



MATERIAL SAFETY DATA SHEET EMKARATE RL 220H

I - PRODUCT IDENTIFICATION

Company Name: Nu-Calgon Wholesaler, Inc.
Address: 2008 Altom Court, St. Louis, MO 63146-4151
Product Name: EMKARATE RL 220H
Synonyms: Refrigeration Oil

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

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
Antioxidant		<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: No data
Evaporation Rate:	VOC Content (% by wt.): No data
Solubility in H₂O: Insoluble	pH @ Solution: No data
Freezing Point °F:	pH as Distributed: No data
Boiling Point °F: Not Determined	Appearance: Liquid
Specific Gravity H₂O=1 @25° C: 0.976	Odor: Mild odor

IV - FIRE AND EXPLOSION

Flash Point F: 536 °F, 280 dtg. C (COC) **Flammable Limits:** No data
Extinguishing Media: Water fog, foam, carbon dioxide, dry chemical, halogenated agents.
Special Fire Fighting Procedures: Use self-contained breathing apparatus with full facepiece and protective clothing.
Unusual Fire and Explosion Hazards: Low fire hazard. Unlikely to ignite except in high heat flux conditions. Thermal decomposition will evolve irritant vapors.

V - REACTIVITY DATA

Stability - Conditions to avoid: Stable under normal conditions.
Incompatibility: Strong oxidizing vapors.
Hazardous Decomposition Products: Highly unlikely under intended handling and use.
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) INHALATION: High concentrations of mist may be slightly irritant to the upper respiratory tract. Thermal decomposition will evolve irritant vapors. **SKIN:** Repeated or prolonged skin contact may result in mild irritation. Not a skin irritant per OSHA Hazard Communication Standard, 29 CFR 1910.1200. It is not a skin sensitizer in animal tests. **EYES:** May cause mild eye irritation. **INGESTION:** Low oral toxicity.
B. SUBCHRONIC, CHRONIC, OTHER: No other adverse clinical effects have been associated with exposures to this material. Short term tests and a consideration of the structure indicate that this substance is unlikely to be a carcinogenic hazard to humans.
C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

VII - EMERGENCY AND FIRST AID PROCEDURES

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

EYES: 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.

SKIN: 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.

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).

VIII - SPILL OR LEAK PROCEDURE

Spill Management: Wear skin 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.

Waste Disposal Methods: Shovel it into a chemical waste container for disposal or recovery.

IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: Use NSHA-NIOSH approved for organic vapors, dusts and mists whose TLV is greater than 0.05 mg/m3.

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

Other Clothing and Equipment: Provide 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 : Avoid prolonged or recurring skin contact. Avoid inhalation of high concentrations of mists or aerosols. 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.

Additional Information:

NFPA

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Specific Hazard ...:

HMIS RATING

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

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

Revision Date: 09/15/2003

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