

# MATERIAL SAFETY DATA SHEET



**FREMONT INDUSTRIES, INC.**  
4400 Valley Industrial Blvd. N.  
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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))	PERCENT (OPTIONAL) 90-95	OSHA PEL c 50 ppm	ACGIH TLV c 50 ppm	CAS # 107-21-1
*Ethylene Glycol				

NA = Not Applicable NE = Not Established

\* Refer to Section IX.

## 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 (H<sub>2</sub>O = 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

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.

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## 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.

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## 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.

Bruce Busch (Chemist)

11-14-01

NA

Prepared by (Optional)

Issue Date

Supersedes

We believe the information contained herein, including data, recommendations and other items set forth are reliable, but they are given without warranty of any kind, expressed or implied, as to the accuracy, completeness, dependability, or reliability thereof, except that such information is, to the best of Fremont's knowledge and belief, accurate as of the date indicated.