

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 Pharmaceuticaaan 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

CAS#	Chemical Name:	%	EINECS#
7772-99-8	Tin(II) chloride	98%	231-868-0

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.

Section 4 - First Aid Measures

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: (tin inorganic compounds): 2 mg/m³ TWA (except SnH₄, as Sn) United Kingdom, WEL - STEL: (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: (tin inorganic compounds): 2 mg/m³ VLE (as Sn)

Malaysia: (tin inorganic compounds): 2 mg/m³ TWA (as Sn, except tin hydride)

Netherlands: (tin inorganic compounds): 2 mg/m³ MAC (as Sn)

Spain: (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

IATA

IMO

RID/ADR

Shipping Name:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.*	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Hazard Class:	8	8	8
UN Number:	3260	3260	3260
Packing Group:	III	III	III

Section 15 - Regulatory Information

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.

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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