STANNIC CHLORIDE ANHYDROUS
CAS NO 7646-78-8

MATERIAL SAFETY DATA SHEET
SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers
   Product name : Stannic Chloride Anhydrous
   CAS-No. : 7646-78-8

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet
   Company : Central Drug House (P) Ltd
   Address : 7/28 Vardaan House
             New Delhi -110002
             INDIA
   Telephone : +91 11 49404040
   Email : care@cdhfinechemical.com

1.4 Emergency telephone number
   Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification according to Regulation (EC) No 1272/2008
   Skin corrosion (Category 1B), H314
   Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
   Chronic aquatic toxicity (Category 3), H412

   For the full text of the H-statements mentioned in this Section, see Section 16.

2.2 Label elements
   Labelling according Regulation (EC) No 1272/2008
   Pictogram

   Signal word : Danger
   Hazard statement(s)
   H314 : Causes severe skin burns and eye damage.
   H335 : May cause respiratory irritation.
   H412 : Harmful to aquatic life with long lasting effects.
   Precautionary statement(s)
   P260 : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
   P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection.
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  IF IN EYES: Rinse cautiously with water for several minutes. Remove 
contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements  none

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and 
toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1\% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances
Synonyms  :  Stannic chloride fuming

Formula  :  SnCl₂
Molecular weight  :  260.52 g/mol
CAS-No.  :  7646-78-8
EC-No.  :  231-588-9
Index-No.  :  050-001-00-5

Hazardous ingredients according to Regulation (EC) No 1272/2008
Component  Classification  Concentration
Stannic chloride  Skin Corr. 1B; STOT SE 3;  <= 100 \%
CAS-No.  7646-78-8
EC-No.  231-588-9
Index-No.  050-001-00-5
Aquatic Chronic 3; H314, H335, H412
Concentration limits:  
>= 5 \%; STOT SE 3, H335;

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a 
physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with 
water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in 
section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available
SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Hydrogen chloride gas, Tin/tin oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle and store under inert gas. Air and moisture sensitive. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.

**Body Protection**
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

| a) Appearance | Form: liquid  
| Colour: colourless |
| b) Odour | No data available |
| c) Odour Threshold | No data available |
| d) pH | 0.2 at 60 g/l at 20 °C |
| e) Melting point/freezing point | Melting point/range: -33 °C - lit. |
| f) Initial boiling point and boiling range | 114 °C - lit. |
| g) Flash point | Not applicable |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapour pressure | 10 mmHg at 10 °C  
| 20 mmHg at 22 °C |
| l) Vapour density | 8.99 - (Air = 1.0) |
| m) Relative density | 2.226 g/cm3 at 25 °C |
| n) Water solubility | No data available |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Auto-ignition temperature | No data available |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

### 9.2 Other safety information

- Relative vapour density: 8.99 - (Air = 1.0)
SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Alkyl nitrates, Ethylene oxide, Potassium, Humid air, Reacts violently with water.

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Tin/tin oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LC50 Inhalation - Rat - 4 h - 1.35 mg/l(Stannic chloride)
LC50 Inhalation - Rat - 0.16 h - 2,300 mg/m3(Stannic chloride)
LD50 Intraperitoneal - Mouse - 99 mg/kg(Stannic chloride)

Skin corrosion/irritation
No data available(Stannic chloride)

Serious eye damage/eye irritation
No data available(Stannic chloride)

Respiratory or skin sensitisation
No data available(Stannic chloride)

Germ cell mutagenicity
Human(Stannic chloride)
leukocyte
Cytogenetic analysis

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No data available(Stannic chloride)

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation. - Respiratory Tract(Stannic chloride)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Stannic chloride)

Additional Information
RTECS: XP8750000

Inorganic tin salts are poorly absorbed into the body. When parenterally a as a dust or fume leads to a benign pneumoconiosis with no sign of interf nodular with the particles being mostly extracellular. No necrosis, foreig seen. Tin salts that have gained access to the blood stream are highly to common tin salts, the toxicity profile is complicated by hydrolysis in bo symptoms of hyperemia, vascular changes with
bleeding in the central nerv tin itself or to the unphysiological pH changes. Ingestion produces vomit astringency of tin compounds. Injection of inorganic tin salts produces d, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Inhalation of high concentrations may cause.; Cough, chest pain, Breathing difficulties, pulmonary edema (Stannic chloride).

SECTION 12: Ecological information

12.1 Toxicity
Toxicity to fish LC50 - Oryzias latipes - 480.0 mg/l - 48.0 h (Stannic chloride)
Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 14 mg/l - 48 h (Stannic chloride)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available (Stannic chloride)

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number
ADR/RID: 1827 IMDG: 1827 IATA: 1827

14.2 UN proper shipping name
ADR/RID: STANNIC CHLORIDE, ANHYDROUS IMDG: STANNIC CHLORIDE, ANHYDROUS IATA: Stannic chloride, anhydrous

14.3 Transport hazard class(es)
ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group
ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user
No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out
SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.