

MATERIAL SAFETY DATA SHEET



FREMONT INDUSTRIES, INC.
4400 Valley Industrial Blvd. N.
P.O. Box 67
Shakopee, MN 55379-1859

PHONE: (952) 445-4121
FAX: (952) 496-3027
EMERGENCY PHONE: (952) 445-4121
CHEMTREC: (800) 424-9300

FREMONT 9115

SECTION I GENERAL INFORMATION

NAME ON LABEL (Identity): FREMONT 9115 Bromine Tablets
CHEMICAL FAMILY: Oxidizer
HMIS HAZARD CODES: Health (3) Flammability (0) Reactivity (2)
NFPA HAZARD CODES: Health (3) Flammability (0) Reactivity (2) 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 #
1-Bromo-3-chloro-5, 5-dimethyl-hydantoin	92.5	NE	NE	16079-88-2

NA = Not Applicable NE = Not Established

SECTION III PHYSICAL DATA

BOILING POINT (°F): NA	SPECIFIC GRAVITY (H ₂ O = 1): Unknown
VAPOR PRESSURE (mm Hg): NA	EVAPORATION RATE (BuAc = 1): NA
SOLUBILITY IN WATER: 0.15 g/100 ml @ 25°C	MELTING POINT (°F): Approx. 320
VAPOR DENSITY (Air = 1): NA	
APPEARANCE AND ODOR: Off-white tablets, faint halogen odor.	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): NA
FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: As recommended for primary source of fire.
AUTO-IGNITION TEMPERATURE: Not available.

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
CONDITIONS TO AVOID: None
INCOMPATIBILITY (Materials to Avoid): Organic chemicals and any other readily oxidizable materials, strong reducing agents.
HAZARDOUS POLYMERIZATION: Will Not Occur May Occur
CONDITIONS TO AVOID: None
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen bromide, bromine, hydrogen chloride, chlorine.

SECTION VI HEALTH HAZARD DATA

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

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

MATERIAL SAFETY DATA SHEET



FREMONT INDUSTRIES, INC.
4400 Valley Industrial Blvd. N.
P.O. Box 67
Shakopee, MN 55379-1859

PHONE: (952) 445-4121
FAX: (952) 496-3027
EMERGENCY PHONE: (952) 445-4121
CHEMTREC: (800) 424-9300

FREMONT 9115

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: Irrigate eyes with large volumes of room temperature water for at least 15 minutes, then seek medical attention promptly.

SKIN: Remove contaminated clothing immediately. Brush off excess chemical and wash skin with soap and large volumes of water for at least 15 minutes. If skin irritation develops, seek medical attention.

INHALATION: Remove to fresh air. If irritation persists, seek medical attention.

INGESTION: DO NOT INDUCE VOMITING. Do not drink alcohol. Drink at least 8 oz. of water (not to exceed 0.23 oz./lb. in a child). Call physician and/or Chemtrec immediately. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up spilled material and place in a clean, labeled, suitable container. Wear all protective equipment. Wash area of spill with large 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. Store away from and do not mix with reducing agents. Use with adequate ventilation.

OTHER PRECAUTIONS: Keep container closed when not in use. Store in a cool, dry, well ventilated area away from heat, open flames, organic chemicals and sunlight.

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.

MATERIAL SAFETY DATA SHEET



FREMONT INDUSTRIES, INC.

4400 Valley Industrial Blvd. N.
P.O. Box 67
Shakopee, MN 55379-1859

PHONE: (952) 445-4121

FAX: (952) 496-3027

EMERGENCY PHONE: (952) 445-4121

CHEMTREC: (800) 424-9300

FREMONT 9115

SECTION IX REGULATORY INFORMATION

CERCLA 40 CFR 302.4: NA

SARA TITLE III:

Section 302/304: NA

Section 311/312 Hazard Category: NA

Section 313: NA

Bruce Busch

2-8-05

2-22-00

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.