MATERIAL SAFETY DATA SHEET

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FREMONT 9920

SECTION I GENERAL INFORMATION

NAME ON LABEL (Identity): FREMONT 9920 Closed System Treatment
CHEMICAL FAMILY: Base
HMIS HAZARD CODES: Health (3) Flammability (0) Reactivity (2)
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	2	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: Complete
VAPOR DENSITY (Air = 1): NE
APPEARANCE AND ODOR: Pink-red colored liquid, sweet odor.

SPECIFIC GRAVITY (H_2O = 1): 1.09
EVAPORATION RATE (BuAc = 1): NE
MELTING POINT (°F): NE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): Nonflammable (T.C.C.)
FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: As recommended for primary source of fire.
AUTO-IGNITION TEMPERATURE: NA

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: None

SECTION V REACTIVITY DATA

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

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. Contact 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 large amounts of water, citrus juice, or 1:1 vinegar/water solution. 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. 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 = 50,000 lbs.

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

Bruce Busch (Chemist)	4/5/05	10/12/00
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.

Fremont Industries

FREMONT 9920
CLOSED SYSTEM TREATMENT

Fremont 9920 is a non-nitrite alternative to effective corrosion and scale control in closed heating and cooling systems. Fremont 9920 employs a synergistic blend of organic polymers as well as triazole copper component corrosion inhibitor. This cost saving formulation is effective at low dosages. Fremont 9920 is compatible with glycol and alcohol containing systems. Built into Fremont 9920 is a pH and concentration color indicator. This color indicator enables concentrations to be easily determined and warns if a corrosive non-alkaline pH occurs.

Fremont 9920 is authorized by the USDA for use in federally inspected meat and poultry plants.

PHYSICAL CHARACTERISTICS:

Form:	Liquid
Color:	Pink
Weight per gal.	9.09 lbs./gal.
Specific gravity:	1.09
1% pH:	9-10
Freeze thaw stability:	Excellent

DOSAGE: Proper dosage of Fremont 9920 varies with system parameters present. Dosage is generally between 1 and 3 gallons Fremont 9920 per 1000 gallons system water. Consult your Fremont Account Manager for exact dosage required.

HAZARDS: Fremont 9920 is slightly alkaline and may cause irritation to eyes and skin.

CAUTION: Alkalinity irritating to skin, eyes and nose. Harmful if ingested. Wear safety glasses and gloves when handling concentrate.

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Fargo • Fayetteville • El Paso • Indianapolis • Iowa City • Kansas City • Lancaster • Los Angeles
Milwaukee • Nashville • San Francisco • Sioux Falls • Tampa

FIRST AID: Skin - wash with soap and water, if irritation develops see physician. Eyes - flush with plenty of water for 15 minutes and see physician immediately. Inhalation - drink plenty of water and/or citrus juice and see physician immediately.

STORAGE AND HANDLING: Wear protective equipment when handling concentrate. Avoid freezing; if frozen, slowly return to room temperature and stir well to dissolve before using. Keep container closed when not in use.

EXTENT OF WARRANTY

Important Notice to Purchaser (and/or User) Fremont makes no warranty of any kind, expressed or implied, except that the materials sold hereunder shall be of Fremont's standard quality, and Buyer assumes all risk and liability whatsoever, resulting from the use of such materials, whether used singly or in combination with other substances. This product is NOT for home use - it is for Industrial use only!

This product is NOT to be repackaged for resale without the expressed knowledge and written permission of the manufacturer and without proper and approved warning statements.

Issued 2-7-98, supersedes 4-5-95 - Lab

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