

# MATERIAL SAFETY DATA SHEET

## BFW 0108C

Latest Revision Date: 01/24/03

### SECTION 1 MANUFACTURER INFORMATION

HYDRO-ZONE, INC.  
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### SECTION 2 PRODUCT IDENTIFICATION

PRODUCT NUMBER.....0108C  
TRADE NAME OR CHEMICAL NAME.....BFW 0108C  
SYNONYMS.....NA  
CHEMICAL FAMILY.....Internal Boiler Treatment  
NFPA- HEALTH HAZARD.....3  
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>
Potassium hydroxide	1310-58-3	<5	2 mg/M <sup>3</sup>	2 mg/M <sup>3</sup>	No	No
Sodium hydroxide	1310-73-2	<10	2 mg/M <sup>3</sup>	2 mg/M <sup>3</sup>	No	No
Cyclohexylamine	108-91-8	<2	10 ppm	10 ppm	No	No
Diethylaminoethanol	100-37-8	<5	10 ppm	10 ppm	No	No
Morpholine	110-91-8	<5	20 ppm	20 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, Potassium hydroxide), 8,  
UN 3266, PG II  
BULK SHIPPING NAME.....Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium hydroxide, Potassium hydroxide), 8,  
UN 3266, PG II, RQ (If 7,500 lbs. or more in one package)

### SECTION 5 PHYSICAL DATA

BOILING/ FREEZING POINT @ 760 mmHg.....212°F (100 °C)/ <32°F (<0 °C)  
pH.....13.0  
VAPOR PRESSURE mmHg @ 20°C.....ND  
VAPOR DENSITY (Air=1).....ND  
PERCENT VOLATILE BY WEIGHT (%).....75  
SPECIFIC GRAVITY @20°C.....1.01  
SOLUBILITY IN WATER.....Complete  
EVAPORATION RATE.....(Water=1) <1  
APPEARANCE AND ODOR.....Black liquid with 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.....May be destructive to eye tissue on contact.  
INHALATION.....Mists and vapors are irritating to the respiratory system.  
INGESTION.....Corrosive to lining of esophagus.

### **SECTION 9** **EMERGENCY AND FIRST AID PROCEDURES**

SKIN.....Remove contaminated clothing and flush exposed skin with soap and water. 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**

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