

MATERIAL SAFETY DATA SHEET

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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 CFR172.101: 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	C.A.S. = Chemical Abstract Service Number
TWA = Time Weighted Average for 8 Hours	LD 50 = Lethal Dose for 50% Test Animals
Mg/M ³ = Milligrams per Cubic Meter of Air	PEL = Permissible Exposure Level
NFPA = National Fire Protection Agency	STEL = Short Term Exposure Level (15 min)
(C) = Ceiling, Limit for Exposure	ppm = part(s) per million
DOT = Department of Transportation	SKN = Skin Effects
MG/KG = Milligrams per Kilogram (1,000 grams)	IATA = International Air Transport Association
WHMIS = Workplace Hazardous Materials Information System - Canada	N.AV. = Not Available
ACGIH = American Conference of Government Industrial Hygienists	N.AP. = Not Applicable
R.Q. = Amount of spill that must be reported to EPA	U.N. = United Nations
SARA Title III, Sec. 313 = Superfund Amendments and Reauthorization Act	

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