

MATERIAL SAFETY DATA SHEET

MICROBIOCIDIC 2110

Latest Revision Date...07/19/06

Print Date.....02/22/07

SECTION 1

MANUFACTURER INFORMATION

HYDRO-ZONE, INC.
17800 Telegraph Road
Romulus, Michigan 48174
Ph. (734) 247-4488

FOR CHEMICAL EMERGENCY
CALL INFOTRAC @ 1-800-535-5053
24 HRS/DAY, 7 DAYS/WEEK

SECTION 2

PRODUCT IDENTIFICATION

PRODUCT NUMBER..... HZ 2110
TRADE NAME OR CHEMICAL NAME... MICROBIOCIDIC 2110
SYNONYMS..... NA
CHEMICAL FAMILY..... Halogenated Hydantoin
NFPA - HEALTH HAZARD..... 3
 FIRE HAZARD..... 1
 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

<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>
Bromochloro-5,5-Dimethylhydantoin	126-06-7	<65	0.2 mg/m3	Not Established	No	No
1,3 Dichloro-5,5-Dimethylhydantoin	118-52-5	<30	0.2 mg/m3	0.2 mg/m3	No	No
1,3 Dichloro-5-Ethyl-5-Methylhydantoin	89415-87-2	<15	0.2 mg/m3	0.2 mg/m3	No	No

SECTION 4

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME... Oxidizing Solid, N.O.S. (Bromo Chloro Dimethylhydantoin)
D.O.T. HAZARD CLASS..... Division 5.1
D.O.T. LABELS REQUIRED..... Oxidizer
UN/NA I.D. NUMBER..... UN 1479
PACKAGING GROUP..... II
NON-BULK SHIPPING NAME..... Oxidizing Solid, N.O.S. (Bromo Chloro Dimethylhydantoin), 5.1, UN 1479, PG II
BULK SHIPPING NAME..... NA

SECTION 5

PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... NA
pH..... NA
VAPOR PRESSURE mm Hg @20° C..... NA
VAPOR DENSITY (Air = 1)..... NA
PERCENT VOLATILE BY WEIGHT (%)..... <0.5
SPECIFIC GRAVITY @20°C..... NA
SOLUBILITY IN WATER..... 0.54 grams/100 gms @25°C
EVAPORATION RATE..... (BuAc=1) <1
APPEARANCE AND ODOR..... White to off-white briquette with very slight pungent odor.

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... Product decomposes at 329°F (165°C)

MICROBIOCIDES 2110

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

CONT'D

AUTOIGNITION TEMPERATURE..... NA
FLAMMABILITY LIMITS IN AIR (% V)... NA
EXTINGUISHING MEDIA..... Foam, dry chemical, water
SPECIAL FIRE FIGHTING PROCEDURES... Wear MSHA/NIOSH approved self-contained breathing apparatus and protective clothing.
UNUSUAL FIRE & EXPLOSION HAZARDS... May ignite combustible materials and produce noxious gases.

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY..... Stable
Conditions to Avoid..... None known
CHEMICAL INCOMPATIBILITY..... Strong acids or alkalis, high storage temperatures, moisture and oxidizable material.
HAZARDOUS DECOMPOSITION PRODUCTS... Thermal decomposition may produce toxic fumes and oxides of carbon and nitrogen.

SECTION 8

HEALTH HAZARD DATA

SKIN CONTACT... May result in severe irritation. Prolonged contact may produce irreversible damage.
EYE CONTACT.... Will result in severe irritation. Prolonged contact may produce irreversible cellular damage to the eye.
INGESTION..... Not a primary route of exposure.

SECTION 9

EMERGENCY AND FIRST AID PROCEDURES

SKIN.....Remove contaminated clothing and flush exposed skin with soap and water.
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.
INHALATION...Move to fresh air. Aid in breathing, if necessary, and get medical attention.

SECTION 10

ENVIRONMENTAL DATA

SPILL OR LEAK PROCEDURES... Sweep up material (avoid generating dust) and place in proper container for disposal.
WASTE DISPOSAL METHOD..... Pesticide. Toxic to fish. Do not discharge into waterways.
HAZARDOUS WASTE 40CFR261... This material is an EPA registered pesticide.
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 filter type mask for dusts, fumes and mists 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.