br>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.                               |



| 6.4 Reference to other | See sections 8 and 13 for additional information. |
|------------------------|---|
| sections:              |   |

| SECTION 7: Handling and storage:                                  |   |  |
|---|---|--|
| 7.1 Precautions for safe handling:                                | Observe good industrial hygiene practices. Provide adequate ventilation.<br>Wear appropriate personal protective equipment. |  |
| Maximum Handling<br>Temperature:                                  | Not determined.   |  |
| 7.2 Conditions for safe storage, including any incompatibilities: | Store away from incompatible materials. See section 10 for incompatible materials.  |  |
| Maximum Storage<br>Temperature:                                   | Not determined.   |  |
| 7.3 Specific end use(s):  | End uses are listed in an attached exposure scenario when one is required.  |  |

# SECTION 8: Exposure controls/personal protection

# 8.1 Control Parameters

### **Occupational Exposure Limits**

None of the components have assigned exposure limits.

### 8.2 Exposure controls

| Appropriate engineering controls:                                     | No special requirements under ordinary conditions of use and with adequate ventilation.   |  |
|---|---|--|
| 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. Suitable gloves can be recommended by the glove supplier.   |  |
| Other:  | No data available.  |  |
| Respiratory Protection:   | Use respirator with an organic vapor cartridge if exposure limit is<br>exceeded. Consult with an industrial hygienist to determine the appropriate<br>respiratory protection for your specific use of this material. A respiratory<br>protection program compliant with all applicable regulations must be<br>followed whenever workplace conditions require the use of a respirator. |  |
| Hygiene measures:   | Always observe good personal hygiene measures, such as washing after<br>handling the material and before eating, drinking, and/or smoking. Routinely<br>wash work clothing to remove contaminants. Discard contaminated<br>footwear that cannot be cleaned.   |  |
| Environmental<br>Controls:  | No data available.<br>See section 6 for details.  |  |



# **SECTION 9: Physical and chemical properties**

| nformation on basic physical and chemic<br>Appearance |   |
|---|---|
| Physical state:                                       | liquid                                  |
| Form:   | liquid                                  |
| Color:  | Light yellow                            |
| Odor:   | Mild                                    |
| Odor Threshold:                                       | No data available.                      |
| pH:   | No data available.                      |
| Freezing point:                                       | No data available.                      |
| Boiling Point:  | > 250 °C                                |
| Flash Point:  | 240 °C (Cleveland Open Cup)             |
| Evaporation Rate:                                     | No data available.                      |
| Flammability (solid, gas):                            | No data available.                      |
| Upper/lower limit on flammability or explo            | osive limits                            |
| Flammability Limit - Upper (%):                       | No data available.                      |
| Flammability Limit - Lower (%):                       | No data available.                      |
| Vapor pressure:                                       | 0.1 torr (20 °C)                        |
| Vapor density (air=1):                                | No data available.                      |
| Relative density:                                     | 0.995 (20 °C)                           |
| Solubility(ies)                                       |   |
| Solubility in Water:                                  | Insoluble in water                      |
| Solubility (other):                                   | No data available.                      |
| Partition coefficient (n-octanol/water):              | No data available.                      |
| Autoignition Temperature:                             | Approximate 390 °C                      |
| Decomposition Temperature:                            | No data available.                      |
| Viscosity:  | 18.9 mm2/s (40 °C); 4.2 mm2/s (100 °C ) |
| Explosive properties:                                 | No data available.                      |
| Oxidizing properties:                                 | No data available.                      |
| VOC Content:  | No data available.                      |
| Other information                                     |   |
| Pour Point Temperature:                               | -52 °C                                  |
|   |   |

# SECTION 10: Stability and reactivity

| 10.1 Reactivity:                          | No data available.  |
|---|---|
| 10.2 Chemical Stability:                  | Material is stable under normal conditions.   |
| 10.3 Possibility of Hazardous Reactions:  | Will not occur.   |
| 10.4 Conditions to Avoid:                 | None known.   |
| 10.5 Incompatible Materials:              | Strong acids. Oxidizing agents. Strong bases.   |
| 10.6 Hazardous<br>Decomposition Products: | Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion. |



# SECTION 11: Toxicological information

| Information on likely routes of exposure<br>Inhalation: No data available. |  |  |
|--|--|--|
| Ingestion:   | No data available.   |  |
| Skin Contact:  | No data available.   |  |
| Eye contact:   | No data available.   |  |
| 11.1 Information on toxicologica<br>Acute toxicity<br>Oral                 | al effects   |  |
| Product:   | Not classified for acute toxicity based on available data.   |  |
| <b>Dermal</b><br>Product:  | Not classified for acute toxicity based on available data.   |  |
| Inhalation<br>Product:   | Not classified for acute toxicity based on available data.   |  |
| Skin Corrosion/Irritation:<br>Product:                                     | Prolonged or repeated contact may cause irritation.<br>Remarks: Not classified as a primary skin irritant. |  |
| Serious Eye Damage/Eye I<br>Product:                                       | Irritation:<br>Remarks: Not classified as a primary eye irritant.  |  |
| Respiratory sensitization:   | No data available  |  |
| Skin sensitization:  | No data available  |  |
| Specific Target Organ Tox  | t <b>icity - Single Exposure:</b><br>No data available   |  |
| Aspiration Hazard:   | No data available  |  |
| Chronic Effects<br>Carcinogenicity:  | No data available  |  |
| Germ Cell Mutagenicity:  | No data available  |  |
| Reproductive toxicity:   | No data available  |  |
| Specific Target Organ To   | xicity - Repeated Exposure:<br>No data available   |  |



# SECTION 12: Ecological information

| 12.1 Ecotoxicity<br>Fish               |  |
|--|--|
|  | No data available                                    |
| Aquatic Invertebrates                  | No data available                                    |
| Toxicity to Aquatic Plants             | No data available                                    |
| Toxicity to soil dwelling organism     | s<br>No data available                               |
| Sediment Toxicity                      | No data available                                    |
| Toxicity to Terrestrial Plants         | No data available                                    |
| Toxicity to Above-Ground Organis       | sms<br>No data available                             |
| Toxicity to microorganisms             | No data available                                    |
| 12.2 Persistence and Degradability     |  |
| Biodegradation<br>Product:             | Carbon dioxide generation 76 % (28 d, OECD TG 301 B) |
| BOD/COD Ratio                          | No data available                                    |
| 12.3 Bioaccumulative Potential         |  |
| Bioconcentration Factor (BCF)          | No data available                                    |
| Partition Coefficient n-octanol / wa   | ater (log Kow)<br>No data available                  |
| 12.4 Mobility:                         | No data available                                    |
| 12.5 Results of PBT and vPvB assessmer | nt<br>No data available                              |
| 12.6 Other Adverse Effects:            | No data available.                                   |



# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

| Disposal methods: | 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.

### **SECTION 14: Transport information**

#### ADR

Not regulated.

### IMDG

Not regulated.

### ΙΑΤΑ

Not regulated.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable.

For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

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.

### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.:

### **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, or e-mail us at 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.

**15.2 Chemical safety** No Chemical Safety Assessment has been carried out. **assessment:** 

### **SECTION 16: Other information**

Key literature references and Internal company data and other publically available resources. sources for data:

### Wording of the R-phrases and H-statements in section 2 and 3: none

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