



Prepared according to Commission Regulation (EU) No 453/2010.

<b>Section 1</b>	<b>Identification of substance/mixture and of the company/undertaking</b>
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**1.1 Product Identifier****EMKARATE(TM) RL 32-3MAF**

Synonyms None.

**1.2 Relevant identified uses of the substance or mixture and (uses advised against)****Relevant identified uses (see section 7.3 for information on REACH registered uses)**

Refrigeration Lubricants.

**1.3 Details of the supplier of the safety data sheet**

CPI Fluid Engineering  
 2300 James Savage Rd.  
 Midland, MI 48642  
 Phone: 989-496-3780  
 Fax: 989-496-0316

**E-mail contact** EUSDS@lubrizol.com (Lubrizol Safety Data Sheets can be obtained at www.mylubrizol.com)**1.4 Emergency Telephone number**

FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)

<b>Section 2</b>	<b>Hazards Identification</b>
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**2.1 Classification of the substance or mixture****(EC) No 1272/2008**

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

**67/548/EC or 1999/45/EC**

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

**For a full text of R- and H- phrases: See section 16****2.2 Label elements****(EC) No 1272/2008**

Not applicable.

**Supplemental label information**

None.

**2.3 Other hazards**

None identified.

<b>Section 3</b>	<b>Composition/Information on Ingredients</b>
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**3.2 Mixtures****(EC) No 1272/2008**

This material contains no ingredients requiring disclosure under regulatory hazard criteria for this jurisdiction. See Section 11 for additional details.

**67/548/EC or 1999/45/EC**

This material has no known hazards under applicable laws.

*600, 700, 800 and 900 ECHA List Numbers do not have any legal significance; rather they are purely technical identifiers and are displayed for informational purposes only.*

<b>Section 4</b>	<b>First Aid Measures</b>
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**4.1 Description of first aid measures**

Skin

Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

#### Eyes

Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.

#### Inhaled

Remove exposed person to fresh air if adverse effects are observed.

#### Swallowed

DO NOT INDUCE VOMITING. Get immediate medical attention.

#### Advice for first-aid providers

When providing first aid always protect yourself against exposure to chemicals or blood born diseases by wearing gloves, masks and eye protection. After providing first aid wash your exposed skin with soap and water.

### 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

Note to physician: Treat symptomatically.

<b>Section 5</b>	<b>Fire Fighting Measures</b>
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#### 5.1 Extinguishing Media

CO<sub>2</sub>, dry chemical, foam, water spray, water fog.

#### 5.2 Special hazards arising from substance or mixture

Keep material away from heat, sparks, pilot lights, static electricity and open flame. See section 10 for additional information.

#### 5.3 Advice for firefighters

Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Do not use a water jet. Use water to cool containers exposed to fire.

<b>Section 6</b>	<b>Accidental Release Measures</b>
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#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal protective equipment must be worn. Ventilate area if spilled in a confined space or other poorly ventilated area.

#### 6.2 Environmental precautions

Prevent entry into sewers and waterways.

#### 6.3 Methods and material for containment and cleaning up

Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

#### 6.4 Reference to other sections

See sections 8 and 13 for additional information.

<b>Section 7</b>	<b>Handling and Storage</b>
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#### 7.1 Precautions for safe handling

Keep away from potential sources of ignition. Keep containers closed when not in use. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

##### Pumping Temperature

Not determined.

##### Maximum Handling Temperature

Not determined.

##### Maximum Loading Temperature

Not determined.

#### 7.2 Conditions for safe storage, including any incompatibilities

Do not store near potential sources of ignition. Store in a cool, dry, well-ventilated area. Keep container tightly closed. Keep only in original container. 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.

<b>Section 8</b>	<b>Exposure Controls/Personal Protection</b>
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### 8.1 Control parameters

None known.

#### Other Exposure Limits

Contains synthetic base stock. Under conditions which may generate mists, observe the suggested PEL of 5 mg/m<sup>3</sup> and STEL of 10 mg/m<sup>3</sup>.

### 8.2 Exposure controls

Use with adequate ventilation.

#### Eye/face protection

Safety Glasses.

#### Skin protection

Neoprene.

Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Launder contaminated clothing before reuse.

#### Respiratory Protection

Use respirator with an organic vapor cartridge if 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

Wash thoroughly after handling this product.

#### Environmental exposure controls

See section 6 for details.

<b>Section 9</b>	<b>Physical and Chemical Properties</b>
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### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Clear to yellow liquid.
<b>Odour</b>	Mild
<b>Odour Threshold</b>	Not determined.
<b>pH</b>	Not determined.
<b>Melting / Freezing Point</b>	Not determined.
<b>Boiling Point</b>	Not determined.
<b>Boiling Point Range</b>	Not determined.
<b>Flash Point</b>	240 °C, 464 °F COC (Typical)
<b>Evaporation Rate</b>	Not determined.
<b>Flammability (solid,gas)</b>	Not applicable.
<b>Lower flammability or explosive limit</b>	Not determined.
<b>Upper flammability or explosive limit</b>	Not determined.
<b>Vapour Pressure</b>	Not determined.
<b>Vapour Density</b>	Not determined.
<b>Relative density</b>	0.98 (20 °C)
<b>Bulk Density</b>	Not determined.
<b>Water Solubility</b>	Slightly soluble.
<b>Other solubilities</b>	Not determined.
<b>Partition coefficient: n-octanol/water</b>	Not determined.
<b>Autoignition Point</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	31.2 Centistokes (40 °C) 5.6 Centistokes (100 °C)
<b>Explosive properties</b>	Material does not have explosive properties.
<b>Oxidising properties</b>	Material is a non-oxidising substance.

