



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Stannous Chloride, Dihydrate, Crystal**

PART NUMBER: 551500

CAS NUMBER: 10025-69-1

SYNONYM: Tin (II) chloride dihydrate; Stannous dichloride dihydrate

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word **Danger**

### Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

### Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician.
P363	Wash contaminated clothing before reuse.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** Causes eye burns.

**SKIN CONTACT:** Causes skin burns.

**INHALATION:** May be harmful if inhaled.

**INGESTION:** Harmful if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$

Molecular Weight: 225.65

CHEMICAL NAME	CAS#	%
Stannous Chloride, Dihydrate	10025-69-1	>98

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for several minutes. Assure flushing under eyelids. Seek medical attention immediately.

**SKIN EXPOSURE:** Wash affected area with plenty of water for 15 minutes while removing contaminated clothing and was using soap. Seek medical assistance immediately.

**INHALATION:** Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, administer CPR. Seek immediate medical assistance.

**INGESTION:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out mouth if conscious. Seek medical assistance immediately.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable.

**AUTO IGNITION TEMPERATURE:** Not applicable

**EXPLOSION LIMITS:** Powder form is capable of creating a dust explosion.

**EXTINGUISHING MEDIUM:** Use appropriate media for adjacent fire. Cool unopened containers with water.

**SPECIAL FIRE FIGHTING PROCEDURES:** If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Tin oxides and hydrogen chloride gas.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** None known

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Keep unprotected persons away. Wear appropriate respiratory and protective equipment to avoid exposure with material. Use non-sparking tools. Ventilate area.

**ENVIRONMENTAL PRECAUTIONS:** Do not allow material to be released to the environment without proper governmental permits.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Without creating dust, sweep up and place in suitable container for proper disposal. Dispose of in accordance to regulations.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Use adequate ventilation. Wash thoroughly after handling. Avoid formation of dust. Provide appropriate ventilation and respiratory protection.

**CONDITIONS FOR SAFE STORAGE:** Keep in tightly sealed container. Store in a cool, dry, well-ventilated area away. Store under inert gas.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### OCCUPATIONAL EXPPSURE CONTROLS:

COMPONENT	EXPOSURE LIMITS	BASIS	ENTITY
Stannous Chloride, Dihydrate	2 mg/m <sup>3</sup>	TLV	ACGIH
	2mg/m <sup>3</sup>	PEL	OSHA
	2 mg/m <sup>3</sup>	REL	NIOSH

TLV: Threshold limit value over 8 hours of work. PEL: Permissible exposure limit. REL: Recommended exposure limit.

**EYE PROTECTION:** Always wear approved safety glasses with side shields, safety goggles, and face shield when handling a chemical substance in the laboratory.

**SKIN PROTECTION:** Wear appropriate chemical resistant gloves, apron, or lab coat.

**VENTILATION:** Chemical fume hood

**RESPIRATOR:** If ventilation if not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

**ADDITIONAL PROTECTION:** Eyewash station/safety shower in area.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid

**MOLECULAR WEIGHT:** 225.65

**MELTING POINT:** 38° C

**SPECIFIC GRAVITY:** 2.71 g/cm<sup>3</sup>

**BOILING POINT:** 652° C

**VAPOR PRESSURE:** No data

**SOLUBILITY IN WATER:** Soluble in less than its own weight of water.

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Moisture and air

**INCOMPATIBILITY:** Hydrogen peroxide, strong bases, strong oxidizing agents, bromine trifluoride, hydrazine, ethylene oxide, metals, and organic nitrates.

**DECOMPOSITION PRODUCTS:** Tin oxides and hydrogen chloride gas.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 700 mg/kg.

**CHRONIC TOXICTY:** May cause damage to the following organs: blood, kidneys, lungs, liver, upper respiratory tract, and skin.

**CARCINOGENIC EFFECTS:** No data

**MUTAGENIC EFFECTS:** May affect genetic material.

**TETRATOGENIC EFFECTS:** No data

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

## SECTION 12 ECOLOGICAL DATA

No data 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.

(Stannous chloride)

Class 8

PG III

IATA and DOT regulated.

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** All ingredients are listed on the TSCA inventory.

**SARA (TITLE 313):** Not listed

**SARA 311:** Acute health hazard.

**SARA 312:** Acute health hazard.

## **SECTION 16 OTHER INFORMATION**

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DATE PREPARED: 08/16