

MATERIAL SAFETY DATA SHEET

EMKARATE RL 68H  
 UNIQEMA  
 MSDS ID: 37782

REC'D MAR 09 1999

Page 1 of 6  
 Revised 2/17/99  
 Replaces 2/09/99  
 Printed 3/05/99

---

 SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
 

---

ICI Americas Inc.  
 3411 Silverside Rd.  
 Wilmington, Delaware 19810

ICI Operator (24 hr.): (302) 887-3000  
 Medical Emergency (24 hr.): (800) 228-5635 Extension 181  
 Chemical Emergency (24 hr.) Involving Transportation  
 Spills, Leaks, Fires, Accidents: (800) 424-9300

EMKARATE (TM) RL 68H  
 General Use: Refrigeration Lubricant  
 Alternative names:

---

 SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS
 

---

Ingredients	New Jersey TSR	% (w/w)	OSHA PEL
Polyol Esters	08306620-5845P, 5846P	>99	Not listed
Antioxidant		< 1	Not listed

Ingredients not precisely identified are proprietary or nonhazardous.

---

 SECTION 3. Hazards Identification \*\*\*
 

---

Emergency Overview:

Appearance: Pale yellow, clear liquid  
 Physical hazards \* : None  
 Health hazards \* : None

\* Hazard summary as defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200.

Potential Health Effects:

General: This health hazard assessment is based on a consideration of the composition of this product.

\*\*\* Repeated or prolonged skin contact may result in irritation. May cause mild eye irritation. High concentration of aerosols or mists may be slightly irritating to the upper respiratory tract.

Read the entire MSDS for a more thorough evaluation of the hazards.

3133

MATERIAL SAFETY DATA SHEET

Page 2 of 6  
Revised 2/17/99  
Replaces 2/09/99  
Printed 3/05/99

EMKARATE RL 68H  
UNIQEMA  
MSDS ID: 37782

SECTION 4. First Aid Measures

**Skin Contact:** Remove contaminated clothing. Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

**Eye Contact:** Irrigate with eyewash solution or clean water, holding eyelids apart, for at least 10 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.

**Ingestion:** Do NOT induce vomiting. Wash out mouth with water and give 1 or 2 glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person.)

**Inhalation:** Remove patient from exposure. If a cough or other respiratory symptoms develop, consult medical personnel.

**Note to Physician:** This material is considered to be only slightly toxic. The potential complications associated with removing material from the GI tract, the amount digested, and the time since ingestion should be taken into account when developing a treatment plan.

SECTION 5. Fire Fighting Measures

**Fire and Explosion Hazards:** Low fire hazard. Unlikely to ignite except in high heat flux conditions. Thermal decomposition will evolve irritant vapors.

**Extinguishing Media:** Carbon dioxide, dry chemical, or appropriate foam. If water is used, use with care to avoid possible violent production of steam.

**Fire Fighting Equipment:** Use self-contained breathing apparatus with full facepiece and protective clothing.

**Flashpoint (Deg C):** 270 (open cup)

**Autoignition temperature:** Not determined

**Flammable limits:** Not determined

**Explosive Power:** None

**Combustion Products:** Carbon dioxide, carbon monoxide

**NFPA Hazard ID:** Health: 1, Flammability: 1, Reactivity: 0, Special

3133

MATERIAL SAFETY DATA SHEET

Page 3 of 6  
Revised 2/17/99  
Replaces 2/09/99  
Printed 3/05/99

EMKARATE RL 68H  
UNIQEMA  
MSDS ID: 37782

SECTION 5. Fire Fighting Measures (Cont.)

Hazard: None

SECTION 6. Accidental Release Measures \*\*\*

\*\*\* Wear skin and eye protection during clean-up. Contain and absorb large spillages onto an inert, non-flammable absorbent carrier (such as earth or sand). Do not allow to enter drains, sewers, or waterways. shovel into a chemical waste container for disposal or recovery.

SECTION 7. Handling and Storage

Handling: Avoid prolonged or recurring skin contact. Avoid inhalation of high concentrations of mists or aerosols.

Storage Requirements: Avoid ingress of moisture by keeping containers properly sealed when not in use. Product application requires that the product remain dry and free of excessive moisture pick-up. Keep away from strong oxidizing agents.

Suitable Containers: Mild steel.

