



MATERIAL SAFETY DATA SHEET EMKARATE RL 32S

I - PRODUCT IDENTIFICATION

Company Name: Nu-Calgon Wholesaler, Inc.
Address: 2008 Altom Court, St. Louis, MO 63146-4151
Product Name: EMKARATE RL 32S
Synonyms: Refrigeration Oil

Tel No: (314) 469-7000, (800) 554-5499
CHEMTREC: (800) 424-9300
Product Number: 4314-S

II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Polyol Ester	08306620-5803	>99	N/A	N/A
Additives	P	<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: 6.5	Vapor Density (Air=1) 60-90° F: No data
Evaporation Rate:	VOC Content (% by wt.): No data
Solubility in H₂O: Insoluble (<1 mg/1)	pH @ Solution: No data
Freezing Point °F:	pH as Distributed: No data
Boiling Point °F: > 250 °C	Appearance: Pale yellow, clear liquid.
Specific Gravity H₂O=1 @25° C: 0.973	Odor: Mild odor

IV - FIRE AND EXPLOSION

Flash Point F: 250 °C (open cup) **Flammable Limits:** No data
Extinguishing Media: Carbon dioxide, dry chemical or appropriate foam. Use water 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. Thermal decomposition will evolve irritant vapors.

V - REACTIVITY DATA

Stability - Conditions to avoid: Stable under normal conditions.
Incompatibility: Strong 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: This material is classified as "slightly toxic" by ingestion. **EYES:** This material is nonirritating in rabbit eye irritation studies; unlikely to cause eye irritation in man. **SKIN:** Repeated or prolonged skin contact may result in irritation. Not a skin irritant per OSHA Hazard Communication Standard, 20 CFR 1910.1200. It is not a skin sensitiser in animal tests. **INHALATION:** High concentration 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:

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 and absorb large spillages onto an inert, non-flammable absorbent carrier (such as earth or sand). 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: 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

Other Clothing and Equipment: Impervious gloves and apron. Eyewash station and safety shower in work areas.

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. Store in tightly sealed containers to protect from atmospheric moisture. Store in a cool area.

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: 10/04/2002

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions. While Seller believes that the information contained herein is accurate, such information is offered solely for its customers' consideration and verification under their specific use conditions.