

5-31-05

# MATERIAL SAFETY DATA SHEET



**FREMONT INDUSTRIES, INC.**  
4400 Valley Industrial Blvd. N.  
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FREMONT 8570

## SECTION I GENERAL INFORMATION

NAME ON LABEL (Identity): FREMONT 8570 Steam Line Treatment  
CHEMICAL FAMILY: Base  
HMIS HAZARD CODES: Health (2) Flammability (2) Reactivity (0)  
NFPA HAZARD CODES: Health (2) Flammability (2) 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)	OSHA PEL	ACGIH TLV	CAS #
2-Diethylaminoethanol	10	10 ppm (50 mg/M <sup>3</sup> )	2 ppm	100-37-8
Cyclohexylamine	10	NE	10 ppm	108-91-8
Morpholine	10	20 ppm	20 ppm	110-91-8

NA = Not Applicable NE = Not Established

## SECTION III PHYSICAL DATA

BOILING POINT (°F): 212°F (or greater than)  
VAPOR PRESSURE (mm Hg): NE  
SOLUBILITY IN WATER: Complete  
VAPOR DENSITY (Air = 1): NE  
APPEARANCE AND ODOR: Clear to light amber colored liquid with an ammoniacal odor.  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 0.99  
EVAPORATION RATE (BuAc = 1): NE  
MELTING POINT (°F): NE

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): NE (T.C.C.)  
FLAMMABLE LIMITS: LEL: NE UEL: NE  
EXTINGUISHING MEDIA: Water spray, carbon dioxide, alcohol foam, 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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep metal containers cool with water spray.

## SECTION V REACTIVITY DATA

STABILITY: Unstable  Stable   
CONDITIONS TO AVOID: Strong acids, extreme heat.  
INCOMPATIBILITY (Materials to Avoid): Oxidizing agents.  
HAZARDOUS POLYMERIZATION: Will Not Occur  May Occur   
CONDITIONS TO AVOID: None known.  
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

## SECTION VI HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Contact with skin, eyes, and mucous membranes. Inhalation. Absorption through skin.  
HEALTH HAZARDS: Acute - Irritation or burns to skin, mucous membranes, respiratory tract, and especially eyes.  
Chronic - Severe burns or ulceration of body tissues.

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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. Contact physician immediately.

SKIN: Remove contaminated clothing. Flush affected area with cool water for 15 minutes. Contact physician for persistent irritation.

INHALATION: Remove to fresh air. Contact physician for persistent irritation.

INGESTION: DO NOT INDUCE VOMITING. Give large volumes of water. Contact physician and/or Chemtrec immediately.

## SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear all protective equipment. Contain spill and absorb on inert material (i.e. vermiculite). Containerize. Flush remainder to drain with excess water, maintaining discharge pH limits. Use adequate ventilation.

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. Use with adequate ventilation. Store away from high heat or ignition sources. Store away from oxidizers.

OTHER PRECAUTIONS: Keep container closed when not in use. Wash thoroughly after handling. Mist is irritating. Store at room temperature.

## SECTION VIII SPECIAL PROTECTION INFORMATION AND CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type): NIOSH/MSHA approved for amine and ammonia vapors (TC-23C-217, i.e. 3M #8727).

VENTILATION:

LOCAL EXHAUST: Recommended

MECHANICAL (General): X

SPECIAL: NA

OTHER: NA

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Splash proof safety goggles or full face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Full cover clothing, including long sleeves. Eye wash 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: NA

### SARA TITLE III:

Section 302/304: Cyclohexylamine - RQ = 10,000 lbs. TPQ = 10,000 lbs.  
Section 311/312 Hazard Category: Acute  
Section 313: NA

Bruce Busch (Chemist)  
Prepared by (Optional)

2-15-02  
Issue Date

3-14-00  
Supersedes

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