

# Material Safety Data Sheet

## Section 1 – Chemical Product and Company Identification

Catalog Numbers: SC7500-H, SC7500-E, SC7500-I, SC7500-J, SC7500-K, SC7500-M  
Product Identity: Stannous Chloride, ACS

**Chemical Family:** Not Applicable

**Synonyms:** Tin (II) Chloride Dihydrate; Stannous Chloride dihydrate; stannochlor

**Recommended Use:** Laboratory chemicals

Distributor's Name: Chemworld 885 Woodstock Rd, Ste 430-111, Roswell 30075  
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 07/02/12

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## Section 2 – Hazard Identification

**Emergency Overview:** May cause liver damage. Causes eye and skin burns. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns. Possible sensitizer. Moisture sensitive. May be harmful if swallowed.

**Appearance:** Colorless to white powder

**Odor:** None reported

**Target Organs:** Blood, liver, lungs, bone

**Potential Health Effects/ Routes of Exposure:**

**Eyes:** Causes eye burns. May cause chemical conjunctivitis and corneal damage

**Skin:** Causes skin burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.

**Ingestion:** May cause severe and permanent damage to the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. Ingested inorganic tin exhibits only moderate toxicity due to poor absorption and rapid tissue turnover. Ingestion of large amounts may cause gastrointestinal irritation, nausea, cramps, vomiting and diarrhea. May interfere with various enzyme systems. Inorganic tin salts may cause systemic effects on the central nervous system, heart and liver. May be harmful if swallowed. May cause systemic effects.

**Inhalation:** Irritation may lead to chemical pneumonitis and pulmonary edema. Causes chemical burns to the respiratory tract. May cause effects similar to those described for ingestion. Aspiration may lead to pulmonary edema. May cause systemic effects.

**Chronic Effect / Carcinogenicity:** Repeated or prolonged exposure may cause allergic reactions in sensitive individuals.

**Aggravated Medical Conditions** No information available

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

## Section 3 – Composition, Information on Ingredients

Stannous Chloride, CAS# 10025-69-1

## Section 4 – First Aid

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

**Skin:** Flush with water for 15 minutes. Get medical assistance if irritation develops.

**Ingestion:** DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Notes to Physician** Treat symptomatically.

## Section 5 – Fire Fighting Measures

**Flash Point:** Not Applicable **Autoignition Temperature** No information available.  
**Explosion Limits Upper** No data available **Lower** No data available  
**Extinguishing Media:** Use appropriate means to extinguish surrounding fire.  
**Unsuitable Extinguishing Media:** Do not get water inside containers.  
**Fire & Explosion Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.  
**Fire Fighting Instructions / Equipment:** Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.  
**Hazardous Combustion Products:** No information Available  
**Sensitivity to mechanical impact** No information available.  
**Sensitivity to static discharge** No information available.  
**Specific Hazards Arising from the Chemical:** No Information Available  
**NFPA Rating:** (estimated) Health: 3; Flammable: 0; Reactivity: 1

### Section 6 – Accidental Release Measures

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.  
**Environmental Precautions** Should not be released into the environment.  
**Methods for Containment and Clean Up** Sweep up and containerize for disposal. Avoid dust.

### Section 7 – Handling and Storage

**Handling:** Wash hands after handling. Avoid contact with skin and eyes. Use under fume hood. Do not allow with contact with water, moist air and steam.  
**Storage:** Keep container tightly closed in a cool, dry area. Protect from freezing and physical damage.

### Section 8 – Exposure Controls, Personal Protection

Stannous Chloride, CAS# 10025-69-1, ACGIH TLV: NA, OSHA PEL: NA  
**Engineering Measures/ General Hygiene:** Chemical fume hood.  
**Personal Protection Equipment: Skin Protection:** Chemical resistant gloves.  
**Eye/Face Protection:** Safety Glasses or goggles. **Respiratory Protection:** Chemical Fume hood

### Section 9 – Physical and Chemical Properties

**Appearance/Physical State:** Colorless to white powder  
**Odor:** None reported **% Volatility:** No Information Available  
**Boiling Point:** Decomposes **Specific Gravity:** 2.7  
**Melting Point:** 100 F **Vapor Pressure:** No Information Available  
**Vapor Density:** No Information Available **Flash Point:** Not Applicable  
**Evaporation Rate:** No Information Available **Coefficient of water/oil distribution:** Not Available  
**pH:** No Information Available **Odor Threshold:** Not Available  
**Flammability:** No Information Available **Decomposition Temperature:** No Information Available  
**Solubility:** Decomposes in water **Partition Coefficient n-octanol/water:** No data available  
**Relative Density:** No Information Available **Molecular Weight:** 225.63

### Section 10 – Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of use and storage. Moisture sensitive  
**Incompatible Materials:** Moisture  
**Conditions to Avoid:** High temperatures, incompatible materials, moisture, exposure to air  
**Hazardous Decomposition Products:** Hydrogen chloride, chlorine, oxides of tin, irritating and toxic fumes  
**Hazardous Polymerization:** Does not occur  
**Hazardous Reactions:** None under normal processing.

### Section 11 – Toxicological Information

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2

LD50 orl-rat: NA LC50 inhalation-rat: NA

**Irritation:** Causes burns

**Toxicologically Synergistic:** No Information Available

**Chronic Exposure**

**Carcinogenicity** There are no known carcinogenic chemicals in this product

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Reproductive Effects** No information available.

**Developmental Effects (Immediate/Delayed)** No information available.

**Teratogenicity** No information available.

**Other Adverse Effects** No information available.

**Endocrine Disruptor Information** No information available

**Section 12 – Ecological Information**

**Ecotoxicity:** No information available

**Persistence and Degradability:** No Information Available

**Mobility:** No Information Available

**Bioaccumulation/ Accumulation:** No Information Available

**Section 13 – Disposal Considerations**

**Waste Disposal/Waste Disposal of Packaging:** Containerize for disposal. All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

**Section 14 – Transport Information**

**DOT - UN1759, Corrosive Solid, Stannous Chloride, NOS, 8 , III**

**Section 15 – Regulatory Information (not meant to be all inclusive)**

**OSHA Status:** These chemicals are not considered hazardous by OSHA.

**Canada DSL:** The chemicals are listed on Canada's DSL list.

**TSCA:** The components of this solution are listed on the TSCA Inventory

**SARA Title III Section 313:** Not Applicable

**RCRA Status:** Not Applicable

**CERCLA Reportable Quantity:** Not Applicable

**WHMIS:** E, D2A

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**Section 16 – Additional Information**

**Disclaimer:** The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.