

10/26/05



SIGMA-ALDRICH

### Material Safety Data Sheet

Date Printed: 10/02/2001  
Date Updated: 10/28/1999  
Version 1.0

#### Section 1 - Product and Company Information

<b>Product Name</b>	TIN, GRANULE, -30 MESH, 99.5+%, A.C.S. REAGENT		
<b>Product Number</b>	265667		
<b>Brand</b>	Aldrich Chemical		
<b>Company</b>	Sigma-Aldrich		
<b>Street Address</b>	3050 Spruce Street		
<b>City, State, Zip, Country</b>	SAINT LOUIS, MO, 63103, US		
<b>Technical Phone:</b>	314 771 5765	<b>Emergency Phone:</b>	414 273 3850 Ext.5996
<b>Fax:</b>	800 325 5052		

#### Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>
TIN	7440-31-5	No
<b>Formula</b>	Sn	
<b>Synonyms</b>	Silver matt powder, Tin (ACGIH:OSHA), Tin (alpha), Tin flake, Tin powder, Zinn (German)	

#### Section 3 - Hazards Identification

**Emergency Overview**  
Irritating to eyes, respiratory system, and skin.  
Caution: Avoid contact and inhalation.

For additional information on toxicity, please refer to Section 11.

#### Section 4 - First Aid Measures

**Inhalation Exposure**  
If inhaled, remove to fresh air.

**Dermal Exposure**  
Flush skin with water.

**Eye Exposure**  
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

#### Section 5 - Fire Fighting Measures

**Autoignition Temp:** N/A      **Flammability:** N/A

**Extinguishing Media**  
**Suitable**  
Use extinguishing media appropriate to surrounding fire conditions.

#### Firefighting

##### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

##### Specific Hazard(s)

Emits toxic fumes under fire conditions.

#### Section 6 - Accidental Release Measures

##### Procedure(s) of Personal Precaution(s)

Wear protective equipment.

##### Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

#### Section 7 - Handling and Storage

##### Handling

##### User Exposure

Avoid contact and inhalation.

##### Storage

##### Suitable

Keep container closed.

#### Section 8 - Exposure Controls / PPE

##### Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

##### Personal Protective Equipment

##### Respiratory

NIOSH/MSHA-approved respirator.

##### Hand

Compatible chemical-resistant gloves.

##### Eye

Chemical safety goggles.

##### General Hygiene Measures

Wash thoroughly after handling.

##### Exposure Limits, RTECS

<u>Country</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>	<u>Remarks</u>
USA	ACGIH	TWA	2 MG/M3	
USA	MSHA Standard-air	TWA	2 MG/M3	
USA	OSHA.	PEL	8H TWA 2 MG(SN)/M3	
New Zealand	OEL			check ACGIH TLV
USA	NIOSH	TWA	2 MG/M3	

#### Section 9 - Physical/Chemical Properties

##### Appearance

##### Physical State

Solid

**Molecular Weight:** 118.69 AMU

<u>Property</u>	<u>Value</u>
pH	N/A
BP/BP Range	N/A
MP/MP Range	231.9 °C

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Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	7.3 g/cm <sup>3</sup>
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	N/A
Flash Point °C	N/A
Explosion Limits	N/A
Autoignition Temp	N/A
Solubility	N/A

### Section 10 - Stability and Reactivity

#### Stability

##### Materials to Avoid

Strong oxidizing agents, Sulfur, Strong bases, Halogens.

#### Hazardous Decomposition Products

##### Hazardous Decomposition Products

Nature of decomposition products not known.

### Section 11 - Toxicological Information

#### Route of Exposure

##### Skin Contact

May cause skin irritation.

##### Eye Contact

May cause eye irritation.

##### Multiple Routes

May be harmful by inhalation, ingestion, or skin absorption.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: XP7320000

#### Chronic Exposure Carcinogen

Rat - Implant: 395 GM/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Mouse - Implant: 840 GM/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

### Section 12 - Ecological Information

### Section 13 - Disposal Considerations

#### Appropriate Method of Disposal of Substance or Preparation

Material in the elemental state should be recovered for reuse or recycling. Observe all federal, state, and local environmental regulations.

### Section 14 - Transport Information

#### DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

#### IATA

Proper Shipping Name: None

Non-Hazardous for Air Transport: Non-hazardous for air transport.

### Section 15 - Regulatory Information

#### US Classification and Label Text

##### Risk Statements

Irritating to eyes, respiratory system, and skin.

##### Safety Statements

Keep away from sources of ignition - no smoking. Take precautionary measures against static discharges. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection.

##### US Statements

Caution: Avoid contact and inhalation.

#### United States Regulatory Information

SARA 313 Listed: No

TSCA Inventory Item: Yes

### Section 16 - Other Information

#### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 1999 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.