

MATERIAL SAFETY DATA SHEET

FABRITEC INTERNATIONAL
 1157 INDUSTRIAL ROAD
 COLD SPRING, KY 41076
 EMERGENCY CONTACT: HAROLD E. MAINS (859) 781-8200
 CHEMTREC ASSISTANCE: (800) 262-8200 (U.S.A. & CANADA)

MSDS NO.: 6790
 DATE: FEB. 2008
 PAGE: 1 OF 2

1. PRODUCT NAME & HAZARD SUMMARY

6790 B.F.W.T. BOILER FEED WATER TREATMENT
 PRIMARY USE: BOILER ADDITIVE

NFPA HAZARD	RATING	SARA TITLE III, SECTION 313	CANADA (WHMIS)
HEALTH	2 MODERATE	APPLICABLE (X) Sodium Hydroxide	D2: CAUSING OTHER TOXIC
FIRE	0 MINIMAL	NOT APPLICABLE ()	EFFECTS
REACTIVITY	1 SLIGHT		

2. HAZARDOUS COMPONENTS	%	OSHA (PPM)	ACGIH (PPM)	LD 50 (MG/KG)
SODIUM HYDROXIDE C.A.S. #1310-73-2	≤ 1.0	PEL N.AV.	TWA STEL N.AV. N.AV.	CORROSIVE TO SKIN

INGREDIENTS NOT IDENTIFIED ARE NON-HAZARDOUS.

3. PHYSICAL & CHEMICAL DATA

APPEARANCE: CLEAR, WATER WHITE LIQUID	EVAPORATION RATE: EQUAL TO WATER
ODOR: MILD	VAPOR DENSITY (AIR =1): N.AP.
BOILING PT.: 212°F (100°C)	VAPOR PRESSURE (MM): N.AP.
FREEZING PT.: APPROX. 32°F (0°C)	SOLUBILITY IN WATER: COMPLETE
pH: 12.0 - 13.0	SPECIFIC GRAVITY (WATER = 1): 1.07
% VOLATILE: 90%	CO-EFFICIENT OF WATER/OIL DISTRIBUTION: N.AV.
ODOR THRESHOLD (PPM): N.AV.	

4. FIRE & EXPLOSION HAZARDS

FLASH POINT: None
 FLAMMABLE LIMITS IN AIR, % BY VOLUME: N.AP.
 FIRE FIGHTING MEDIA (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5): Dry chemical, CO₂, water spray or alcohol foam.
 SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus.
 UNUSUAL FIRE AND EXPLOSION: None
 HAZARDOUS COMBUSTION PRODUCTS: N.AP.
 CONDITIONS OF FLAMMABILITY: N.AP.
 AUTO IGNITION TEMP. (°C): N.AP.
 EXPLOSION DATA: - SENSITIVITY TO MECHANICAL IMPACT: N.AP.
 SENSITIVITY TO STATIC DISCHARGE: N.AP.

5. REACTIVITY HAZARD DATA

STABILITY (CONDITIONS TO AVOID): Stable
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids
 HAZARDOUS DECOMPOSITION PRODUCTS: N.AP.
 HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID): Will not occur

6. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION__X__ SKIN__X__ INGESTION_____

WARNING! MAY CAUSE EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Primary Irritation Score = 1 (Category IV, 40 CFR 156.10) per dermal administration (rabbits). This product is only a slight irritant.

SIGNS & SYMPTOMS OF EXPOSURE: (ACUTE & CHRONIC)

EYES: May cause eye irritation.
 SKIN: May cause skin irritation.
 INGESTION: May cause irritation of the mouth, throat, esophagus and stomach.

6. HEALTH HAZARD DATA (cont'd)

INHALATION: Mist may cause irritation to the upper respiratory tract.
 IRRITANCY OF PRODUCT: Not corrosive per DOT Hazardous Materials Regulation (49 CFR) rabbit tests.
 SENSITIZATION TO PRODUCT: N.AV.
 CARCINOGENICITY, REPRODUCTIVE TOXICITY, TERATOGENICITY, MUTAGENICITY: N.AV.
 TOXICOLOGICALLY SYNERGISTIC PRODUCTS: N.AV.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Remove contact lenses, if worn. Flush with water for at least 15 min. Call a physician.
 SKIN: Remove any contaminated clothing, wash area with water or soap and water for at least 15 minutes, get medical attention.
 INHALATION: Remove to fresh air. If breathing has stopped, perform artificial respiration. Oxygen may be administered, if available, get medical help.
 INGESTION: Do not induce vomiting, give large amounts of water. Give one ounce of vinegar in equal amount of water. Get medical attention immediately.

