MATERIAL SAFETY DATA SHEET

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FREMONT 9117

SECTION I GENERAL INFORMATION

NAME ON LABEL (Identity): FREMONT 9117 Microbiocide
CHEMICAL FAMILY: Acid
HMIS HAZARD CODES: Health (3) Flammability (0) Reactivity (1)
NFPA HAZARD CODES: Health (3) Flammability (0) 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 #
Methylene Bis (Thiocyanate)	2.5	NE	NE	6317-18-6
2-(Thiocyanomethylthio) Benzothiazole	2.5	NE	NE	21564-17-0

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: Dark brown liquid, sweet solvent odor.

SPECIFIC GRAVITY (H_2O = 1): 0.96
EVAPORATION RATE (BuAc = 1): NE
MELTING POINT (°F): NE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): 138°F (T.O.C.)
FLAMMABLE LIMITS: LEL: NE UEL: NE
EXTINGUISHING MEDIA: As recommended for primary source of fire.
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 bases.
HAZARDOUS POLYMERIZATION: Will Not Occur __X__ May Occur ____
CONDITIONS TO AVOID: None
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulfur, hydrogen sulfide.

SECTION VI HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Inhalation, contact with skin and eyes.

HEALTH HAZARDS: Acute - May cause respiratory irritation.

Chronic - May ulcerate and ultimately destroy 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: Redness of skin, itching or burning of skin, watering or burning of eyes, difficulty in breathing.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May cause skin and eye irritation. May burn eyes. May irritate respiratory tract. Harmful if swallowed.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush immediately with cool water for 15 minutes. Contact physician immediately.

SKIN: Remove contaminated clothing. Flush affected area for 15 minutes with cool water. Call physician if irritation persists.

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

INGESTION: If conscious, drink 2 glasses of water and INDUCE VOMITING. 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 onto inert material such as sand or vermiculite and containerize. Flush remaining residue to drain with copious amounts of water.

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 when handling. Wash after handling.

OTHER PRECAUTIONS: Use adequate ventilation. Mist is irritating. Keep container closed when not in use. Wash or discard contaminated clothing. Avoid freezing.

SECTION VIII SPECIAL PROTECTION INFORMATION AND CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type): NIOSH/MSHA approved respirator for organic vapors (TC-23C-446; e.g. 3M Series 7000 respirator with 7253 cartridges).

VENTILATION: LOCAL EXHAUST: Recommended
MECHANICAL (General): Recommended SPECIAL: None OTHER: None

PROTECTIVE GLOVES: Rubber gloves.

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

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

WORK/HYGIENIC PRACTICES: Store away from food. Wash after handling and before eating. Wear all protective equipment. Do not ingest. Keep out of reach of children.

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SECTION IX REGULATORY INFORMATION

CERCLA 40 CFR 302.4: NA

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

Bruce Busch (Chemist)	4/5/05	2/17/99
Prepared by (Optional)	Issue Date	Supersedes

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