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**MATERIAL SAFETY DATA**  
**SHEET**  
**EMKARATE RL 32H**

PDF Version of MSDS

**I - PRODUCT IDENTIFICATION**

**Company Name:** Nu-Calgon Wholesaler, Inc. **Tel No:** (314) 469-7000, (800) 554-5499  
**Address:** 2008 Altom Court, St. Louis, MO 63146-4151 **CHEMTREC:** (800) 424-9300  
**Product Name:** EMKARATE RL 32H **Product Number:** 4314-46  
**Synonyms:** Refrigeration Oil

**II - HAZARDOUS INGREDIENTS OF MIXTURES**

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Polyol Ester		>99	N/A	N/A
Additives		<1	N/A	N/A

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications. None of the ingredients are subject to the reporting requirements of SARA, Section 313.

All ingredients are TSCA listed.

**III - PHYSICAL DATA**

**Vapor Pressure:** (mm Hg at 20°C): <10 **Vapor Density (Air=1) 60-90°F:** Not determined  
**Evaporation Rate:** **VOC Content (% by wt.):** Not determined  
**Solubility in H<sub>2</sub>O:** Insoluble **pH @ Solution:** Not determined  
**Freezing Point °F:** Not determined **pH as Distributed:** Not determined  
**Boiling Point °F:** Not determined **Appearance:** Pale yellow, Clear Liquid  
**Specific Gravity H<sub>2</sub>O=1 @25°C:** 0.977 **Odor:** Mild

**IV - FIRE AND EXPLOSION**

**Flash Point F:** 518°F, 270 ° C (COC) **Flammable Limits:** Not determined  
**Extinguishing Media:** Water fog, foam, carbon dioxide, dry chemical, halogenated agents.  
**Special Fire Fighting Procedures:** Self-contained breathing apparatus with full facepiece and protective clothing.  
**Unusual Fire and Explosion Hazards:** None known.

**V - REACTIVITY DATA**

**Stability - Conditions to avoid:** Stable under normal conditions.  
**Incompatibility:** Oxidizing agents.  
**Hazardous Decomposition Products:** Combustion products: Carbon dioxide, carbon monoxide.  
**Conditions Contributing to Hazardous Polymerizations:** Will not occur.

**VI - HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects),**  
**A. ACUTE (Primary Route of Exposure) INGESTION:** The acute oral LD50 in rat is probably above 2,000 mg/kg. Relative to other materials, this material is classified as "slightly toxic" by ingestion. In humans, irritation of the mouth, pharynx, esophagus and stomach may develop following ingestion of this product. **EYES:** No irritation is likely to develop following contact with human eyes. **SKIN:** Short contact periods with human skin are not usually associated with skin irritation; repeated and/or

prolonged contact can result in skin irritation. **INHALATION:** No toxic effects are known to be associated with inhalation of vapors from this material. High concentrations of mist may be slightly irritating to the upper respiratory tract. Thermal decomposition will evolve irritant vapors.

**B. SUBCHRONIC, CHRONIC, OTHER:** No other adverse clinical effects have been associated with exposures to this material.

**C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** N/A

### VII - EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

**EYES:** Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.

**SKIN:** 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.

**INGESTION:** Do not induce vomiting. Give 1 or 2 glasses of water to drink and refer person to medical attention. (Never give anything by mouth to an unconscious person).

### VIII - SPILL OR LEAK PROCEDURE

**Spill Management:** Wear skin protection during cleanup. Contain spill. Keep out of sewers and drains. Soak up material with absorbent and shovel into a chemical waste container.

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

### IX - PROTECTION INFORMATION/CONTROL MEASURES

**Respiratory:** Use MSHA-NIOSH approved respirator for organic vapors, dusts and mists whose TLV is greater than 0.05 mg/m<sup>3</sup>.

**Eye Protection:** Chemical tight goggles. **Glove:** Impervious

**Other Clothing and Equipment:** Impervious apron. Eyewash station and safety shower in work area.

**Ventilation:** Use ventilation adequate to maintain safe levels.

### X - SPECIAL PRECAUTIONS

**Precautions to be taken in Handling and Storing:** Prevent skin contact. Avoid inhalation of high concentrations of mists.

**Additional Information:**

**NFPA HMIS RATING**

Health Hazard.....: 1 Health Hazard.....: 1  
Fire Hazard.....: 1 Fire Hazard.....: 1  
Reactivity.....: 0 Reactivity.....: 0  
Specific Hazard...: Personal Protection...: X (Sec. 9)

**Revision Date: 06/21/2006**

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**Category:** ↵REFRIGERATION OIL

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