Storage Temperature: Ideal storage temperature is 60 to 100 deg F.

Storage Life: Two years, minimum.

SECTION 8. Exposure Controls/Personal Protection

Exposure guidelines: No OSHA PELs or ACGIH TLVs have been assigned. Minimize exposure in accordance with good industrial hygiene practice.

Engineering controls: Provide eyewash station and safety shower in work area. Use ventilation adequate to maintain safe levels.

Respiratory protection: Not normally needed, if controls are adequate. If needed, use MSHA-NIOSH approved respirator for organic vapors.

Protective clothing: Gloves determined to be impervious under conditions of use. Depending on conditions of use, additional protection may be required such as apron, arm covers, or full body suit. Wash contaminated clothing before rewearing.

Eye protection: Chemical tight goggles.

MATERIAL SAFETY DATA SHEET

Page 4 of 6  
Revised 2/17/99  
Replaces 2/09/99  
Printed 3/05/99

EMKARATE RL 68H  
UNIQEMA  
MSDS ID: 37782

SECTION 9. Physical and Chemical Properties

Appearance: Pale yellow, clear liquid  
Odor: Mild  
Flash point (deg C): 270 (open cup)  
Boiling point: Not determined  
Vapor pressure (mmHg at 20 deg C): No data  
Specific gravity (20/20 deg C): 0.977  
Solubility in water: Less than 1%  
Solubility (other): No data  
Pour point (deg C): -39  
Kinematic viscosity (cSt at 40 deg C): 72.3 cSt  
(cSt at 100 deg C): 9.8 cSt

SECTION 10. Stability and Reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Highly unlikely under intended handling and use. See Section 5.

Combustion products: Carbon dioxide, Carbon monoxide.

Hazardous polymerization: Will not occur.

SECTION 11. Toxicological InformationPossible Human Health Effects:

Inhalation: High concentrations of mist may be slightly irritant to the upper respiratory tract. Thermal decomposition will evolve irritant vapors.

Skin contact: Repeated or prolonged skin contact may result in irritation. Not a skin irritant per OSHA Hazard Communication Standard, 29 CFR 1910.1200. It is not a skin sensitiser in animal tests. It is unlikely to be a skin sensitizer following contact with human skin.

Eye contact: May cause mild eye irritation.

Ingestion: Low oral toxicity.

Carcinogenicity: The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

Mutagenicity: There is no substantial evidence of mutagenic

3133

MATERIAL SAFETY DATA SHEET

EMKARATE RL 68H  
UNIQEMA  
MSDS ID: 37782

Page 5 of 6  
Revised 2/17/99  
Replaces 2/09/99  
Printed 3/05/99

SECTION 11. Toxicological Information (Cont.)

potential.

Reproductive Effects: No adverse reproductive effects are anticipated.

Teratogenicity and Fetotoxicity: No information is available and no adverse teratogenic/embryotoxic effects are anticipated.

SECTION 12. Ecological Information

Persistence and degradation: Not determined.

Effect on effluent treatment: Not determined.

SECTION 13. Disposal Considerations

Disposal method: Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container disposal: Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

SECTION 14. Transport Information

DOT, IMO, IATA/ICAO class: Not regulated.

SECTION 15. Regulatory Information

OSHA classification:  
Physical: Not regulated.  
Health: Not regulated.

TSCA (Toxic Substances Control Act) Regulations: All ingredients are on the TSCA Chemical Substance Inventory.

CERCLA and SARA Regulations (40 CFR 355, 370 and 372): This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

Controlled Products Regulations (WHMIS) Classification: Not regulated.

IARC Classification: None of the components of this product are listed

3133

MATERIAL SAFETY DATA SHEET

EMKARATE RL 68H  
UNIQEMA  
MSDS ID: 37782

Page 6 of 6  
Revised 2/17/99  
Replaces 2/09/99  
Printed 3/05/99

SECTION 15. Regulatory Information (Cont.)

on IARC.

SECTION 16. Other Information

HMIS Ratings:

Health Hazard: 1  
Flammability Hazard: 1  
Reactivity Hazard: 0  
Personal Protection: See MSDS Section 8

\*\*\* This line or section contains revisions or new statements since the last issue date.

The information herein is given in good faith  
but no warranty, expressed or implied, is made.