SAFETY DATA SHEET

ProChemOnline.com

ProChem inc.

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tin (II) Chloride, anhydrous**

PRODUCT NUMBER: 3645

CAS NUMBER: 7772-99-8

SYNONYMS: Stannous chloride, Tin dichloride

ProChem, Inc.
826 Roosevelt Road
Rockford, IL61109

PHONE: 815-398-1788
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Corrosive to metals	Category – 1
Acute toxicity; oral. Inhalation	Category – 4
Skin corrosion / irritation	Category – 1
Skin Sensitization	Category – 1, 1A, 1B.
Serious eye damage / eye irritation	Category – 1
Specific target organ toxicity – Respiratory system	Category – 3
Specific target organ toxicity – Repeated exposure	Category – 2
Long-term hazard to aquatic environment	Category – 3

Pictogram



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 through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

Precautionary Phrases

P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release into the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induct vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with waster for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $SnCl_2$

Molecular Weight: 189.62

CHEMICAL NAME	CAS#	%
Tin (II) Chloride	7772-99-8	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.
SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable
AUTO IGNITION TEMPERATURE: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Use fire fighting measures that suit the suitable surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen chloride gas and tin oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid breathing vapors, mist, or gas.
ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Small spills may be mixed with diatomaceous earth, sand, vermiculite, or other suitable inert material and swept up.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols. Handle under dry protective gas. Avoid contact with eyes and skin. Further processing of solid materials may result in the formation of combustible dusts.
CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Moisture sensitive. Store under inert gas. Store away from air, water, moisture, strong bases, oxidizing agents. Hygroscopic.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS

Component	Exposure Limits	Basis	Entity
Tin (II) Chloride	2 mg/m³	TLV	ACGIH
	2 mg/m³	PEL	OSHA
	2 mg/m³	REL	NIOSH

TLV: Threshold Limit Value over 8 hours of work.
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

EYE EXPOUSRE / PROTECTION: Causes burns, redness, and pain. Wear chemical safety glasses or goggles and face shield.
SKIN EXPOSURE / ROTECTION: Causes burns to skin. Symptoms include redness, itching, and pain. Wear nitrile or rubber gloves min thickness .11 mm or above and a suit that fully protects skin from chemical contact.
INHALATION: Causes chemical burns to the respiratory tract. Symptoms may include coughing, and shortness of breath.
VENTILATION: Provide local exhaust, preferably mechanical.
RESPIRATOR: Use an approved respirator.
INGESTION: May cause nausea, vomiting and diarrhea, burning in mouth and throat, reduced blood pressure, and stomach bleeding.
ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White powder
ODOR: None
MOLECULAR WEIGHT: 189.62
BOILING POINT: 652°C (dec.)
MELTING POINT: 246°C
SPECIFIC GRAVITY: 3.95
VAPOR DENSITY: No data available
SOLUBILITY IN WATER: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Avoid moisture
INCOMPATIBILITY: Strong oxidizing agents, strong bases, sodium oxides, potassium, hydrogen peroxide, bromine trifluoride, hydrazine, halides, strong reducing agents, calcium acetylide, air, water, and moisture.
DECOMPOSITION PRODUCTS: Hydrogen chloride gas and tin oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – rat -1910 mg/kg.
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available
RTECS: XP8700000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

TOXICITY TO FISH: LC50 (other fish): 10.19 mg/l
TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: EC50 (Daphnia (water flea)):.22-55 mg/l.
TERRESTRIAL: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN3260
Corrosive solid, acidic, inorganic, n.o.s.
(Tin (II) chloride)
CLASS 8
PG III

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 302/304: Not Listed
SARA 311/312: Acute Health Hazard
SARA (TITLE 313): Not Listed
CALIFORNIA PROP. 65: Not Listed
MASSACHUSETTES RIGHT TO KNOW: Tin (II) chloride
WHMIS CANADA: Class D-2B: Toxic material causing other toxic effects. Class E: Corrosive material

SECTION 16 OTHER INFORMATION

HMIS CLASSIFICATION:
Health: 3 Fire: 0 Reactivity Hazard: 0
NFPA RATING:
Health: 3 Flammability: 0 Reactivity Hazard: 0

CAS #: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
NIOSH: National Institute for Occupational Safety and Health
LD50: Lethal Dose, 50%
RTECS: Registry of Toxic Effects of Chemical Substances
LC50: Lethal Concentration, 50%.
EC50: Lethal Concentration, 50%
mg/l: milligrams per liter

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 09/14
DATE. REVISED 7/26
REVISION SUMMARY: Updated the following Sections - # 2 Added GHS Pictogram (Health Hazard) & Hazard Statement H290+H317+H335+H373. Section # 7 – added to safe storage statement. All other details in the document about the product remain unchanged. Revision made by EHS 7/26

Reviewed/Approved EZ 6/26 EHS/ SDS DEPT.