



EMKARATE RL 68S - 4316-S

MATERIAL SAFETY DATA SHEET
EMKARATE RL 68S**I - PRODUCT IDENTIFICATION**

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

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

II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Polyol Ester	08306620-5843	>99	N/A	N/A
Antioxidant	P, 5844P	<1	N/A	N/A

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications.

All ingredients are on the TSCA Chemical Substance Inventory

None of the ingredients are subject to the reporting requirements of SARA, Section 313.

III - PHYSICAL DATA

Vapor Pressure: <10 (mm Hg @ 20 ° C)
Evaporation Rate:
Solubility in H₂O: <1%
Freezing Point °F:
Boiling Point °F: >250 °C
Specific Gravity H₂O=1 @25° C: 0.973

Vapor Density (Air=1) 60-90° F: No data
VOC Content (% by wt.): No data
pH @ Solution: No data
pH as Distributed: No data
Appearance: pale yellow, clear liquid
Odor: Mild odor.

IV - FIRE AND EXPLOSION

Flash Point F: 245 ° C (open cup) **Flammable Limits:** No data
Extinguishing Media: Carbon dioxide, 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 condition. Thermal decomposition will evolve irritant vapors.

V - REACTIVITY DATA

Stability - Conditions to avoid: Stable under normal conditions.
Incompatibility: Oxidizing agents.
Hazardous Decomposition Products: Highly unlikely under intended handling and use. Combustion products: Carbon dioxide, carbon monoxide. Thermal decomposition will evolve irritant vapors.
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 irritating to the upper respiratory tract. Thermal decomposition will evolve irritant vapors. **EYES:** Mild irritation is likely to develop following contact with human eyes. **SKIN:** Repeated and/or prolonged contact can result in minor irritation. This material was not a skin sensitizer in animal testing. The potential is low for developing sensitization following contact with human skin. This product probably will not be absorbed through human skin. **INGESTION:** This material is classified as "slightly toxic" by ingestion.
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: 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 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 or original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: If needed, 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 and apron.

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. Storage: 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)

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