MATERIAL SAFETY DATA SHEET

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FREMONT 9108

SECTION I GENERAL INFORMATION

NAME ON LABEL (Identity): FREMONT 9108 Cooling Water System Precleaner
CHEMICAL FAMILY: Base
HMIS HAZARD CODES: Health (3) Flammability (0) Reactivity (1)
NFPA HAZARD CODES: Health (3) Flammability (0) Reactivity (1) 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 #
Sodium Hydroxide	1	c 2 mg/M^3	c 2 mg/M^3	1310-73-2

NA = Not Applicable NE = Not Established

SECTION III PHYSICAL DATA

BOILING POINT (°F): >212°F
VAPOR PRESSURE (mm Hg): NE
SOLUBILITY IN WATER: Emulsifiable
VAPOR DENSITY (Air = 1): NE
APPEARANCE AND ODOR: Amber liquid, slight ammoniacal odor.
SPECIFIC GRAVITY (H_2O = 1): 1.07
EVAPORATION RATE (BuAc = 1): NE
MELTING POINT (°F): NE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): >212°F (T.C.C.)
FLAMMABLE LIMITS: LEL: NE UEL: NE
EXTINGUISHING MEDIA: Water fog, carbon dioxide, 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. Keep containers cool with water-spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V REACTIVITY DATA

STABILITY: Unstable ____ Stable __X__
CONDITIONS TO AVOID: None
INCOMPATIBILITY (Materials to Avoid): Strong acids, strong oxidizers.
HAZARDOUS POLYMERIZATION: Will Not Occur __X__ May Occur ____
CONDITIONS TO AVOID: None
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

SECTION VI HEALTH HAZARD DATA

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

HEALTH HAZARDS: Acute - May cause severe irritation or burns to skin, eyes, mucous membranes, and respiratory tract.

Chronic - May cause ulceration or destruction 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. Call physician immediately.

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: DO NOT INDUCE VOMITING. If conscious, give 1 to 2 glasses water and/or milk. Call physician and/or Poison Control Center 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. Neutralize residue with weak acid and flush to drain with plenty of water. 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 strong acids or 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-84A-0120; e.g. 3M #8210 or #8511 N-95 particulate respirator).

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: Sodium Hydroxide - RQ = 1,000 lbs. Product - RQ = 100,000 lbs.

SARA TITLE III:

Section 302/304: NA
Section 311/312 Hazard Category: Acute
Section 313: NA

Bruce Busch (Chemist)	4/5/05	2/8/01
Prepared by (Optional)	Issue Date	Supersedes

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