

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Tin (II) iodide
CAS #: 10294-70-9
FORMULA: SnI₂
SYNONYM: Stannous diiodide, Tin diiodide, Diiodotin

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound Sn)	10294-70-9	100	2mg/m ³ (inorganic as Sn)	2mg/m ³ (inorganic as Sn)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Irritating to skin, eyes and respiratory tract. May be harmful if swallowed. Prolonged exposure may produce a mild toxic syndrome known as iodism.

PRIMARY ROUTES OF EXPOSURE: Contact with skin and eyes. Inhalation of dust.

EYE CONTACT: Contact with eyes causes irritation. May cause redness and pain.

SKIN CONTACT: Causes irritation to skin. Symptoms include redness, itching, and pain, pimples, boils, hives and blisters.

INHALATION: Causes irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

INGESTION: May cause severe irritation to the gastrointestinal tract with abdominal pain, nausea, and vomiting.

CHRONIC HEALTH EFFECTS: Inhalation of dust may cause coughing and shortness of breath. Ingestion may cause abdominal pain, nausea, and vomiting. Skin and eye contact will cause severe irritation. Prolonged exposure to dust of tin compounds may result in benign pneumoconiosis.

ACUTE HEALTH EFFECTS: Irritating to skin, eyes and respiratory tract.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the 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.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable
AUTO IGNITION TEMPERATURE: none
EXPLOSION LIMITS: none
EXTINGUISHING MEDIUM: None. Material is non flammable
SPECIAL FIREFIGHTING PROCEDURES: If 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: none
UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with powdered sodium bicarbonate, lime, or calcium carbonate and swept up. Avoid raising dust.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store solid in a tightly sealed container away from moisture. Handle in a fume hood under a dry atmosphere of air or nitrogen. Prolonged exposure to the atmosphere may degrade the product.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.
SKIN PROTECTION: Chemical-resistant.
VENTILATION: If possible, handle the material in an efficient fume hood.
RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: -6 mesh orange to red powder
MOLECULAR WEIGHT: 372.5
MELTING POINT (DEG. C.): none
BOILING POINT: 720^o
VAPOR PRESSURE: no data
SPECIFIC GRAVITY: 5.21
SOLUBILITY IN WATER: .98g/100cc(20^oC)

SECTION 10 Stability and Reactivity

STABILITY: moisture sensitive
HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: contact with moisture
INCOMPATIBILITY: chlorine, bromine and active metals
DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Intravenous (mouse); LD50: 100 mg/kg.
MUTAGENIC EFFECTS: no data
TETRATOGENIC EFFECTS: no data
CARCINOGENIC 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: No information available

SECTION 13 Disposal Considerations

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

SECTION 14 Transportation Information

Non-hazardous

Non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (TITLE 313): Title compound not listed

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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