



LTS Research Laboratories, Inc.
Safety Data Sheet
Tin Chloride

1. Product and Company Identification

Trade Name: Tin Chloride
Chemical Formula: SnCl₂
Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.
Street: 2001 Oaks Pkwy
City: Belmont, Charlotte
State: North Carolina
Zip Code: 28012
Country: USA
Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)
+1-703-527-3887 (International)

2. Hazards Identification

Signal Word:

Danger



Hazard Statements:

H290: May be corrosive to metals.
H302 + H332: Harmful if swallowed or if inhaled.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H373: May cause damage to organs (Cardio-vascular system) through prolonged or repeated exposure if swallowed.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P234: Keep only in original container
P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray
P264: Wash face, hands and any exposed skin thoroughly after Handling
P270: Do not eat, drink, or smoke when using this product
P271: Use only outdoors or in a well-ventilated area
P272: Contaminated work clothing must not be allowed out of the workplace
P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection
P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all Contaminated clothing. Rinse skin with water/ shower
P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P314: Get medical advice/ attention if you feel unwell
P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention
P363: Wash contaminated clothing before reuse
P390: Absorb spillage to prevent material damage
P391: Collect spillage
P402: Store in a dry place
P403 + P233: Store in a well-ventilated place. Keep container tightly closed
P405: Store locked up
P406: Store in corrosive resistant container with a resistant inner liner
P501: Dispose of contents/ container to an approved waste disposal plant

HMIS Health Ratings (0-4):

Health:	3
Flammability:	0
Physical:	1

3. Composition

Chemical Family:
Additional Names:

Halides
Stannous chloride

Tin Chloride (SnCl₂):

Percentage:	100 wt%
CAS No:	7772-99-8
EC No:	231-868-0

4. First Aid Procedures

General Treatment:
Special Treatment:
Important Symptoms:

Seek medical attention if symptoms persist.
None
None

Inhalation:
Ingestion:

Remove victim to fresh air. Supply oxygen if breathing is difficult.
Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.

Skin:

Wash affected area with mild soap and water. Remove any contaminated clothing.

Eyes:

Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

5. Firefighting Measures

Flammability:	Non-flammable, except as powder
Extinguishing Media:	Use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires – use CO ₂ , dry chemical, dry sand, alcohol resistant foam.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits:	2 mg/m ³ as SnCl ₂ , long-term value
Threshold Limit Value:	2 mg/m ³ as SnCl ₂ , long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. Physical and Chemical Characteristics

Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	Soluble
Boiling Point:	652°C
Melting Point:	246 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.9 g/cc
Molecular weight:	189.6 g/mol

10. Reactivity

Stability:	Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents, Peroxides, Alkali metals, strong acids, Halogens, Carbides, Hydrazine, Nitrates
Incompatible Conditions:	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water. Exposure to air.
Hazardous Decomposition Products:	Hydrogen chloride gas

11. Toxicological Information

Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns
Ingestion:	Harmful if swallowed
Inhalation:	Harmful if swallowed
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	1910 mg/kg for rat by mouth as SnCl ₂
Carcinogen:	N/A

12. Ecological Information

Aquatic Toxicity:	Very toxic for aquatic organisms, with long-lasting harmful effects
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation as powder and pieces/granules only



Hazard Class:	8
Packing Group:	II
UN Number:	UN3260
Proper Shipping Name:	Corrosive solid, acidic, inorganic, n.o.s. (tin chloride)

15. Regulatory Information

Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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