

**MATERIAL SAFETY DATA SHEET**

RETURN LINE TREATMENT 1110

Latest Revision Date...12/04/01

Print Date.....02/17/04

SECTION 1

MANUFACTURER INFORMATION

HYDRO-ZONE, INC.  
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EMERGENCY CONTACT:  
(800) 255-3924

SECTION 2

PRODUCT IDENTIFICATION

PRODUCT NUMBER..... HZ 1110  
TRADE NAME OR CHEMICAL NAME... RETURN LINE TREATMENT 1110  
SYNONYMS..... NA  
CHEMICAL FAMILY..... Internal Boiler Condensate Treatment  
NFPA - HEALTH HAZARD..... 2  
    FIRE HAZARD..... 0  
    REACTIVITY HAZARD..... 1  
NFPA SCALE..... 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant  
KEY..... NA= Not Applicable ND= Not Determined

SECTION 3

HAZARDOUS INGREDIENTS

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL	SEC.313	CARCINOGEN?
Morpholine	110-91-8	<15	20 ppm	20 ppm	No	No
Cyclohexylamine	108-91-8	<15	10 ppm	10 ppm	No	No

SECTION 4

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME... NA  
D.O.T. HAZARD CLASS..... NA  
D.O.T. LABELS REQUIRED..... NA  
UN/NA I.D. NUMBER..... NA  
PACKAGING GROUP..... NA  
NON-BULK SHIPPING NAME..... Compounds, Boiler Cleansing, Liquid  
BULK SHIPPING NAME..... Same

SECTION 5

PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... 210°F (99°C) / ND  
pH..... 10.3  
VAPOR PRESSURE mm Hg @20° C..... ND  
VAPOR DENSITY (Air = 1)..... >1  
PERCENT VOLATILE BY WEIGHT (%)..... 100  
SPECIFIC GRAVITY @20°C..... 1.005  
SOLUBILITY IN WATER..... Complete  
EVAPORATION RATE..... (Water=1) 1  
APPEARANCE AND ODOR..... Colorless to straw yellow liquid with strong fishy odor.

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SECTION 6 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... NA  
AUTOIGNITION TEMPERATURE..... NA  
FLAMMABILITY LIMITS IN AIR (% V)... NA  
EXTINGUISHING MEDIA..... Not combustible  
SPECIAL FIRE FIGHTING PROCEDURES... Wear self-contained breathing apparatus.  
UNUSUAL FIRE & EXPLOSION HAZARDS... NA

SECTION 7 REACTIVITY DATA

PRODUCT STABILITY..... Stable  
Conditions to Avoid..... NA  
CHEMICAL INCOMPATIBILITY..... Strong acids  
HAZARDOUS DECOMPOSITION PRODUCTS... Oxides of carbon and nitrogen may be formed in burning conditions.  
HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8 HEALTH HAZARD DATA

SKIN CONTACT... May cause skin irritation. Can cause skin sensitization.  
EYE CONTACT... May cause irritation. Permanent eye injury possible.  
INHALATION..... Corrosive to mucousal membranes. Nausea, irritation, lightheadedness, drowsiness, possible anxiety.  
INGESTION..... Corrosive to mucous membranes, possible severe gastric irritation.

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 get medical attention.  
INGESTION....If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.  
INHALATION...Move to fresh air. Aid in breathing, if necessary, and get medical attention.

SECTION 10 ENVIRONMENTAL DATA

SPILL OR LEAK PROCEDURES... Keep upwind. Avoid skin contact. Absorb spills with sand or inert material and place in suitable containers for disposal. Flush residues with large amounts of water to sanitary sewer.  
WASTE DISPOSAL METHOD..... Dispose of in accordance with all federal, state and local regulations.  
HAZARDOUS WASTE 40CFR261... NA  
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.....NIOSH/MSHA approved can or cartridge respirator for gas and vapor as needed to maintain P.E.L.  
VENTILATION.....Local and/or mechanical exhaust to maintain exposure below P.E.L.  
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.