



**Section 3. Composition / information on ingredients**

|                               |                   |
|-------------------------------|-------------------|
| Chemical or common name:      | Tin(IV)chloride   |
| Synonyms:                     | Stannic chloride  |
| Chemical formula:             | SnCl <sub>4</sub> |
| Single Substance or Compound: | Single substance  |
| Composition:                  | 100%              |
| CAS #:                        | 7646-78-8         |
| RTECS#:                       | XP8750000         |
| TSCA inventory:               | listed            |
| EINECS:                       | 2315889           |

**Section 4. First aid measures**

|               |   |
|---------------|---|
| Eye contact:  | Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.  |
| Skin contact: | Remove immediately all contaminated clothing. Wipe off the product immediately by tissue or soft cloth, etc. Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues. |
| Inhalation:   | Remove the exposed person immediately and provide fresh air.<br>Get medical attention.  |
| Ingestion:    | Rinse mouth and throat with water. Get medical attention immediately.   |

**Section 5. Fire fighting measures**

|   |  |
|---|--|
| Extinguishing media:                        | Carbon dioxide, Dry chemical powder, water fog or foam.  |
| Fire fighting:                              | Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.<br>Remove containers to safe place if possible. |
| Explosion hazards:                          | No data available  |
| Specific hazards arising from the chemical: | In case of fire, may liberate toxic gases/ fume.<br>Reaction with water may generate much heat that will increase the concentration of fumes in the air.             |

**Section 6. Accidental release measures**

|   |   |
|---|---|
| Personal Precautions:                   | Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor.   |
| Environmental hazard precautions:       | Shut off leak if without risk.<br>Prevent flow out to river, etc. so as not to badly affect.  |
| Method for containment and cleaning up: | Avoid unnecessary contacts with spills.<br>Indoor leakage: Ventilate as much as possible until the cleaning is completed.<br>Outdoor leakage: Work from the windward and evacuate the leeward crowd.<br>Gather up, pack in closed container as much as possible.<br>Carefully collect remnant and move to a safe place. |

## Section 7. Handling and storage

### Precautions to be taken in handling:

Safe handling: Handling worker wears suitable protective clothing, and use local ventilation equipment.

### Precautions to be taken in storage:

General precautions:

Keep only in original container.

Keep container or bottle tightly closed.

Store in a cool, dry place away from incompatible materials.

## Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH (2012): Tin, Oxide and inorganic compounds, except tin hydride  
TLV-TWA = 2 mg/m<sup>3</sup> (as Sn)

OSHA (2006): Tin, inorganic compounds PEL-TWA = 2 mg/m<sup>3</sup> (as Sn)

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, face shields, protective gloves.

## Section 9. Physical and chemical properties

Color and Form: Colorless fuming liquid with pungent odor.

Chemical formula: SnCl<sub>4</sub>

Formula weight: 260.5

Melting point: -33 °C

Boiling point: 114.1 °C

Density: 2.26 g/cm<sup>3</sup>

Water solubility: Reacts violently with water, and produces corrosive hydrogen chloride.

Flammable: non-flammable substance

Oxidation: No data available

## Section 10. Stability and reactivity

Stability: Stable in closed container.

Reactivity

Incompatibility: Strong bases, alcohols, turpentine, amine.

Condition to avoid: Water and moisture, light, heat.

Hazardous decomposition products.:

Hydrogen chloride, tin oxides.

## Section 11. Toxicological information

Acute toxicity(Oral, dermal) : GHS : No data available

Acute toxicity(Inhalation : vapor) : GHS : Category 1 ; Fatal if inhaled.

Inhalation rat LD<sub>50</sub>(4hr) = 0.47 mg/L (RTECS(2004))

Skin corrosive / irritation: GHS : Category 1A-1B ;

Causes severe skin burns and eye damage.

Serious eyes damage / eye irritation: GHS : Category 1 ; Causes serious eye damage.

Respiratory sensitization: GHS : No data available

Skin sensitization: GHS : No data available

|   |   |
|---|---|
| Germ cell mutagenicity:                               | GHS : No data available   |
| Carcinogenicity:                                      | GHS : No data available<br>IARC(2013), NTP(2011), ACGIH(2012) : not listed.                 |
| Reproductive toxicity:                                | GHS : No data available   |
| Specific target organ toxicity<br>—single exposure:   | GHS : Category 3 ; May cause respiratory irritation.  |
| Specific target organ toxicity<br>—repeated exposure: | GHS : Category 1 ;<br>Causes damage to organ (Lung) through prolonged or repeated exposure. |
| Aspiration hazard:                                    | GHS : No data available   |

## Section 12. Ecological information

### Ecotoxicity:

#### Hazards to the aquatic environment

- acute toxicity: GHS : Not classified.; Falls below the lowest level  
Fish(Zebrafish) LC<sub>50</sub>(96hr) > 1000mg/L (UCLID(2000))
- chronic toxicity: GHS : Not classified.; Falls below the lowest level  
Since not water-insoluble (soluble in water : HSDB( 2004)) and acute toxicity is low.

Hazardous the ozone layer: GHS : No data available

No Freon or Halon

Fish toxicity: See for “Hazards to the aquatic environment-acute toxicity”

Degradability: No data available

Bioaccumulative potential: No data available

(ref.) Sn Biological half-life 35 day,  
Rate of absorption Oral= 0.05 Respiratory tract= 0.28

Mobility in soil: No data available

## Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

## Section 14. Transport information

|                      |  |
|----------------------|--|
| UN number:           | 1827                                     |
| IATA shipping name:  | Stannic chloride, anhydrous              |
| IATA classification: | Hazardous Class 8 (Corrosive substances) |
| IATA packing group:  | II                                       |
| HS code:             | 2827.39                                  |
| Marine pollution:    | None                                     |

## Section 15. Regulatory information

TSCA inventory : listed.

Please refer to any other local / national measures that may be relevant.

## Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.