



HYDRO-ZONE, INC.

17800 TELEGRAPH, ROMULUS, MI 48174
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EMERGENCY TELEPHONE NO.: (800) 535-5053

MATERIAL SAFETY DATA SHEET

NFPA Hazard Rating:

Health - 1
Flammability - 0
Reactivity - 0

I. GENERAL INFORMATION -----

Code, Trade Name: HZ200210, Thorium Nitrate, 1 dp=10 ppm
Chemical Name: Thorium Nitrate in Water
Chemical Family: Inorganic Salt in Water

II. HAZARDOUS INGREDIENTS -----

Thorium Nitrate, CAS #14767-04-5 1.1% W/V
TLV: Not Established TXDS: pir-rat LD50: 60 mg/kg
(Radioactive: 0.013 ucurie/100 gm)
Carcinogenicity: Not listed (IARC).

III. HEALTH HAZARD DATA -----

Toxic by ingestion and inhalation. Prolonged exposure to radioactive materials can cause blood disorders and leukemia.
Routes of Entry: Ingestion, Inhalation, Skin Contact.

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: If conscious, give 2 glasses of water and induce vomiting. Get medical attention.

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE!

IV. PHYSICAL DATA -----

Boiling Point: N/A Specific Gravity: 1.0
Vapor Density: 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 and protective clothing.

Unusual Fire & Explosion Hazards: Emits toxic fumes when heated to decomposition.

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VI. REACTIVITY DATA -----

Conditions To Avoid: Excessive heat, reducing agents.

Hazardous Combustion & Decomposition Products: NOx, Thorium

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, acids, oxidizers.

Wash thoroughly after handling.

Empty containers may be hazardous due to retained residue.

DOT - Not Regulated (Note: Final solution meets CFR,
Title 49, 173.403(y), material with uniform distribution
and specific activity of 0.002 ucurie/gm or less is not
classified as a radioactive material.)

IX. ENVIRONMENTAL PROTECTION -----

Spill Response: Absorb with sand or vermiculite and scoop up and
containerize for proper disposal.

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

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.

N/A = Not Available
Issue Date: 9/01
Revised: 02/03