

MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION

Trade Name:	Thallium Bromide	Synonym:	None Known
Chemical Family:	Metal halide	Formula:	TlBr

II HAZARDOUS INGREDIENTS

CAS #:7789-40-4

III PHYSICAL DATA

Boiling Point:	815	Melting Point:	480
Density:	7.557	Solubility in Water:	Very slightly
Appearance:	Yellow white crystalline solid	Reaction with Water:	None

IV FIRE AND EXPLOSION HAZARDS DATA

Flash Point (Method used): N/A	Autoignition Temperature: N/A
Flammable Limits: Upper: N/A Lower: N/A	

Extinguishing Media: Non-flammable solid.

Special Fire Fighting Procedures: Wear SCBA unit and fully encapsulated unit when fighting fires in which thallium may be involved.

Unusual Fire & Explosion: None

V HEALTH HAZARD INFORMATION

Toxicity Data: scu-mouse LD50: 29 mg/kg

Effects of Exposure:

Inhalation: Inhalation of thallium compounds can cause respiratory tract irritation, metallic taste and pulmonary edema. No other available on respiratory effects. Thallium is readily absorbed into the blood from inhalation.

Dermal/Eye Contact: A severe skin and eye irritant. Skin sensitization may occur.

Other (Specify): Thallium is extremely toxic and a cumulative poison. It can be absorbed through the skin. Acute and chronic effects include fatigue, limb pain, peripheral neuritis, joint pain, loss of hair, CNS effects, diarrhea, vomiting, liver and kidney damage.

Medical Conditions Generally Aggravated by Exposure: No data.

Carcinogenicity: None

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: Induce vomiting. Seek medical help.

EYES: Flush with water for at least 15 minutes. Get medical attention.

SKIN: Flush with soap and water. Observe for signs of Thallium poisoning.

INHALATION: Remove to fresh air. Seek medical help.

VI REACTIVITY DATA

Stability: Stable

Incompatibility (Material to Avoid): Strong acids.

Hazardous Decomposition Products: TI fume.

Hazardous Polymerization: Will not Occur

Conditions to Avoid: None

VII SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled: Vacuum using vacuum cleaner equipped with HEPA filter. Do not raise dust.

Waste Disposal Method: Dispose in an approved hazardous waste landfill.

VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Use only NIOSH approved equipment. Air purifying respirator approved for dusts, mists, fume, and acid gases.

Ventilation: Local Exhaust: To maintain exposure below TLV.

Mechanical: Not recommended

Special: Wash thoroughly after handling.

Eye Protection: Goggles.

Protective Gloves: Neoprene

Other Protective Equipment/Work Practice: Prevent skin contact and clothing contamination.

IX SPECIAL PRECAUTIONS

Precautionary to Be Taken in Handling and Storing: Keep container closed.

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