



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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|---|--|---|----------------------------------|----------------------------------|
| 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 Code 63146-4151 | Last Update 9/13/07 |
| Product Name Emkarate RL 220XL | Product Number 4318-75 | Product Use Refrigerant Lubricant | | EPA Registration # N/A |

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Ingredients | % By Wt. | CAS Number | TLV | PEL |
|------------------------------|-----------------|-------------------|--------------------|--------------------|
| Polyol ester | >99 | | No TLV established | No PEL established |
| antioxidant | <1 | | No TLV established | No PEL established |
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SECTION 3 – HAZARD IDENTIFICATION

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| Emergency Overview: Color Colorless / Form Liquid / Odor Ester-like odor INHALATION OR INGESTION MAY CAUSE MUCOUS MEMBRANE IRRITATION. EXCESSIVE INHALATION EXPOSURE MAY CAUSE IRRITATION OF RESPIRATORY PASSAGES. MAY CAUSE SLIGHT SKIN IRRITATION. MAY CAUSE EYE IRRITATION |
| Potential Health Effects |
| Eyes: May cause eye irritation in man. |
| Skin: May cause skin irritation. No toxic effects are expected if absorbed through the skin. |
| Ingestion: In humans, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion of this product. No toxic effects are expected following ingestion of this product. |
| 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. |
| Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA. |
| Medical Conditions Aggravated by Exposure: No Data. |

SECTION 4 – FIRST AID MEASURES

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| 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. |
| Ingestion: 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

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| 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: No Data.

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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| 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 |
| 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> | <u>EINECS #</u> | <u>LD 50 of Ingredient</u> (Specify Species) | <u>LC50 of Ingredient</u> (Specify Species) |
|------------------------------|--------------|-----------------|---|--|
| No available information. | | | | |
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SECTION 12 – ECOLOGICAL INFORMATION

| <u>Hazardous Ingredients</u> | <u>Aquatic Toxicity Data</u> |
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| No available information. | |
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SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: 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

SECTION 14 – TRANSPORTATION INFORMATION

Special Shipping Information: Not regulated.

| <u>Purview</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|-----------------------|--|------------------|----------------------|---------------------|
| DOT (Land) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (contains Triaryl phosphate) | | | |
| IMO (Water) | No Data. | | | |
| ICAO (Air) | No Data. | | | |

SECTION 15 – REGULATORY INFORMATION

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| WHMIS Classification: (Workplace Hazardous Material Information System) | Noncontrolled (Nonhazardous). |
| SARA Title III: (Superfund Amendments & Reauthorization Act) | No Data. |
| OSHA: (Occupational Safety & Health Administration) | No Data. |
| TSCA: (Toxic Substance Control Act) | Compliant. |
| VOC: (volatile Organic Compounds) | No Data. |
| CPR: (Canadian Controlled Products Regulations) | This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations. |
| EINECS: (European Inventory of Existing Commercial Chemical Substances) | Compliant. Notified but import conditions apply. Refer to supplier. |
| DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List) | No Data. |
| CERCLA: (Comprehensive Response Compensation & Liability Act) | No Data. |
| IDL: (Canadian Ingredient Disclosure List) | No Data. |
| HFPA (HMIS) Rating: (Hazardous Materials Identification System) | Health 1 Flammability 1 Physical Hazards 0 Instability 0 |

SECTION 16 – OTHER INFORMATION

Kinematic viscosity(40°C) (mm²/S) 214-226

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 herein.