



MATERIAL SAFETY DATA SHEET EMKARATE RL 68H

I - PRODUCT IDENTIFICATION

Company Name: Nu-Calgon Wholesaler, Inc.
Address: 2008 Altom Court, St. Louis, MO 63146-4151
Product Name: EMKARATE RL 68H
Synonyms: Refrigeration Oil

Tel No: (314) 469-7000, (800) 554-5499
CHEMTREC: (800) 424-9300
Product Number: 4316-41

II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Polyol ester	08306620-5845	>99	Not listed	Not listed
Additives	P, 5846P	<1	Not listed	Not listed

Ingredients not precisely identified are proprietary or non hazardous. 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: No data
Evaporation Rate: (H₂O=1): Not Determined
Solubility in H₂O: Less than 1%
Freezing Point °F: Not Determined
Boiling Point °F: Not determined
Specific Gravity H₂O=1 @25° C: 0.977

Vapor Density (Air=1) 60-90° F: Not Determined
VOC Content (% by wt.): None Volatile
pH @ Solution: Not Determined
pH as Distributed: Not Determined
Appearance: pale yellow, clear liquid
Odor: Mild

IV - FIRE AND EXPLOSION

Flash Point F: 518 ° F (open cup) 270° C **Flammable Limits:** Not Determined
Extinguishing Media: Carbon dioxide, Water fog, dry chemical or appropriate foam. If water is used, use with care to avoid possible violent production of steam.
Special Fire Fighting Procedures: 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.

V - REACTIVITY DATA

Stability - Conditions to avoid: Stable under normal conditions.
Incompatibility: Strong oxidizing agents
Hazardous Decomposition Products: Highly unlikely under intended handling & use. 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. **EYES:** May cause mild irritation **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:** High concentrations of mist may be slightly irritating to the upper respiratory tract. Thermal decomposition will evolve irritant vapors.
B. SUBCHRONIC, CHRONIC, OTHER: No adverse effects are presently known.
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: 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. 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 (if mist or vapors are present) 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. 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.

IX - PROTECTION INFORMATION/CONTROL MEASURES

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

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

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: Avoid prolonged or recurring skin contact. Avoid inhalation or high concentrations of mists or aerosols. Avoid ingress or 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: Prevent skin and eye contact. Avoid inhalation of high concentrations of mists.

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: 01/12/2004

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