

MATERIAL SAFETY DATA SHEET EMKARATE RL 100S

I - PRODUCT IDENTIFICATION

Company Name: Nu-Calgon Wholesaler, Inc. Address: 2008 Altom Court, St. Louis, MO 63146-4151 Product Name: EMKARATE RL 100S Synonyms: Refrigeration Oil **Tel No:** (314) 469-7000, (800) 554-5499 **CHEMTREC:** (800) 424-9300 **Product Number:** 4317-S

II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL	CAS#	<u>% By Wt</u>	TLV	PEL	
Polyol Ester		>99	N/A	N/A	
Additives		<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 Evaporation Rate: Solubility in H₂O: Insoluble Freezing Point °F: Boiling Point °F: >572 °F >300 °. C Specific Gravity H₂O=1 @25° C: 0.973 (@ 15 ° C) 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: Liquid Odor: Mild odor

IV - FIRE AND EXPLOSION

Flash Point F: 500 ° F, 260 ° C (COC) Flammable Limits: Not determined. Extinguishing Media: Water fog, foam, carbon dioxide, dry chemical, halogenated agents. Special Fire Fighting Procedures: Self-contained breathing apparatus with full facepiece and protective clothing.

Unusual Fire and Explosion Hazards : None known.

V - REACTIVITY DATA

Stability - Conditions to avoid: Stable under normal conditions. Incompatibility: 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: 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: This material may irritate human eyes following contact. 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: No toxic effects are known to be associated with inhalation of vapors from this material. High concentrations of mist may be slightly irritant to the upper respiratory tract.

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 eye 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 and apron.

Other Clothing and Equipment: Full faceshield in additon if splashing is possible. 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 and eye contact. 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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