MATERIAL SAFETY DATA SHEET
Tin(II) chloride

Section 1 - Chemical Product and Company Identification

MSDS Name: Tin(II) chloride
Catalog Numbers: 19698-0000, 19698-0250, 19698-1000
Synonyms: Stannous chloride
Company Identification: Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium
Company Identification: (USA) Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>7772-99-8</td>
<td>Tin(II) chloride</td>
<td>98%</td>
<td>231-868-0</td>
</tr>
</tbody>
</table>

Hazard Symbols: C
Risk Phrases: 22 34 43

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful if swallowed. Causes burns. May cause sensitization by skin contact.

Potential Health Effects

Eye: Causes eye burns.
Skin: Causes skin burns. May cause sensitization by skin contact.
Ingestion: Harmful if swallowed. Causes gastrointestinal tract burns.
Inhalation: Causes chemical burns to the respiratory tract.
Chronic: May cause liver and kidney damage.
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 7772-99-8:
United Kingdom, WEL - TWA: \((\text{tin inorganic compounds})\): 2 mg/m3 TWA (except SnH4, as Sn) United Kingdom, WEL - STEL: \((\text{tin inorganic compounds})\): 4 mg/m3 STEL (except SnH4, as Sn)
United States OSHA: 2 mg/m3 TWA (as Sn) (Tin inorganic compounds).
Belgium - TWA: \((\text{tin inorganic compounds})\): 2 mg/m3 VLE (as Sn)
Malaysia: \((\text{tin inorganic compounds})\): 2 mg/m3 TWA (as Sn, except tin hydride)
Netherlands: \((\text{tin inorganic compounds})\): 2 mg/m3 MAC (as Sn)
Spain: \((\text{tin inorganic compounds})\): 2 mg/m3 VLA-ED (as Sn)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder
**Color:** white - fine  
**Odor:** weak odor  
**pH:** 2 (10% in water)  
**Vapor Pressure:** Not available  
**Viscosity:** Not available  
**Boiling Point:** 652 deg C @760mmHg (1,205.60°F)  
**Freezing/Melting Point:** 246 deg C (474.80°F)  
**Autoignition Temperature:** Not available  
**Flash Point:** Not available  
**Explosion Limits: Lower:** Not available  
**Explosion Limits: Upper:** Not available  
**Decomposition Temperature:** Not available  
**Solubility in water:** in water: 2700 g/l (20°C)  
**Specific Gravity/Density:** 3.950  
**Molecular Formula:** Cl2Sn  
**Molecular Weight:** 189.6

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.  
**Conditions to Avoid:** Incompatible materials, heating to decomposition, exposure to moist air or water.  
**Incompatibilities with Other Materials**  
Metals, strong oxidizing agents, strong bases, bromine trifluoride, ethylene oxide, nitrates, potassium, hydrogen peroxide, sodium, azo, diazo, and hydrazines (e.g. dimethyl hydrazine, hydrazine, methyl hydrazine), water reactive substances (e.g. acetic anhydride, alkyl aluminum chloride, calcium carbide, ethyl dichlorosilane), metal nitrates.  
**Hazardous Decomposition Products**  
Hydrogen chloride, carbon monoxide, carbon dioxide, tin/tin oxides.  
**Hazardous Polymerization**  
Will not occur.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 7772-99-8: XP8700000  
**LD50/LC50:**  
| RTECS | CAS# 7772-99-8 | Oral, mouse: LD50 = 250 mg/kg; Oral, rabbit: LD50 = 10 gm/kg; Oral, rat: LD50 = 700 mg/kg; .  
**Carcinogenicity:** Tin(II) chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
**Other:** See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

### Section 12 - Ecological Information

Not available

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
</tr>
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</table>

Not available
**European/International Regulations**

**European Labeling in Accordance with EC Directives**

- **Hazard Symbols:** C
- **Risk Phrases:**
  - R 22 Harmful if swallowed.
  - R 34 Causes burns.
  - R 43 May cause sensitization by skin contact.
- **Safety Phrases:**
  - S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  - S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
  - S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**WGK (Water Danger/Protection)**

- CAS# 7772-99-8: 1
- Canada
  - CAS# 7772-99-8 is listed on Canada's DSL List

**US Federal**

- **TSCA**
  - CAS# 7772-99-8 is listed on the TSCA Inventory.

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**Section 16 - Other Information**

- **MSDS Creation Date:** 7/16/1996
- **Revision #3 Date:** 1/22/2008
- **Revisions were made in Sections:** 1, 2, 3, 9, 10, 14

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