

24 HR. EMERGENCY PHONE NO. CHEM-TREC 1-800-424-9300

MATERIAL SAFETY DATA SHEET

Manufacturer:

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SECTION 1 Product Identification

CHEMICAL NAME: Tin (IV) sulfide

CAS REGISTRY NUMBER: 1315-01-1

FORMULA: SnS₂

EINECS NUMBER: 215-252-9

CHEMICAL FAMILY: metal chalcogenides

SYNONYM: Stannic sulfide

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	1315-01-1	100	2mg/m ³ (as Sn - inorganic)	2mg/m ³ (as Sn - inorganic)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Toxic hydrogen sulfide may be released with strong acids.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, skin

EYE CONTACT: Dust may cause mild to moderate irritation of the eyes.

SKIN CONTACT: May cause slight irritation of the skin.

INHALATION: Inhalation of dust can lead to irritation of the respiratory tract. Hydrogen sulfide gas, if formed, is poisonous.

INGESTION: No information on the physiological effects of ingestion.

ACUTE HEALTH EFFECTS: Hydrogen sulfide, if released, causes nausea, dizziness and pulmonary edema.

CHRONIC HEALTH EFFECTS: Prolonged exposure to dust of tin compounds may result in benign pneumoconiosis.

NTP: No

IARC: No

OSHA: No

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.

SKIN EXPOSURE: Wash the 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 attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Fire Fighting Measures

FLASH POINT: not applicable

AUTOIGNITION TEMPERATURE: no data

EXPLOSION LIMITS: no data

EXTINGUISHING MEDIUM: carbon dioxide or dry powder

SPECIAL FIRE FIGHTING 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 irritating fumes of hydrogen sulfide and sulfur dioxide.

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 vermiculite or sodium carbonate and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store in a sealed container. Keep away from heat and moisture.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses when handling a chemical substance in the laboratory.

SKIN PROTECTION: Wear appropriate chemical resistant rubber gloves.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If ventilation is not available a respirator should be worn. The use of a respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.

ADDITIONAL PROTECTION: No additional protection required.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: -100 mesh brown powdr.

MOLECULAR WEIGHT: 182.82

MELTING POINT (°C): no data

BOILING POINT (°C): 600° dec.

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 4.5

ODOR: none

SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: contact with air, water, and mineral acids. Reaction with mineral acids can lead to formation of toxic fumes of hydrogen sulfide.

INCOMPATIBILITY: oxidizing agents

DECOMPOSITION PRODUCTS: hydrogen sulfide, sulfur dioxide, and metal oxides.

SECTION 11 Toxicological Information

RTECS DATA: No information available in the RTECS files.

CARCINOGENIC EFFECTS: no data

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

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

SECTION 14 Transportation Information

SHIPPING NAME (CFR): Non-hazardous

HAZARD CLASS (CFR): NA

ADDITIONAL HAZARD CLASS (CFR): NA

PACKING GROUP (CFR): NA

UN ID NUMBER (CFR): NA

SHIPPING NAME (IATA): Non-hazardous

HAZARD CLASS (IATA): NA

ADDITIONAL HAZARD CLASS (IATA): NA

PACKING GROUP (IATA): NA

UN ID NUMBER (IATA): NA

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory.

SARA (TITLE 313): Title compound not listed.

SECOND INGREDIENT: none

THIRD INGREDIENT: none

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 contained in this document or any use of the product based on this information.

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