

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **TIN II CHLORIDE, ANHYDROUS - SNT7920**  
CHEMICAL NAME: TIN II CHLORIDE, ANHYDROUS  
SYNONYMS: STANNOUS CHLORIDE, ANHYDROUS  
CHEMICAL FAMILY: INORGANIC TIN  
FORMULA: Cl<sub>2</sub>Sn

HMIS CODES HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
TIN II CHLORIDE, ANHYDROUS	7772-99-8	>95%	2 mg/m <sup>3</sup> as tin

**PHYSICAL DATA**

Boiling Point: 652°C	Melting Point: 246°C
Specific Gravity: 3.95	Vapor Pressure: not determined
Vapor Density: NA	Solubility in water, 20°: soluble
% volatiles: <1	Evaporation rate: NA
Molecular Weight: 189.60	Other: NA
Appearance & Color: White flakes with characteristic odor.	

**FIRE & EXPLOSION DATA**

Flash Point, COC: NA Autoignition Temp.: NA  
Flammability Limits: NA

Extinguishing Media: Not flammable.  
Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.  
Unusual Fire and Explosion Hazards: Irritating fumes vapors may develop when material is exposed to elevated temperatures or open flame.

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## ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Sweep material and transfer to a suitable non-metallic container for disposal.

Recommended Disposal: Dispose of as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of dust or particulates will irritate the respiratory tract.

Toxicity- oral rat, LD50: 588-700mg/kg

Chronic Toxicity: Exposure to dust or fumes of inorganic tin compounds may cause a benign pneumoniosis. (stannosis) Animal testing indicates that this material is a probable mutagen.

## SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

## REACTIVITY DATA

Stability: Stable

Conditions to avoid: Contact or storage with strong oxidizing agents.

Hazardous decomposition products: Tin chloride and, upon melting, tin oxide fumes.

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## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.  
Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist respirator.  
Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.  
Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

## OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(TIN II CHLORIDE)

DOT HAZARD CLASS: 8

DOT LABEL: CORROSVE

DOT ID No: 3260

PG II

Prepared by safety and environmental affairs

ISSUE DATE SNT7920: 5/12/05

SUPERSEDES: 10/4/03

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