MATERIAL SAFETY DATA SHEET

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FREMONT 9132

SECTION I GENERAL INFORMATION

NAME ON LABEL (Identity): FREMONT 9132 Inhibited Ethylene Glycol
CHEMICAL FAMILY: Glycol
HMIS HAZARD CODES: Health (3) Flammability (1) Reactivity (0)
NFPA HAZARD CODES: Health (1) Flammability (1) Reactivity (0) Special Hazard: NA
HAZARD RATING SCALE: 4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal

SECTION II HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS COMPOUNDS
(Chemical & Common Name(s))

*Ethylene Glycol

PERCENT
(OptionaL)
90-95

OSHA

PEL

ACGIH

TLV

c 50 ppm

c 50 ppm

CAS #

107-21-1

* Refer to Section IX.

NA = Not Applicable  NE = Not Established

SECTION III PHYSICAL DATA

BOILING POINT (°F): 379-401°F
VAPOR PRESSURE (mm Hg): < 0.10 @ 20°C
SOLUBILITY IN WATER: Complete
VAPOR DENSITY (Air = 1): 2.2
APPEARANCE AND ODOR: Clear pink liquid, mild odor.

SPECIFIC GRAVITY (H₂O = 1): 1.118
EVAPORATION RATE (BuAc = 1): < 1.00
MELTING POINT (°F): NE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): 232°F (T.C.C.)
FLAMMABLE LIMITS: LEL: NE UEL: NE
EXTINGUISHING MEDIA: Water fog, carbon dioxide, or dry chemical.
AUTO-IGNITION TEMPERATURE: NE

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear all protective equipment including self-contained breathing apparatus when exposed to smoke, fumes or hazardous decomposition products. Keep containers cool with water-spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Never use welding or cutting torch on or near drum as product or residue can ignite explosively.

SECTION V REACTIVITY DATA

STABILITY: Unstable ___ Stable ___ X ___
CONDITIONS TO AVOID: None
INCOMPATIBILITY (Materials to Avoid): Strong oxidizers.
HAZARDOUS POLYMERIZATION: Will Not Occur ___ May Occur _____
CONDITIONS TO AVOID: None
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon (e.g. carbon dioxide, carbon monoxide, etc.).

SECTION VI HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Inhalation, skin contact, eye contact.

HEALTH HAZARDS: Acute ___ May cause irritation or burns to skin, eyes, mucous membranes, and respiratory tract. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea if ingested.

Chronic ___ May cause damage to target organs (kidney, liver) and/or Central Nervous System.
SECTION VI  HEALTH HAZARD DATA (continued)

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: Yes ___ No X
NATIONAL TOXICOLOGY PROGRAM: Yes ___ No X
I.A.R.C. MONOGRAPHS: Yes ___ No X
OSHA: Yes ___ No X

SIGNS AND SYMPTOMS OF EXPOSURE: Reddening, burning or itching of skin; watering or blurring of eyes; breathing difficulties.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory or skin irritation; possible burns to eyes; breathing difficulties.

EMERGENCY AND FIRST AID PROCEDURES:

EYES:  Flush immediately with cool water for 15 minutes. If irritation persists, call physician.

SKIN:  Flush immediately with cool water for 15 minutes. Call physician immediately.

INHALATION:  Remove to fresh air. If any irritation persists, call physician immediately.

INGESTION:  If conscious, give 1-2 glasses of water and INDUCE VOMITING with syrup of Ipecac. Never give anything by mouth to an unconscious person. Call physician and/or Chemtrec immediately.

SECTION VII  PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb bulk spill on inert material and containerize. Spill may be slippery. Wear all protective equipment.

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Wear all protective equipment. Store away from and do not mix with oxidizing agents. Use with adequate ventilation. Add to water slowly.

OTHER PRECAUTIONS: Store at room temperature. Keep container closed when not in use.

SECTION VIII  SPECIAL PROTECTION INFORMATION AND CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type): NIOSH/MSHA approved for dusts, fumes, and mists (TC-21C-202, i.e. 3M #9920).

VENTILATION: LOCAL EXHAUST: Recommended
MECHANICAL (General): X
SPECIAL: NA
OTHER: NA

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Splash proof safety goggles or face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Full cover clothing, including long sleeves, rubber apron. Eye wash and safety shower in immediate vicinity.

WORK/HYGIENIC PRACTICES: Wear all protective equipment. Wash thoroughly after handling. Do not smoke near containers. Store away from food. Wash contaminated clothing before re-use.
## SECTION IX  REGULATORY INFORMATION

**CERCLA 40 CFR 302.4:** Ethylene glycol  
**RQ = 1.0 lbs.**

**SARA TITLE III:**
- Section 302/304: NA
- Section 311/312 Hazard Category: Acute/Chronic
- Section 313: *Denotes chemical subject to reporting requirements of Section 313 SARA Title III and 40 CFR 372.65.
  Threshold Quantity = 10,000 lbs./year.

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<th>Prepared by (Optional)</th>
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<tr>
<td>Bruce Busch (Chemist)</td>
<td>11-14-01</td>
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