

Reviewed/Revised: April 2016

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### Section 1: Chemical Product and Company Identification

#### 1.1 Product Identifiers

Product name : Tin Concentrate  
CAS-No. : 7440-31-5  
EC Number : 231-141-8  
Product Type : Granule  
Chemical Name : Tin Concentrate

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemicals, Manufacture of substances

#### 1.3 Contact Information

Company : Platotex Technology Company Ltd.  
Level 21, The Centre 99 Queen's Road  
Central, Central, Hong Kong  
Tell : +852 2371-7679  
Fax : +852 2579-0808

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### Section 2: Composition and Information on Ingredients

#### 2.1 Composition

Name : Tin Concentrate  
CAS-No. : 7440-31-5  
% By Weight : 100

#### 2.2 Toxicological Data on Ingredients

No data available

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### Section 3: Hazards Identification

#### 3.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**  
Acute toxicity, Oral (Category 3)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**  
Toxic if swallowed.

#### 3.2 Hazard statement(s)

Very hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

#### 3.3 Potential Chronic Health Effects

Carcinogenic Effects : No data available  
Mutagenic Effects : No data available  
Teratogen Effects : No data available  
Developmental Toxicity : No data available

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### Section 4: First Aid Measures

#### 4.1 Eye Contact

No known effect on eye contact, rinse with water for a few minutes.

#### 4.2 Inhalation

Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### 4.3

#### Ingestion

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

#### 4.4

### **Skin Contact**

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

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### **Section 5: Fire and Explosion Data**

Flammability of the Product	:	May be combustible at high temperature.
Extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	:	Tellurium oxides
Fire Fighting Media	:	
Further information	:	Wear self-contained breathing apparatus for fire fighting if necessary. No data available

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### **Section 6: Accidental Release Measures**

#### **6.1 Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

#### **6.2**

#### **Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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### **Section 7: Handling and Storage**

#### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

#### **7.3 Specific end uses**

No data available

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### **Section 8: Exposure Controls/Personal Protection**

#### **8.1 Control parameters**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### **8.2**

#### **Personal Protection**

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

#### **8.3**

#### **Personal Protection in Case of a Large Spill**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

#### **8.4**

#### **Exposure Limits**

TWA: 0.1 (mg/m<sup>3</sup>) from ACGIH Consult local authorities for acceptable exposure limits.

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### **Section 9: Physical and Chemical Properties**

Appearance	:	Solid
Odor	:	Odorless.
Odor Threshold	:	no data available
PH	:	Not applicable.

Melting point/freezing point	:	450 °C - lit: (842°F)
Boiling point	:	990 °C - lit. (1814°F)
Flash point	:	Not applicable
Specific Gravity	:	6.24 (Water = 1)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or Explosive limits	:	No data available
Vapor pressure	:	No data available
Vapor density	:	No data available
Relative density	:	6,24 g/mL at 25 °C
Solubility	:	No data available

#### Section 10: Stability and Reactivity Data

Stability	:	The product is stable.
Instability Temperature	:	No data available
Conditions of Instability	:	No data available
Incompatibility with various Substances	:	Zinc, cadmium, Sodium/sodium oxides, Potassium, Strong acids, Strong bases,
Corrosivity	:	Halogens
Special Remarks on Reactivity	:	Non-corrosive in presence of glass.
Special Remarks on Corrosivity	:	No data available
Polymerization	:	No

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#### Section 11: Toxicological Information

##### 11.1 Information on toxicological effects

###### Acute toxicity

LD50 Oral - rat - 83 mg/kg.

###### Routes of Entry

Inhalation. Ingestion.

###### Chronic Effects on Humans

No data available

###### Other Toxic Effects on Humans

Very hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.

###### Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

###### Reproductive toxicity

Reproductive toxicity - rat - Intramuscular

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Central nervous system.

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Toxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system. Effects on Newborn: Other neonatal measures or effects.

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Central nervous system.

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Craniofacial (including nose and tongue).

Specific Developmental

Abnormalities: Musculoskeletal system.

###### Special Remarks on other Toxic Effects on Humans

No data available

###### Aspiration hazard

No data available

**Potential health effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

**Signs and Symptoms of Exposure**

Nausea, Headache, Vomiting, Central nervous system depression

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**Section 12: Ecological Information**

Eco toxicity	:	No data available
BOD5 and COD	:	No data available
Products of Biodegradation	:	Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.
Toxicity of the Products of Biodegradation	:	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	:	No data available
Other adverse effects	:	No data available

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**Section 13: Disposal Considerations****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

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**Section 14: Transport Information**

UN number	:	ADR/RID: - IMDG: - IATA: -
UN proper shipping name	:	ADR/RID: Not dangerous goods
	:	IMDG: Not dangerous goods
	:	IATA: Not dangerous goods
DOT Classification Identification	:	Not a DOT controlled material (United States).
Special Provisions for Transport	:	No data available

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**Section 15: Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available

**15.2****Chemical Safety Assessment**

No data available

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**Section 16: Other Information**

N/A