



MATERIAL SAFETY DATA SHEET

EMKARATE RL 170H

I - PRODUCT IDENTIFICATION

Company Name: Nu-Calgon Wholesaler, Inc.
Address: 2008 Altom Court, St. Louis, MO 63146-4151
Product Name: EMKARATE RL 170H
Synonyms: Refrigeration Oil

Tel No: (314) 469-7000, (800) 554-5499
CHEMTREC: (800) 424-9300
Product Number: 4318-25

II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Polyol Ester		>99	Not listed	Not listed
Antioxidant		<1		

All ingredients are TSCA listed.

III - PHYSICAL DATA

Vapor Pressure: <10 mm Hg @ 20 ° C
Evaporation Rate: N/A
Solubility in H₂O: insoluble
Freezing Point °F: N/A
Boiling Point °F: N/A
Specific Gravity H₂O=1 @25° C: 0.976+

Vapor Density (Air=1) 60-90° F: N/A
VOC Content (% by wt.): N/A
pH @ Solution: N/A
pH as Distributed: N/A
Appearance: Pale straw liquid
Odor: Mild

IV - FIRE AND EXPLOSION

Flash Point F: 576 ° F 302°C **Flammable Limits:** No data
Extinguishing Media: Water, fog, foam, carbon dioxide, dry chemical, halogenated agents.
Special Fire Fighting Procedures: Self-contained breathing apparatus with full face-plate & protective clothing.
Unusual Fire and Explosion Hazards: None known.

V - REACTIVITY DATA

Stability - Conditions to avoid: Stable
Incompatibility: Oxidizing agents.
Hazardous Decomposition 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. **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. This product will probably not be absorbed through human skin. **INHALATION:** Inhalation data are not available on this material. Vapors and aerosols will probably irritate respiratory passages.
B. SUBCHRONIC, CHRONIC, OTHER: No other adverse clinical effects have been associated with exposures to this material.
C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

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. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person.)

VIII - SPILL OR LEAK PROCEDURE

Spill Management: Wear skin and respiratory 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/m³.

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

Other Clothing and Equipment: 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 breathing vapors or aerosols.

Additional Information:

NFPA

Health Hazard.....: 1

Fire Hazard.....: 1

Reactivity.....:

Specific Hazard ...:

HMIS RATING

Health Hazard.....: 1

Fire Hazard.....: 1

Reactivity.....:

Personal Protection ...: X (Sec. 9)

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