### 9.2 Other information

**Pour Point  
Temperature**                    -56 °C, -69 °F

*The above data are typical values and do not constitute a specification.*

<b>Section 10</b>	<b>Stability and Reactivity</b>
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#### 10.1 Reactivity

Carefully review all information provided in sections 10.2 - 10.6.

#### 10.2 Chemical stability

Material is normally stable at moderately elevated temperatures and pressures.

#### 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

Strong acids. Strong bases. Oxidizing agents.

#### 10.6 Hazardous decomposition products

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

<b>Section 11</b>	<b>Toxicological Information</b>
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#### 11.1 Information on toxicological effects

##### Acute toxicity

##### Oral

The LD50 in rats is > 2000 mg/Kg. Based on data from components or similar materials.

##### Dermal

The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.

##### Inhalation

No data available to indicate product or components may be a toxic inhalation hazard.

##### Skin corrosion / irritation

Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated contact may cause dermatitis.

##### Serious eye damage / irritation

Not expected to cause eye irritation. Based on data from components or similar materials.

##### Respiratory Irritation

If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components or similar materials.

##### Respiratory or skin sensitization

##### Skin

No data available to indicate product or components may be a skin sensitizer.

##### Respiratory

No data available to indicate product or components may be respiratory sensitizers.

##### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

##### Carcinogenicity

No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

##### Reproductive Toxicity

No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

##### STOT repeated exposure

No data available to indicate product or components present at greater than 1% are chronic health hazards.

##### Other information

No other health hazards known.

<b>Section 12</b>	<b>Ecological Information</b>
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#### 12.1 Toxicity

**Freshwater fish**

Not determined.

**Freshwater invertebrates**

Not determined.

**Algae**

Not determined.

**Saltwater fish**

Not determined.

**Saltwater invertebrates**

Not determined.

**Bacteria**

Not determined.

**12.2 Persistence and degradability**

Not applicable.

**12.3 Bioaccumulative potential**

Not applicable.

**12.4 Mobility in soil**

Not applicable.

**12.5 Results of PBT and vPvB assessment**

Not Available

**12.6 Other adverse effects**

None known.

<b>Section 13</b>	<b>Disposal Considerations</b>
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**13.1 Waste treatment methods**

All disposal practices must be in accordance with local, regional, national and international regulations.

Dispose of packaging or containers in accordance with local, regional, national and international regulations.

<b>Section 14</b>	<b>Transport Information</b>
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**14.1 UN number**

<b>ADR/RID</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IMDG</b>	Not regulated

**14.2 UN proper shipping name**

<b>ADR/RID</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IMDG</b>	Not regulated

**14.3 Transport hazard class(es)**

<b>ADR/RID</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IMDG</b>	Not regulated

**14.4 Packing group**

<b>ADR/RID</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IMDG</b>	Not regulated

**14.5 Environmental hazards**

<b>ADR/RID</b>	Not applicable.
<b>ICAO</b>	Not applicable.
<b>IMDG</b>	Not applicable.

**14.6 Special precautions for users**

Review classification requirements before shipping materials at elevated temperatures.

**14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code**

Not determined.

<b>Section 15</b>	<b>Regulatory Information</b>
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**15.1 Safety, health and environment regulations / legislation specific for the substance or mixture****Global Chemical Inventories**

<b>Australia</b>	All components are in compliance with chemical notification requirements in Australia.
<b>Canada</b>	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
<b>China</b>	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
<b>EU</b>	To obtain information on the REACH compliance status of this product, please visit <a href="http://Lubrizol.com/REACH">Lubrizol.com/REACH</a> , or e-mail us at <a href="mailto:REACH_MSDS_INQUIRIES@Lubrizol.com">REACH_MSDS_INQUIRIES@Lubrizol.com</a>
<b>Japan</b>	All components are in compliance with the Chemical Substances Control Law of Japan.
<b>Korea</b>	All components are in compliance in Korea.
<b>New Zealand</b>	All components are in compliance with chemical notification requirements in New Zealand.
<b>Philippines</b>	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
<b>Switzerland</b>	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
<b>Taiwan</b>	All components of this product are listed on the Taiwan inventory.
<b>USA</b>	All components of this material are on the US TSCA Inventory or are exempt.

**German water hazard classes**

WGK =1 according to the Water Hazardous Directive, VwVwS, dated May 17, 1999.

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out.

<b>Section 16</b>	<b>Other Information</b>
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**Created by**

Product Safety and Compliance Department (440-943-1200)

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**SDS No.**

14120225-2222412-905421-102103

**HMIS Codes**

Health	Fire	Reactivity
1	1	0

**Relevant R Phrases**

Not applicable.

**Relevant hazard phrases**

Not determined.

**Revision Indicators**

Section: 10 Conditions to avoid.

Changed: 24 February 2014

Section: 15 Canada.

Changed: 24 February 2014

Section: 15 Taiwan

Changed: 24 February 2014

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