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# **SAFETY DATA SHEET**

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

1.1 Product identifier

Product name: EMKARATE(TM) RL 32H

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**



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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:** Treat symptomatically. Get medical attention. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and

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

Suitable extinguishing

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 from the substance or

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

Special fire fighting

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, protective equipment and emergency procedures:

Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations.

6.2 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.

6.3 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.

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sections:

6.4 Reference to other

See sections 8 and 13 for additional information.



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## **SECTION 7: Handling and storage:**

7.1 Precautions for safe

handling:

Observe good industrial hygiene practices. Provide adequate ventilation.

Wear appropriate personal protective equipment.

**Maximum Handling** 

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** 

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:** Suitable gloves can be recommended by the glove supplier.

Other: No data available.

**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.

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.

**Environmental** 

Controls:

No data available.

See section 6 for details.



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

9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid

Color: Colorless to yellow

Odor: Mild

Odor Threshold:No data available.pH:No data available.Freezing point:No data available.Boiling Point:No data available.

Flash Point: 270 °C (Tagliabue Open Cup)

Evaporation Rate: No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability Limit - Upper (%):

Flammability Limit - Lower (%):

Vapor pressure:

Vapor density (air=1):

Relative density:

No data available.

Solubility(ies)

Solubility in Water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
Autoignition Temperature:
No data available.
Decomposition Temperature:
No data available.

**Viscosity:** 33.7 mm2/s (40 °C); 5.9 mm2/s (100 °C)

Explosive properties:

Oxidizing properties:

No data available.

VOC Content:

No data available.

Other information

Pour Point Temperature: Approximate -46 °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:** Do not expose to excessive heat, ignition sources, or oxidizing materials.

**10.5 Incompatible Materials:** None known, avoid contact with reactive chemicals.

**10.6 Hazardous**Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.



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## **SECTION 11: Toxicological information**

Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

## 11.1 Information on toxicological effects

**Acute toxicity** 

Oral

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

Ingestion of this material may cause gastric disturbances.

**Dermal** 

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

Inhalation

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

Skin Corrosion/Irritation:

Product: Not classified as a primary skin irritant.

Remarks: 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: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization:

No data available

Skin sensitization:

No data available

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

**Germ Cell Mutagenicity:** 

No data available

Reproductive toxicity:

No data available



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## **Specific Target Organ Toxicity - Repeated Exposure:**

No data available

## **SECTION 12: Ecological information**

12.1 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

12.2 Persistence and Degradability

Biodegradation

Product: Carbon dioxide generation 63.1 % (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 / water (log Kow)

No data available

12.4 Mobility:

No data available

12.5 Results of PBT and vPvB assessment

No data available

**12.6 Other Adverse Effects:** No data available.



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## **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.

#### IATA

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.



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## 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 assessment:

No Chemical Safety Assessment has been carried out.

## **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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