

PRMI

MATERIAL SAFETY DATA SHEET

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SECTION 1 Product Identification

CHEMICAL NAME: #3523 THALLIUM ROD
CAS#: 7440-28-0
FORMULA: TI
EINECS #: 231-138-1

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7440-28-0	100	0.1 mg/m ³	0.1 mg/m ³

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: DANGER! HIGHLY TOXIC Highly toxic by ingestion, inhalation, skin absorption. Danger of cumulative effects. Irritating to skin, eyes, mucous membranes.

PRIMARY ROUTES OF EXPOSURE: Inhalation, Ingestion, Skin absorption

EYE CONTACT: Causes irritation of the eyes.

SKIN CONTACT: Causes irritation to skin.

INHALATION: Causes irritation to respiratory system.

INGESTION: May be fatal if swallowed. Highly toxic

SUBACUTE AND CHRONIC TOXICITY: Main symptoms of thallium poisoning are peripheral neuropathy and loss of hair. Acute poisoning causes paresthesias, ataxia, alopecia, fever, coryza, abdominal pain, nausea and vomiting. Symptoms may progress to lethargy, speech disorders, tremors, convulsions, cyanosis, pulmonary edema, bronchopneumonia and death. Kidney, liver and brain damage can occur. Thallium poisoning during the first trimester of pregnancy can cause skeletal deformities, alopecia, low birth weight and premature birth. Chronic thallium poisoning may produce alopecia, salivation and a blue line on the gums. Damage to the gastrointestinal, endocrine system and kidneys may also occur.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible). Assure rinsing under eyelids. Consult a physician immediately.

SKIN EXPOSURE: Wash affected area with soap and water. Rinse skin thoroughly. Remove contaminated clothes if necessary. Seek immediate medical advice.

INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.

INGESTION: Seek competent medical assistance immediately. Keep the victim calm. Do not induce vomiting.

SECTION 5

Firefighting Measures

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Carbon dioxide, dry powder, foam or water spray.

SPECIAL FIREFIGHTING PROCEDURES: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit toxic metal oxide fumes.

UNUSUAL FIRE OR EXPLOSTION HAZARDS: None Known

SECTION 6

Accidental Release Measures

SPILL AND LEAK PROCEDURES: Isolate spillage. Evacuate unprotected persons. Use adequate protection when handling to avoid inhalation and contact with material. Sweep up trying not to raise dust, then place in applicable chemical waste container. Ensure adequate ventilation.

DISPOSAL: Retain all contaminated solage for removal and treatment. Dispose of in accordance with all waste disposal regulations.

SECTION 7

Handling and Storage

HANDLING AND STORAGE: Handle and store under protective gas. Keep container tightly closed. Store in a dry, well-ventilated area. Store away from oxidizing materials. Open and handle container in controlled environment. Air sensitive material.

SECTION 8

Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, faceshield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical resistant, impervious

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: If ventilation if not available, a high efficiency dust respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

ADDITIONAL PROTECTION: Protection to avoid contact with clothing, shoes.(chemical-resistant lab apron, overalls, booties, sleevelets.)

OTHER PROTECTIVE EQUIPMENT: Eye wash and quick-drench shower facilities should be available in work area. Use in a controlled environment. Do not smoke, eat or drink in area. Avoid prolonged or repeated exposure.

PRECAUTIONS: HIGHLY TOXIC Avoid contact with skin, eyes, clothing, shoes. Irritant to skin and mucous membranes. Do not inhale dust. Use with adequate ventilation. May be fatal if swallowed. May be harmful if absorbed thru skin. Harmful if inhaled. Avoid release into the environment.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: Gray rod; odorless
MOLECULAR WEIGHT: 204.37
MELTING POINT (DEG. C.): 303
SPECIFIC GRAVITY (WATER = 1): No Data
BOILING POINT: 1457 deg. C.
VAPOR PRESSURE: Not applicable
VAPOR DENSITY (AIR = 1): Not applicable
% VOLATILE BY VOLUME: Non volatile
SOLUBILITY IN WATER: Insoluble

SECTION 10 Stability and Reactivity

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Air
INCOMPATIBILITY: No Data
DECOMPOSITION PRODUCTS: Fumes of toxic metal oxide.

SECTION 11 Toxicological Information

CARCINOGENIC EFFECTS: No Data
MUTAGENIC EFFECTS: No Data
TETRATOGENIC EFFECTS: No Data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: Toxic to fish. May cause long-term adverse effects in the aquatic environment. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Toxic for aquatic organisms. Do not allow material to be released to the environment without proper governmental permits.

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Toxic solid, inorganic, n.o.s. (Thallium rod) Class 6.1 UN3288, PG II, TOXIC LABEL DOT AND IATA REGULATED

SECTION 15 Regulatory Information

TSCA: Listed

SARA (TITLE 313): Yes

RCRA STATUS: Meets criteria for toxic material and should be managed as a hazardous waste .

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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