

MATERIAL SAFETY DATA SHEET

CLOSED LOOP TREATMENT 4111 B

Latest Revision Date...07/19/06

Print Date.....03/26/07

SECTION 1

MANUFACTURER INFORMATION

HYDRO-ZONE INC.
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Romulus, Michigan 48174
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FOR CHEMICAL EMERGENCY
CALL INFOTRAC @ 1-800-535-5053
24 HRS/DAY, 7 DAYS/WEEK

SECTION 2

PRODUCT IDENTIFICATION

PRODUCT NUMBER..... HZ 4111B
TRADE NAME OR CHEMICAL NAME... CLOSED LOOP TREATMENT 4111 B
SYNONYMS..... Liquid Nitrite
CHEMICAL FAMILY..... Corrosion Inhibitor
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 ND= Not Determined

SECTION 3

HAZARDOUS INGREDIENTS

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL	SEC.313	CARCINOGEN?
Sodium Nitrite	7632-00-0	<15	Not Established	Not Established	Yes	No
Sodium Hydroxide	1310-73-2	<2	2 mg/m3	2 mg/m3	No	No

SECTION 4

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME... Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Nitrite)
D.O.T. HAZARD CLASS..... Class 9
D.O.T. LABELS REQUIRED..... Miscellaneous
UN/NA I.D. NUMBER..... UN 3082
PACKAGING GROUP..... III
NON-BULK SHIPPING NAME..... Compound, Industrial Process Water Treating, Liquid
BULK SHIPPING NAME..... Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Nitrite), 9, UN 3082, PG III, RQ
(If 800 lbs. or more in one package)

SECTION 5

PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... 215°F (102°C) / ND
pH..... 11.8
VAPOR PRESSURE mm Hg @20° C..... ND
VAPOR DENSITY (Air = 1)..... ND
PERCENT VOLATILE BY WEIGHT (%)..... 85
SPECIFIC GRAVITY @20°C..... 1.12
SOLUBILITY IN WATER..... Complete
EVAPORATION RATE..... (Water=1) <1
APPEARANCE AND ODOR..... Yellow-green liquid with characteristic odor.

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... NA

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SECTION 6

FIRE AND EXPLOSION HAZARD DATA

CONT'D

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... Oxides of nitrogen may be liberated in hot fire.

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY..... Stable
Conditions to Avoid..... Do not mix with acidic materials, oxides of nitrogen can be evolved.
CHEMICAL INCOMPATIBILITY..... Strong acids, strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS... Oxides of nitrogen
HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8

HEALTH HAZARD DATA

SKIN CONTACT... Can cause irritation from alkali constituents.
EYE CONTACT.... Can cause irritation and permanent injury if not rinsed immediately.
INHALATION.... Not a likely route of exposure.
INGESTION..... May cause irritation, internal injury.

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, 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 contact with material. Absorb with sand or inert material and place in suitable container for proper disposal. Do not flush into waterways.
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.....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.