

EMKARATE RL 220H
Material Safety Data Sheet

SECTION I - COMPANY IDENTIFICATION

DUCT: EMKARATE RL 220H

CAT. NO.: LE220H*

* - container size

PRODUCED & DISTRIBUTED BY:

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SECTION II - HAZARDOUS INGREDIENTS

A Hazardous Components (29 CFR 1910.1200)

EXPOSURE LIMITS: 8 HR. TWA

OSHA PEL

ACGIH TLV

Diethyl ester with antioxidant*

NE

NE

Ingredients not precisely identified are proprietary or nonhazardous.

SECTION III - HAZARDS IDENTIFICATIONS

HAZARD AGENCY OVERVIEW: WARNING! Harmful if swallowed. Skin and eye irritant.

HEALTH EFFECTS:

INHALATION: No toxic effects are expected. High concentrations of mist may be irritating to upper respiratory tract.

EYE CONTACT: May cause irritation following contact.

SKIN CONTACT: Repeated or prolonged contact may cause mild irritation. May aggravate pre-existing skin disorders.

INGESTION: This material is slightly toxic. Irritation of gastrointestinal tract may develop following ingestion.

CHRONIC Effects: None known

NOTE:

CARCINOGENICITY: LISTED IN NTP? No

IARC? No

OSHA Regulated? No

SECTION IV - FIRST AID MEASURES

INHALATION: Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult a physician.

SKIN CONTACT: Immediately flush with plenty of water for 15 minutes. If redness, itching, or a burning sensation develops, get medical attention.

EYE CONTACT: Wash material off of skin with plenty of soap and water. If redness, itching, or burning sensation develops get medical attention. Wash clothes before reuse.

INGESTION: DO NOT INDUCE VOMITING. Give 1 or 2 glasses of water to drink. If gastrointestinal symptoms develop, consult a physician.

SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT (TEST METHOD): 536° F, 280° C (COC)

FLAMMABLE LIMITS: LOWER: NAP

UPPER: NAP

IGNITION TEMPERATURE: ND

HAZARD:

FIGHTING INSTRUCTIONS: Approach fire from upwind side. Avoid breathing smoke, fumes, mist or vapors on downwind side. Firefighters wear protective clothing and self contained breathing apparatus.

EXTINGUISHING MEDIA: Water fog, foam, carbon dioxide, dry chemical, halogenated agents.

HAZARDOUS COMBUSTION PRODUCTS: Smoke and fumes, carbon monoxide, carbon dioxide.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SMALL SPILL: 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.

LARGE SPILL: Notify proper authorities.

Leaks/spills immediately to prevent soil or water contamination. Empty container retains product residue. Observe all hazard precautions. Do not reuse, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container by puncture or otherwise destroy empty container before disposal.

SECTION VII - HANDLING AND STORAGE

HANDLING: Product is highly hygroscopic. Keep container closed tightly.

STORAGE: Follow normal storage practices. No special storage requirements necessary.

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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation is recommended.

PERSONAL PROTECTION: Use chemical impervious gloves and apron, chemical goggles or full face shield. Respiratory protection is not normally needed under proper conditions of use and storage. Use MSHA - NIOSH approved respirator for organic vapors, dust and mists whose TLV is greater than 0.05 mg/m³.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE @ 20 C: <10
SPECIFIC GRAVITY (H₂O=1): 0.976
SOLUBILITY IN WATER: Insoluble
pH: ND

VAPOR DENSITY (Air=1): ND
EVAPORATION RATE (H₂O=1): NAP
VOC (LB/GAL): NAP
FREEZING POINT: NA

BOILING POINT: ND

APPEARANCE & ODOR: Clear yellow liquid; mild alcohol odor

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: None known.

MATERIALS TO AVOID: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: From combustion: smoke, carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

From preparation similar to polyol ester with antioxidant LD50: >2000 mg/kg (oral - rat)

SECTION XII - ECOLOGICAL INFORMATION

ID

SECTION XIII - DISPOSAL CONSIDERATIONS

Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Not regulated.

HAZARD CLASS: NA
IDENTIFICATION NUMBER: NA
DOT Emergency Guide #: NA
Reportable Quantity (RQ): NA
International: NA

SECTION XV - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): Not listed.

CAA TITLE III (Superfund Amendments and Reauthorization Act): Not listed.

CALIFORNIA PROPOSITION 65: Not listed.

SECTION XVI - OTHER INFORMATION

State Right-to-Know Programs: Not listed.

IFPA Ratings

Health: 1
Flammability: 1
Reactivity: 0

HMIS Protective Equipment: X See your supervisor

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