

BWT 4393

depending on
boiler load.

1 gal per week

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 BWT 4393

SECTION I GENERAL INFORMATION

NAME ON LABEL (Identity): FREMONT BWT 4393 Boiler Water 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 #

Potassium Hydroxide

7-13 w/w

NE

c 2 mg/M³

1310-58-3

NA = Not Applicable NE = Not Established

SECTION III PHYSICAL DATA

BOILING POINT (°F): 212°F

SPECIFIC GRAVITY (H₂O = 1): 1.13-1.17

VAPOR PRESSURE (mm Hg): NE

SOLUBILITY IN WATER: Complete

EVAPORATION RATE (BuAc = 1): NE

VAPOR DENSITY (Air = 1): NE

MELTING POINT (°F): NE

APPEARANCE AND ODOR: Brown liquid with sweet odor.

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

CONDITIONS TO AVOID: Contact with strong acids.

INCOMPATIBILITY (Materials to Avoid): Strong acids.

HAZARDOUS POLYMERIZATION: Will Not Occur May Occur

CONDITIONS TO AVOID: None

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and sulfur.

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.

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 BWT 4393

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.

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 BWT 4393

SECTION IX REGULATORY INFORMATION

CERCLA 40 CFR 302.4: Potassium Hydroxide - RQ = 1,000 lbs.

SARA TITLE III:

Section 302/304: NA

Section 311/312 Hazard Category: Acute

Section 313: NA

Bruce Busch (Chemist)

12/20/10

NA

Prepared by (Optional)

Issue Date

Supersedes

FREMONT'S PRODUCTS ARE SOLD "AS IS." FREMONT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO ITS PRODUCTS OR RELATED SERVICES. ALL SUCH EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE SPECIFICALLY DISCLAIMED.