

3-7-2022: File reviewed, more current MSDS/SDS not available. JMC

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tin(IV) Chloride

Signal Word  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-10378

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).



Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Tin(IV) chloride, pentahydrate	10026-06-9	SnCl <sub>4</sub> •5H <sub>2</sub> O	350.61	
Synonyms: Stannic chloride; Tin tetrachloride				

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

**If inhaled:** Remove victim to fresh air in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If on skin:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).

**If swallowed:** Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

NFPA Code

When heated to decomposition, may emit toxic fumes.

None established

In case of fire: Use a tri-class dry chemical fire extinguisher.

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

---

## **SECTION 7 — HANDLING AND STORAGE**

---

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates.

Moisture sensitive material. Keep container tightly closed. Store in a Flinn Chem-Saf™ bag.

---

## **SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

---

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

---

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

---

White to slightly yellow solid. Odorless.

Specific gravity: 2.226

Soluble: Cold water and alcohol. Decomposes in hot water.

---

## **SECTION 10 — STABILITY AND REACTIVITY**

---

Avoid contact with strong bases, alcohols, heat, and water. Contact with warm, moist air produces hydrochloric acid.

Shelf life: Poor, moisture sensitive. See Section 7 for further information.

---

## **SECTION 11 — TOXICOLOGICAL INFORMATION**

---

Acute effects: Toxic, harmful liquid, corrosive

ORL-RAT LD<sub>50</sub>: N.A.

Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: 2300 mg/m<sup>3</sup>/10m

Target organs: Eyes, skin

SKN-RBT LD<sub>50</sub>: N.A.

---

## **SECTION 12 — ECOLOGICAL INFORMATION**

---

Data not yet available.

---

## **SECTION 13 — DISPOSAL CONSIDERATIONS**

---

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #1b is one option.

---

## **SECTION 14 — TRANSPORT INFORMATION**

---

Shipping name: Stannic Chloride, pentahydrate. Hazard class: 8, Corrosive. UN number: UN2440.

---

## **SECTION 15 — REGULATORY INFORMATION**

---

TSCA-listed, EINECS-listed (231-588-9).

---

## **SECTION 16 — OTHER INFORMATION**

---

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

**Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory**

**chemicals.**

**Revision Date:** March 21, 2014

---