

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **TIN II IODIDE - SNT7945**

CHEMICAL NAME: TIN II IODIDE

SYNONYMS: STANNOUS IODIDE

CHEMICAL FAMILY: INORGANIC TIN

FORMULA: I<sub>2</sub>Sn

HMIS CODES HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
TIN II IODIDE	12094-70-9	>95	not established (2 mg/m <sup>3</sup> as tin)

**PHYSICAL DATA**

Boiling Point: 717°C

Specific Gravity: 5.285

Vapor Density: NA

% volatiles: <1

Molecular Weight: 372.50

Appearance & Color: red-orange solid with characteristic acrid odor, fumes slowly in air.

Melting Point: 320°C

Vapor Pressure: not determined

Solubility in water, 20°: 9.8g/l (reacts slowly)

Evaporation rate: NA

Other: NA

**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. Skin may show rash, pimples, boils, blisters black and blue spots. 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- ivn mouse, LD50: 100mg/kg

Chronic Toxicity: Exposure to dust or fumes of inorganic tin compounds may cause a benign pneumoniosis. (stannosis) The thyroid is a target organ. Prolonged exposure may produce iodism in sensitive individuals. Animal testing indicates that this material is a probable teratogen RTECS XQ3650000..

## 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 iodide 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 IODIDE)

DOT HAZARD CLASS: 8

DOT LABEL: CORROSVE

DOT ID No: 3260

PG II

Prepared by safety and environmental affairs

ISSUE DATE SNT7945: 11/3/08

SUPERSEDES: none

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