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Date Signed: 3-1-04

Transportation: Chemtrec

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MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

PRODUCT NAME: Cationic Injection Detergent
CHEMICAL NAME: Cationic Detergent
CAS NUMBER: MIXTURE
EMERGENCY TELEPHONE NUMBER: (618) 524-9394

II. COMPONENTS AND HAZARD INFORMATION

HAZARDOUS COMPONENT	CAS NO. OF COMPONENT	TLV OF COMPONENT	OSHA PEL	APPROXIMATE CONCENTRATION
Mineral Spirits	064742-88-7	100 ppm	100 ppm	25.0%
Perchloroethylene*	127-18-4	50 ppm	25 ppm	10.0%
Butyl Cellosolve	111-76-2	25 ppm	25 ppm	10.0%
Hexylene Glycol	107-41-5	25 ppm	25 ppm	5.0%

*IDENTIFIED AS A CARCINOGEN BY NTP

This product contains Perchloroethylene, which is subject to the reporting requirements of SARA III.

D.O.T. Hazard Classification: Combustible Liquid NOS, (Contains Petroleum Distillates), NA 1993, PG III

Hazardous Materials Identification System (HMIS)

Health

2

Flammability

2

Reactivity

0

BASIS

Recommended by Laidlaw

TLV for Total Product

67 ppm

BASIS

Calculated TLV REF ACGIH

III. PHYSICAL DATA

Boiling Point 250°F Vapor Density Not determined.
Vapor Pressure Not determined. Percent Volatiles 100%
Specific Gravity 0.9500 Evaporation Rate Not determined.

IV. FIRE AND EXPLOSION DATA

Flash Point (°F TCC) 140°F
Extinguishing Media Alcohol foam, water fog, carbon dioxide or dry chemical.

Special Firefighting Procedures Self-contained breathing equipment with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards Vapors can be ignited by high energy source or other ignition sources at location distant from handling point.

National Fire Protection Association (NFPA) - Hazard Identification

Health

2

Flammability

2

Reactivity

0

BASIS

Recommended by Laidlaw

V. HEALTH HAZARD DATA

Effects of Overexposure:

Eyes: Can cause severe irritation, redness, tearing, blurred vision.

Skin: Prolonged or repeated contact can cause moderate irritation, defatting dermatitis.

Breathing: Nasal and respiratory irritation, dizziness, nausea and even asphyxiation.

Swallowing: Can cause nausea, vomiting and diarrhea. Asphyxiation of material into lungs can cause chemical pneumonitis, which can be fatal.

CATIONIC INJECTION DETERGENT

First Aid Procedures:

- Swallowing: Do not induce vomiting. Keep person warm and get medical attention.
- Skin: Thoroughly wash exposed area with soap and water.
- Inhalation: Remove to fresh air. If problem persists get medical attention.
- Eyes: Flush well with cool water. Prolonged irritation should seek medical advice.

Health studies have shown that health risks vary from person to person. As a precaution exposure to liquids, vapors, misty fumes or dust should be minimized.

VI. REACTIVITY DATA

- Hazardous Polymerization: Will not occur.
- Stability: Stable.
- Incompatibility: Avoid strong oxidizing agents.
- Hazardous Decomposition Products: May form toxic materials such as carbon monoxide, carbon dioxide and various hydrocarbons at high temperatures.

VII. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Absorb liquid on absorbent material and dispose of in accordance with local, state, and federal regulations. Small spills - mop up or soak up immediately. Remove to out of doors. Large spills - evacuate area. Contain liquid; transfer to closed metal containers. Keep out of water supply. Dispose of in a permitted hazardous waste management facility.

VIII. PROTECTION AND PRECAUTIONS

- Respiratory Protection: Approved respirator is advised if the TLV of product is exceeded.
- Ventilation: Provide sufficient ventilation to maintain exposure below TLV.
- Protective Gloves: Wear resistant gloves such as nitrile rubber.
- Eye Protection: Chemical splash goggles are advised.
- Other Protective Equipment: None.

IX. PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling and storing: Maintain good housekeeping. Avoid contact with eyes. Wash thoroughly after handling. Use with adequate ventilation.

The information and recommendations accumulated herein are to the best of Laidlaw's knowledge and belief, accurate and reliable as of the date issued. Laidlaw does not warrant or guarantee their accuracy or reliability, and shall not be liable for any loss or damage arising out of the use thereof.

HMIS and NFPA recommended ratings are based upon the criteria supplied by the developers of these rating systems together with Laidlaw's interpretation of the available data.