

Hydro-Zone, Inc.

17800 Telegraph Rd., Romulus, MI 48174 (734-247-4488)

Emergency Telephone No.: 800-535-5053

NFPA Hazard Rating:

Health - 1, Flammability - 0, Reactivity - 0

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION -----

Code, Trade Name: HZ030143, Total Chelant DT  
Chemical Name: Bismuth Nitrate & Nitric Acid in Water  
Chemical Family: Inorganic Acid & Salt in Water

IX. ENVIRONMENTAL PROTECTION -----

Spill Response: Neutralize with soda ash, absorb with sand or vermiculite and scoop up and containerize for proper disposal.

II. HAZARDOUS INGREDIENTS -----

\* Nitric Acid CAS #7697-37-2 <2% W/V  
TLV/PEL: 2 ppm (TWA) TXDS: unr-man LDLo: 110 mg/kg  
Bismuth Nitrate CAS #10035-06-0 0.5% W/V  
TLV/PEL: Not Established TXDS: ipr-mus LDLo: 2500 mg/kg  
Carcinogenicity: None of the above are listed (IARC).

Waste Disposal: Comply with all local, state and federal regulations.

\* Toxic chemical or chemicals subject to the reporting requirements of Section 313, SARA Title III.

III. HEALTH HAZARD DATA -----

Contact may cause permanent damage to eyes, severe burns, and ulcerations on skin. Inhalation may damage respiratory tract.

Routes of Entry: Inhalation, Ingestion.

The above information is to be used only as a guide, and does not profess to be all inclusive. Hydro-Zone, Inc. shall not be held liable for any damage resulting from the handling or contact with the above product.

First Aid:

Eyes: Flush with water for at least 15 min; get immediate medical assistance.

Skin: Remove contaminated clothing and wash with soap and water.

Inhalation: Move to fresh air & give artificial respiration if breathing has stopped.

Ingestion: Do not induce vomiting. Give water and get medical attention.

N/A = Not Available

Issue Date: 8/02

Revised:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE!

IV. PHYSICAL DATA -----

Boiling Point: N/A Specific Gravity: 1.00  
Vapor Density: N/A pH: N/A  
Water Solubility: Miscible  
Appearance & Odor: Clear, colorless liquid

V. FIRE & EXPLOSION HAZARD DATA -----

Flash Point: Nonflammable  
Extinguishing Media: Dry chemical  
Special Procedures: Wear self contained breathing apparatus, protective clothing and face shield.  
Unusual Fire & Explosion Hazards:  
Reacts with most metals to form hydrogen gas which can form explosive mixtures with air.

VI. REACTIVITY DATA -----

Conditions To Avoid: Heat and contact with bases, oxidizers, reducing agents, and metal powders.  
Hazardous Combustion & Decomposition Products: Toxic fumes.

VII. SPECIAL PROTECTION -----

Provide adequate general and local exhaust ventilation.  
Protect eyes and skin with safety goggles and gloves.  
Do not get in eyes, on skin or clothing.  
Wear self contained breathing apparatus in high vapor areas.  
Do not breathe vapors or mist.

VIII. HANDLING AND STORAGE PRECAUTIONS -----

Keep container tightly closed.  
Store in cool, dry, well ventilated area.  
Keep away from ignition source.  
Wash thoroughly after handling.  
Empty containers may be hazardous due to retained residue.

DOT - Corrosive Liquid, Acidic, Inorganic, N.O.S., UN3264 (II)  
(contains Nitric Acid)