

Puissant Materials

Safety Data Sheet (SDS)

Tin(II) Iodide (SnI_2)

Section 1: Identification

- **Product Name:** Tin(II) Iodide
 - **Chemical Formula:** SnI_2
 - **CAS Number:** 10294-70-9
 - **Recommended Use:** Laboratory reagent, chemical synthesis
 - **Supplier Information:** [Insert Supplier Details]
 - **Emergency Contact:** [Insert Emergency Contact Information]
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Section 2: Hazard Identification

- **GHS Classification:**
 - Acute Toxicity (Oral) – Category 4
 - Skin Irritation – Category 2
 - Eye Irritation – Category 2A
 - **Signal Word:** Warning
 - **Hazard Statements:**
 - H302: Harmful if swallowed.
 - H315: Causes skin irritation.
 - H319: Causes serious eye irritation.
 - **Precautionary Statements:**
 - 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.
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Section 3: Composition/Information on Ingredients

- **Chemical Name:** Tin(II) Iodide
- **Synonyms:** Stannous iodide
- **Molecular Formula:** SnI_2
- **CAS Number:** 10294-70-9
- **Concentration:** 100%

Section 4: First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse with plenty of water for at least 15 minutes. Seek medical advice.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂
- **Hazardous Combustion Products:** Hydrogen iodide, tin oxides
- **Firefighting Instructions:** Use protective gear and self-contained breathing apparatus.

Section 6: Accidental Release Measures

- **Personal Precautions:** Wear PPE (gloves, goggles, respirator)
- **Environmental Precautions:** Avoid release into the environment.
- **Cleanup Methods:** Sweep up material and place in a sealed container.

Section 7: Handling and Storage

- **Handling:** Use in a well-ventilated area. Avoid contact with skin and eyes.
- **Storage:** Store in a cool, dry place. Keep container tightly closed.

Section 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Local exhaust ventilation
- **Personal Protective Equipment:** Gloves, safety goggles, lab coat
- **Respiratory Protection:** NIOSH-approved respirator if needed

Section 9: Physical and Chemical Properties

- **Appearance:** Red-orange crystalline solid
- **Odor:** Odorless
- **Melting Point:** 320°C

- **Boiling Point:** Decomposes
 - **Solubility:** Insoluble in water, soluble in organic solvents
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Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions
 - **Incompatible Materials:** Strong oxidizers, acids
 - **Hazardous Decomposition Products:** Hydrogen iodide, tin oxides
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Section 11: Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat): Not available
 - **Skin Irritation:** Causes irritation
 - **Eye Irritation:** Causes severe irritation
 - **Chronic Effects:** Not well studied
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Section 12: Ecological Information

- **Toxicity:** No data available
 - **Persistence & Degradability:** No data available
 - **Bioaccumulative Potential:** No data available
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Section 13: Disposal Considerations

- Dispose of in accordance with local, state, and federal regulations.
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Section 14: Transport Information

- **UN Number:** Not regulated
 - **Hazard Class:** Not classified
 - **Packing Group:** Not applicable
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Section 15: Regulatory Information

- **OSHA Hazard Communication Standard:** Hazardous

- **TSCA Inventory:** Listed
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Section 16: Other Information

- **Date of Preparation:** [Insert Date]
 - **Revision Number:** 1.0
 - **Disclaimer:** The information provided in this SDS is believed to be accurate but is not guaranteed. Users are responsible for safe handling and compliance with applicable regulations.
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