

MATERIAL SAFETY DATA SHEET

BFW 0110

Latest Revision Date: 12/24/02

SECTION 1 MANUFACTURER INFORMATION

HYDRO-ZONE, INC.
17800 Telegraph Road
Romulus, MI 48174
Phone: (734) 247-4488

EMERGENCY CONTACT:
(800) 255-3924

SECTION 2 PRODUCT IDENTIFICATION

PRODUCT NUMBER.....0110
TRADE NAME OR CHEMICAL NAME.....BFW 0110
SYNONYMS.....NA
CHEMICAL FAMILY.....Internal Boiler Treatment
NFPA- HEALTH HAZARD.....2
FIRE HAZARD.....0
REACTIVITY HAZARD.....0
NFPA SCALE.....4= EXTREME 3=HIGH 2=MODERATE 1=SLIGHT 0=INSIGNIFICANT
KEY.....NA= Not Applicable NF= Not Determined

SECTION 3 HAZARDOUS IDENTIFICATION

<u>CHEMICAL NAME(S)</u>	<u>CAS NUMBER</u>	<u>% WT.</u>	<u>TLV-TWA</u>	<u>PEL</u>	<u>SEC. 313</u>	<u>CARCINOGEN?</u>
Sodium hydroxide	1310-73-2	<5	2 mg/M ³	2 mg/M ³	No	No
Cyclohexylamine	108-91-8	<5	10 ppm	10 ppm	No	No
Diethylaminoethanol	100-37-8	<5	10 ppm	10 ppm	No	No

SECTION 4 SHIPPING DATA

D.O.T. PROPER SHIPPING NAME.....Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium hydroxide, Potassium hydroxide)
D.O.T. HAZARD CLASS.....Corrosive Material Class 8
D.O.T. LABELS REQUIRED.....Corrosive
UN/NA I.D. NUMBER.....UN 3266
PACKAGING GROUP.....II
NON-BULK SHIPPING NAME.....Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium hydroxide), 8, UN 3266, PG II
BULK SHIPPING NAME.....Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium hydroxide), 8, UN 3266, PG II,
RQ (If 20,000 lbs. or more in one package)

SECTION 5 PHYSICAL DATA

BOILING/ FREEZING POINT @ 760 mmHg.....212°F (100 °C)/ <32°F (<0°C)
pH.....13.2
VAPOR PRESSURE mmHg @ 20°C.....ND
VAPOR DENSITY (Air=1).....ND
PERCENT VOLATILE BY WEIGHT (%).....65
SPECIFIC GRAVITY @20°C.....1.13
SOLUBILITY IN WATER.....Complete
EVAPORATION RATE.....(Water=1) <1
APPEARANCE AND ODOR.....Black liquid with characteristic amine odor.

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SECTION 6 **FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (PENSKY-MARTEN C.C.).....NA
AUTOIGNITION TEMPERATURE.....NA
FLAMMABILITY LIMITS IN AIR (% V).....NA
EXTINGUISHING MEDIA.....Not Combustible
SPECIAL FIRE FIGHTING PROCEDURES.....Material is strongly alkaline. Beware of exploding drums.
UNUSUAL FIRE & EXPLOSION HAZARDS.....NA

SECTION 7 **REACTIVITY DATA**

PRODUCT STABILITY.....Stable
 Conditions To Avoid.....NA
CHEMICAL INCOMPATIBILITY.....Strong acids
HAZARDOUS DECOMPOSITION PRODUCTS.....NA
HAZARDOUS POLYMERIZATION.....Will Not Occur

SECTION 8 **HEALTH HAZARD DATA**

SKIN CONTACT.....Extended contact will be corrosive to the skin.
EYE CONTACT.....Immediate irritation of corneal tissues, which can result in chemical burns.
INHALATION.....Not a likely route of exposure.
INGESTION.....Corrosive to esophageal linings.

SECTION 9 **EMERGENCY AND FIRST AID PROCEDURES**

SKIN.....Remove contaminated clothing and flush exposed skin with soap and water. If
 If irritation persists or develops, get medical attention. Launder contaminated
 clothing before reuse.
EYES.....Immediately flush eyes with large amounts of water for 15 minutes and seek
 medical attention.
INGESTION.....If swallowed, DO NOT INDUCE VOMITING. Seek medical attention
 immediately.
INHALATION.....Move to fresh. Aid in breathing, if necessary, seek medical attention.

SECTION 10 **ENVIRONMENTAL DATA**

SPILL OR LEAK PROCEDURES.....Avoid skin contact. Neutralize with appropriate material and absorb with sand or
 inert material. Place in suitable container for disposal. Flush residues to sanitary
 sewer.
WASTE DISPOSAL METHOD.....Corrosive. Dispose of in accordance with all federal, state and local regulations.
HAZARDOUS WASTE 40CFR261.....Yes. Hazardous Waste Number: D002
CONTAINER DISPOSAL.....Empty containers may contain residuals. Thoroughly clean, then offer for recycling,
 reuse or disposal in accordance with governmental regulations.

SECTION 11 **SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION.....Respirator not required with most applications.
VENTILATION.....Local exhaust is generally sufficient to minimize exposure.
PROTECTIVE CLOTHING.....Neoprene gloves, apron, boots----as necessary, to prevent skin contact.
EYE PROTECTION.....Chemical goggles.
OTHER PRECAUTIONS.....Safety shower and eyewash fountains should be easily accessible.

SECTION 12 **SUPPLIER INFORMATION**

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of manufacturer. The data on this sheet relates only to the specific material designated herein. Manufacturer assumes no legal responsibility for use or reliance upon this data.