



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Tin  
Cat No. T123-500; T127-500; T128-500; T131-1LB  
Synonyms Metallic Tin; Silver Matt Powder; Tin Flake  
Recommended Use Laboratory chemicals  
Uses advised against No Information available

Details of the supplier of the safety data sheet  
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### 2. HAZARDS IDENTIFICATION

#### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Category 4  
Specific target organ toxicity (single exposure) Category 3  
Target Organs - Central nervous system (CNS)

#### Label Elements

Signal Word Warning  
Hazard Statements Harmful if swallowed  
May cause drowsiness or dizziness



#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

<b>Precautionary Statements – Response</b>	Call a POISON CENTER or doctor/physician if you feel unwell
Inhalation	IF INHALED, Remove victim to fresh air and keep at rest in a position comfortable for breathing
Ingestion	IF SWALLOWED, Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth
<b>Precautionary Statements – Storage</b>	Store in a well-ventilated place. Keep container tightly closed Store locked up
<b>Precautionary Statements – Disposal</b>	Dispose of contents/container to an approved waste disposal plant
<b>Hazards not otherwise classified (HNOC)</b>	None identified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Tin	7440-31-5	99.8

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
<b>Ingestion</b>	Do not induce vomiting. Call a physician or Poison Control Center immediately.
<b>Most important symptoms/effects</b>	No information available
<b>Notes to Physician</b>	Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

Unsuitable Extinguishing Media	No information available
Flash Point Method	No information available
Autoignition Temperature	430 °C
<b>Explosion Limits</b>	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None under normal use conditions

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. NFPA

Health 1	Flammability	Instability	Physical hazards
1	1	1	N/A

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Ensure adequate ventilation. Use personal protective equipment.

### Environmental Precautions

See Section 12 for additional ecological information.

### Methods for Containment and Clean Up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

## 7. HANDLING AND STORAGE

### Handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure adequate ventilation.

### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tin	TWA: 2 mg/m <sup>3</sup>	(Vacated) TWA: 2 mg/m <sup>3</sup>	IDLH: 100 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Tin	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>

### Legend

**ACGIH** American Conference of Governmental Industrial Hygienists

**OSHA** Occupational Safety and Health Administration for Occupational Safety and Health  
Immediately Dangerous to Life or Health

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal Protective Equipment</b>	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Silver
Odor	Odorless
Odor Threshold	No information available
pH	
Melting Point/Range	231.9 °C
Boiling Point/Range	
Flash Point	
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 1492 °C
Vapor Density	No information available
Relative Density	7.31
Solubility	Insoluble in water
Partition coefficient	No data available
Autoignition Temperature	430 °C
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Sn
Molecular Weight	118.69

## 10. STABILITY AND REACTIVITY

Reactive Hazard	None known, based on information available
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Bioaccumulation/ Accumulation      No information available.  
 Mobility      No information available.

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods      Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

### 14. TRANSPORT INFORMATION

DOT      Not regulated  
 TDG      Not regulated  
 IATA      Not regulated  
 IMDG/IMO      Not regulated

### 15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Tin	X	X	-	231-141-8	-		X	-	X	X	X

**Legend:**

*X - Listed*

- E*      Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F*      Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N*      Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P*      Indicates a commenced PMN substance
- R*      Indicates a substance that is the subject of a Section 6 risk management rule under TSCA. *S* Indicates a substance that is identified in a proposed or final Significant New Use Rule *T* – Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU*      Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1*      Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2*      Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

**U.S. Federal Regulations**

TSCA 12(b)      Not applicable  
 SARA 313      Not applicable

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act	Not applicable
Clean Air Act	Not applicable
OSHA Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

**California Proposition 65 This product does not contain any Proposition 65 chemicals State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tin	X	X	X	-	X

**U.S. Department of Transportation**

Reportable Quantity (RQ)	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations**

Mexico - Grade	No information available
Canada	

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR WHMIS Hazard Class** Non-controlled

**16. OTHER INFORMATION****Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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