

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name Nu-Calgon Wholesaler, Inc.	Phone Number (314) 469-7000 / (800)	554-5499		CHEMTREC (800) 424-9300	
Street Address 2008 Altom Court	City St. Louis	State MO	Postal 63146-		Last Update 3/08/10
Product Name Emkarate RL 100E	Product Number 4317-66	Product Use Refrigerant Lubric	cant		EPA Registration # N/A

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	% By Wt.	CAS Number	TLV	<u>PEL</u>
Polyol ester	>99		No TLV	No PEL
			established	established
antioxidant	<1		No TLV	No PEL
			established	established

## **SECTION 3 – HAZARD IDENTIFICATION**

Emergency Overview: Color Colorless / Form Liquid / Odor Ester-like odor

MAY BE HARMFUL IF SWALLOWED. EXCESSIVE INHALATION EXPOSURE MAY CAUSE IRRITATION OF RESPIRATORY PASSAGES.

MAY CAUSE SLIGHT SKIN IRRITATION. MAY CAUSE EYE IRRITATION May cause long term adverse effects in the aquatic environment.

REPEATED/PROLONGED CONTACT MAY CAUSE SKIN IRRITATION.

#### **Potential Health Effects**

Eyes: May cause eye irritation in man.

Skin: May cause skin irritation. Prolonged or repeated contact may produce defatting of the skin leading to irritation and dermatitis. No toxic effects are expected if absorbed through the skin.

Ingestion: In humans, irritation of the mouth, pharynx and esophagus can develop following ingestion of this product. May be harmful if swallowed.

Inhalation: This material may cause irritation following inhalation. No toxic effects are known to be associated with inhalation of this material.

**Chronic Exposure:** No Data.

<u>Carcinogenicity</u>: Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

Medical Conditions Aggravated be Exposure: No Data.

#### **SECTION 4 – FIRST AID MEASURES**

Eves: 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 soap and plenty of water. Get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

<u>Ingestion</u>: DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

## **SECTION 5 – FIREFIGHTING MEASURES**

Flash Point: 240(open cup)°C/464(open cup)°F

Autoignition Temp: No data.°C/No data.°F

Hazardous Products of Combustion: No Data.

Flammable Limits in Air: No data.

**Extinguishing Media:** Water fog, alcohol foam, carbon dioxide, dry chemical.

Fire and Explosion Hazards: None known.

Special Firefighting Procedures: A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: Contain spill. Soak up material with absorbent and shovel into a chemical waste container. Wash residue from spill area with water containing detergent and flush to a sewer serviced by a permitted wastewater treatment facility.

## **SECTION 7 – HANDLING AND STORAGE**

Handling Procedures and Equipment: Prevent eye contact. Prevent skin contact. Avoid breathing this material. Do not swallow.

Storage Requirements: Store in original containers.

#### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** Respiratory protection is not normally needed if controls are adequate.

**Eye Protection:** Chemical tight goggles.

**Protective Clothing:** Impervious gloves.

**Exposure Guidelines:** Minimize exposure in accordance with good hygiene practice.

Specific Engineering Controls (such as ventilation, enclosed process): Provide adequate ventilation. Eyewash and safety shower easily accessible to the

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid	Freezing Point: No Data.°C/No Data.°F	% Volatile by Weight: No Data.%
Color: Colorless	Vapor Density [air =1]: No Data.	Evaporation Rate: No Data.
Odor: Ester-like odor	Vapor Pressure: No Data.	Specific Gravity: 0.98 - 1
Boiling Point: No Data.°C/No Data.°F	Solubility in Water: Insoluble	pH (concentrate): No Data.

#### SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Hazardous Polymerization: Will not occur.

**Incompatibilities:** Strong oxidizing agents.

Reactive Conditions to avoid: None known.

**Decomposition Products:** None known.

## SECTION 11 - TOXICOLOGICAL INFORMATION

<u>Hazardous Ingredients</u>	<u>CAS #</u>	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
No available information.				

## **SECTION 12 – ECOLOGICAL INFORMATION**

Hazardous Ingredients	Aquatic Toxicity Data
No available information.	

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

<u>Waste Disposal</u>: Disposal should be in accordance with local, state or national legislation. 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.

#### **SECTION 14 – TRANSPORTATION INFORMATION**

Special Ship	oping Information: Not regulated.			
Purview	Proper Shipping Name	<u>UN Number</u>	Packing Group	Hazard Class
DOT (Land)	Not regulated.			
IMO (Water)	Not regulated.			
ICAO (Air)	Not regulated.			

## SECTION 15 – REGULATORY INFORMATION

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WHMIS Classification: (Workplace	Noncontrolled (Nonhazardous).
Hazardous Material Information System)	
SARA Title III: (Superfund Amendments &	SARA 311/312 Hazard Categories:
Reauthorization Act)	Immediate Y / Delayed N / Fire N / Pressure N / Reactivity N
OSHA: (Occupational Safety & Health	OSHA Hazard Communication Standard, 29 CFR 1910.1200, Hazard Summary:
Administration)	Health Hazards: Irritant (eye) / Physical Hazards: None
TSCA: (Toxic Substance Control Act)	Compliant.
VOC: (volatile Organic Compounds)	No Data.
CPR: (Canadian Controlled Products	This product has been classified in accordance with the hazard criteria of the Controlled Products
Regulations)	Regulations.
EINECS: (European Inventory of Existing	Compliant. Notified but import conditions apply. Refer to supplier.
Commercial Chemical Substances)	
DSL / NDSL: (Canadian Domestic Substance	No Data.
List)(Non-Domestic Substance List)	
<b>CERCLA:</b> (Comprehensive Response	No Data.
Compensation & Liability Act)	
IDL: (Canadian Ingredient Disclosure List)	No Data.
HFPA (HMIS) Rating: (Hazardous Materials	Health 1
Identification System)	Flammability 1
	Physical Hazards 0
	Instability 0

# **SECTION 16 – OTHER INFORMATION**

Kinematic viscosity(40°C) (mm<sup>2</sup>/S) 95-105

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herin.