

## EMKARATE<sup>®</sup> RL 100H

Date Revised: Feb, 2008

### SAFETY DATA SHEET

---

#### **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Address/Telephone number**      **Lubrizol**  
**CPI Engineering Services, Inc**  
**Belasis Business Centre**  
**Billingham, Cleveland**  
**England TS23 4EA**

**Phone: 44-1642-565266**  
**Fax: 44-1642-566224**

**Emergency telephone numbers**      **Europe – NCEC: +44 (0)208-762-8322**  
**USA – Chemtrec: 800-424-9300**  
**All Others – Chemtrec: +1-703-527-3887**

**Use**      Lubricant

---

#### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

**Product description**      Polyol ester

##### **Hazardous Ingredients**

<b>Chemical name</b>	<b>EINECS Number</b>	<b>%</b>	<b>Symbol R-Phrases</b>
----------------------	----------------------	----------	-------------------------

Contains no Hazardous Ingredients (2001/58/EC)

---

#### **3. HAZARDS IDENTIFICATION**

This health hazard assessment is based on information available on similar products.

<b>Eye contact</b>	May cause mild eye irritation.
<b>Skin contact</b>	Repeated or prolonged skin contact may result in mild irritation. Unlikely to cause skin irritation in man.
<b>Inhalation</b>	Unlikely to be hazardous by inhalation. High concentrations of mist may be slightly irritant to the upper respiratory tract.
<b>Ingestion</b>	Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.
<b>Long Term Exposure</b>	Short term tests and a consideration of the structure have shown that it is unlikely to be a carcinogenic hazard to man.

# EMKARATE<sup>®</sup> RL 100H

Date Revised: Feb, 2008

## SAFETY DATA SHEET

---

### **4 FIRST AID MEASURES**

<b>Eye contact</b>	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin with soap and water. If symptoms develop, obtain medical attention.
<b>Inhalation</b>	Remove patient from exposure. Obtain medical attention if ill effects occur.
<b>Ingestion</b>	Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention if ill effects occur.
<b>Further Medical Treatment</b>	Symptomatic treatment and supportive therapy as indicated.

---

### **5 FIRE-FIGHTING MEASURES**

Thermal decomposition will evolve irritant vapours.

<b>Extinguishing Media</b>	Water fog, alcohol foam, carbon dioxide, dry chemical.
<b>Unsuitable Extinguishing Media</b>	None known
<b>Special fire-fighting protective equipment</b>	A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.
<b>Fire and explosion hazards</b>	Combustible but not readily ignited.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact:</b>	No data.
<b>Sensitivity to static discharge:</b>	No data.

---

### **6.ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Refer to section 8 for proper personal protective equipment
<b>Environmental precautions</b>	Do not allow to enter drains, sewers or watercourses.
<b>Methods for cleaning up</b>	Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area clean with water and detergent.
<b>Other information</b>	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

---

### **7. HANDLING AND STORAGE**

<b>Handling</b>	Avoid inhalation of high concentrations of vapours.
<b>Storage</b>	Ambient. Store in original containers. Suitable containers, mild steel

# EMKARATE<sup>®</sup> RL 100H

Date Revised: Feb, 2008

## SAFETY DATA SHEET

---

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Exposure limit values

Chemical name	Exposure limit values	Notes
No Workplace Exposure Limit Assigned.		
<b>Engineering measures</b>		Provide adequate ventilation.
<b>Eye protection</b>		Safety glasses with side shields.
<b>Skin protection</b>		Good working practice suggests gloves should be worn.
<b>Hand protection</b>		Natural rubber is recommended.
<b>Respiratory protection</b>		Respiratory protection is not required if good ventilation is maintained
<b>Other</b>		Eyewash and safety shower easily accessible to the work area.

---

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Values are not product specifications.

<b>Colour</b>	Pale yellow
<b>Form</b>	Liquid
<b>Odour</b>	Mild
<b>pH</b>	No data.
<b>Boiling point/boiling range (°C)</b>	No data.
<b>Flash Point (°C)</b>	260 (closed cup)
<b>Autoignition Temperature (°C)</b>	No data.
<b>Flammable Limits</b>	No data.
<b>Explosive Properties</b>	No data.
<b>Oxidising Properties</b>	No data.
<b>Vapour Density</b>	No data.
<b>Solubility in water</b>	No data.
<b>Solubility in other ingredients</b>	No data.
<b>Partition Coefficient</b>	No data.
<b>Kinematic viscosity (mm<sup>2</sup>/s)</b>	96.5 @ 40°C
<b>Density (g/ml)</b>	0.969
<b>Pour Point (°C)</b>	-25

---

### **10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	Strong oxidising agents.
<b>Conditions to avoid</b>	None known
<b>Hazardous decomposition products</b>	None known
<b>Hazardous polymerisation</b>	Will not occur

---

### **11. TOXICOLOGICAL INFORMATION**

No information available.

# EMKARATE<sup>®</sup> RL 100H

Date Revised: Feb, 2008

## SAFETY DATA SHEET

---

### **12. ECOLOGICAL INFORMATION**

No information available.

---

### **13. DISPOSAL CONSIDERATIONS**

<b>Methods of Disposal</b>	Disposal should be in accordance with local, state or national legislation.
<b>Contaminated packaging</b>	Puncture or otherwise destroy empty container before disposal.

---

### **14. TRANSPORT INFORMATION**

Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA-DGR.

---

### **15. REGULATORY INFORMATION**

Not Classified as Dangerous for Supply/Use.

<b>WGK</b>	1
------------	---

#### **Inventory Status**

<b>EU (EINECS/ELINCS/NLP)</b>	Compliant.
<b>USA (TSCA)</b>	Compliant.
<b>Australia (AICS)</b>	Compliant.
<b>Japan (ENCS)</b>	Compliant.
<b>China (IECSC)</b>	Compliant.
<b>Korea (ECL)</b>	Compliant.
<b>Philippines (PICCS)</b>	Compliant.

---

### **16. OTHER INFORMATION**

This data sheet was prepared in accordance with Directive (EC) 1907/2006

*The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of The Lubrizol Corporation's knowledge; however, The Lubrizol Corporation makes no warranty whatsoever, expressed or implied of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from use thereof. The Lubrizol Corporation assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.*

*Emkarate<sup>®</sup> is a registered trademark of The Lubrizol Corporation.*