**Material Safety Data Sheet**

**Section 1 - Product and Company Information**

- **Product Name**: TIN, GRANULE, -30 MESH, 99.5+%, A.C.S. REAGENT
- **Product Number**: 265667
- **Brand**: Aldrich Chemical
- **Company**: Sigma-Aldrich
- **Street Address**: 3050 Spruce Street
- **City, State, Zip, Country**: SAINT LOUIS, MO, 63103, US
- **Technical Phone**: 314 771 5765
- **Emergency Phone**: 414 273 3850 Ext.5996
- **Fax**: 602 326 5052

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

- **Substance Name**: TIN
- **CAS #**: 7440-31-6
- **SARA 313**: N
- **Formula**: Sn
- **Synonyms**: 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 COPOUS 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.

**Section 6 - Accidental Release Measures**

**Procedure(s) of Personal Precaution(s)**

- **Wear protective equipment.**

**Methods for Cleaning Up**

- **SPILL UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. VENTILATE AREA AND WASH SPILL sites 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.

**Section 9 - Physical/Chemical Properties**

- **Appearance**
  - **Physical State**: SOLID
- **Molecular Weight**: 118.69 AMU
- **Property**
  - **Value**
    - **pH**: N/A
    - **BP/BA Range**: N/A
    - **VP/MP Range**: 203.9 °C

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Section 10 - Stability and Reactivity

Stability
Materials to Avoid
Strong oxidizing agents, sulfur, strong bases, halogens.

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. Follow 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
Inhalation 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 eyes/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.