7. SPILL AND LEAK PROCEDURES

LARGE SPILLS: Caustic solution should be first neutralized with Acetic Acid and then diluted with water.
 SMALL SPILLS: Flush with water. Avoid body contact.
 WASTE DISPOSAL METHOD: May be considered a hazardous waste, dispose of according to all applicable regulations. May be flushed into sewer after neutralization.
 HANDLING PROCEDURES & EQUIPMENT: Avoid direct contact with product, use protective eye wear and gloves.
 STORAGE REQUIREMENTS: Store away from acids.

8. SPECIAL PROTECTION, PREVENTATIVE MEASURES/IN CASE OF LARGE SPILL OR FIRE

ENGINEERING CONTROLS/VENTILATION: Local exhaust system.

RESPIRATOR: THE FOLLOWING RESPIRATORS ARE RECOMMENDED & RANKED IN ORDER FROM MIN. TO MAX. PROTECTION:

CHEMICAL CARTRIDGE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE WITH A FULL FACE PIECE.
 GAS MASK WITH ORGANIC VAPOR CANISTER WITH A FULL FACE PIECE.
 TYPE 'C' SUPPLIED-AIR RESPIRATOR WITH FULL FACE PIECE.
 SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE OPERATED IN PRESSURE-DEMAND

PERSONAL PROTECTIVE EQUIPMENT: Wear goggles when handling product.

9. TRANSPORTATION DATA

DOT HAZARD CLASSIFICATION 49 CFR 172.101: None, not regulated.
 DOT LABEL: None
 U.N./IATA: Not regulated

10. STATE RIGHT TO KNOW INFORMATION

WATER-C.A.S. #7732-18-5, SODIUM SULFITE-C.A.S. #7757-83-7,
 TETRA SODIUM ETHYLENE DIAMINE TETRA ACETATE-C.A.S. #64-02-8, SODIUM HYDROXIDE-C.A.S. #1310-73-2

ABBREVIATIONS:

OSHA = Occupational Safety & Health Administration
 TWA = Time Weighted Average for 8 Hours
 Mg/M³ = Milligrams per Cubic Meter of Air
 NFPA = National Fire Protection Agency
 (C) = Ceiling, Limit for Exposure
 DOT = Department of Transportation
 MG/KG = Milligrams per Kilogram (1,000 grams)
 WHMIS = Workplace Hazardous Materials Information System - Canada
 ACGIH = American Conference of Government Industrial Hygienists
 R.Q. = Amount of spill that must be reported to EPA
 SARA Title III, Sec. 313 = Superfund Amendments and Reauthorization Act

C.A.S. = Chemical Abstract Service Number
 LD 50 = Lethal Dose for 50% Test Animals
 PEL = Permissible Exposure Level
 STEL = Short Term Exposure Level (15 min)
 ppm = part(s) per million
 SKN = Skin Effects
 IATA = International Air Transport Association
 N.AV. = Not Available
 N.AP. = Not Applicable
 U.N. = United Nations

WE CANNOT ANTICIPATE ALL CONDITIONS UNDER WHICH THIS INFORMATION AND OUR PRODUCTS, OR THE PRODUCTS OF OTHER MANUFACTURERS IN COMBINATION WITH OUR PRODUCTS, MAY BE USED. WE ACCEPT NO RESPONSIBILITY FOR RESULTS OBTAINED BY THE APPLICATION OF THIS INFORMATION OR THE SAFETY AND SUITABILITY OF OUR PRODUCTS, EITHER ALONE OR IN COMBINATION WITH OTHER PRODUCTS. WE SELL THE PRODUCTS WITHOUT WARRANTY, AND BUYERS AND USERS ASSUME ALL RESPONSIBILITY AND LIABILITY FOR LOSS OR DAMAGE ARISING FROM THE HANDLING AND USE OF OUR PRODUCTS, WHETHER ALONE OR IN COMBINATION WITH OTHER PRODUCTS.