

# Safety Data Sheet

## Tin powder

Revision Date: 4/8/2019

Date Issued: 4/8/2019

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Tin powder  |
| <b>Product code</b>        | NM-0040   |
| <b>CAS</b>                 | 7440-31-5   |
| <b>REACH No. :</b>         | A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. |
| <b>Identified uses</b>     | Laboratory chemicals, Manufacture of substances   |
| <b>Supplier</b>            | IoLiTec<br>Ionic Liquids Technologies GmbH<br>Salzstrasse 184<br>D – 74076 Heilbronn<br>Germany   |
| <b>Telephone</b>           | +49 (0)7131-89839-0   |
| <b>Fax</b>                 | +49 (0)7131-89839-109   |
| <b>Emergency telephone</b> | +49 (0)176-84850874   |
| <b>Email</b>               | msds@iolitec.de   |

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable solids, Category 1, H228

Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation,  
Category 3, H335

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### Classification (67/548/EEC or 1999/45/EC)

Flammable metal powder

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008, GHS)

|  |   |
|--|---|
| Pictogram                                      |  |
| Signal word                                    | Warning   |
| Hazard statement(s)                            |   |
| H228   | Flammable solid.  |
| H335   | May cause respiratory irritation.   |
| Precautionary statement(s)                     |   |
| P210   | Keep away from heat/sparks/open flames/hot surfaces . - No smoking.               |
| P261   | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray .                           |
| P280   | Wear protectic gloves/protective clothing/eye protection/face protection.         |
| P370 + P378                                    | In case of fire: Use sand or fire extinguisher class D for extinction             |
| P422   | Store contents under nitrogen or argon.   |
| Caution - substance not yet tested completely. |   |
| Supplemental Hazard Statements                 | none  |

#### Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s)



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### R-phrases(s)

R15 Contact with water liberates extremely flammable gases.  
 R17 Spontaneously flammable in air.  
 R37 Irritating to respiratory system.

### S-phrases(s)

S6 Keep under Argon.  
 S9 Keep container in a well-ventilated place.  
 S16 Keep away from sources of ignition - No smoking.  
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Caution - substance not yet tested completely.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient name | Contents         | Health(Class) | Risk(R/No.)                     |
|-----------------|------------------|---------------|---------------------------------|
| Tin             | 99.7%            |               | Substance not yet fully tested! |
| Formula         | Molecular Weight |               |                                 |
| Sn              | 118.69 g/mol     |               |                                 |

## 4 FIRST AID MEASURES

**General** Contaminated clothing should be removed and washed before being reused.

**Inhalation** Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen.

**Ingestion** Immediately rinse mouth and provide fresh air. Get medical attention immediately.

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|             |   |
|-------------|---|
| <b>Skin</b> | Wash the skin immediately with water.   |
| <b>Eyes</b> | Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse for at least 15 minutes. |

### 5 FIRE FIGHTING MEASURES

|                                    |  |
|------------------------------------|--|
| <b>Extinguishing media</b>         | Use: Dry chemical powder, carbon dioxide, appropriate foam. Do not use water.                            |
| <b>Special risks</b>               | Material in powder form: risk of dust explosion. Emission of toxic fumes under fire conditions possible. |
| <b>Protective measures in fire</b> | Wear self-contained breathing apparatus and protective clothing.   |

### 6 ACCIDENTAL RELEASE MEASURES

|  |  |
|--|--|
| <b>Personal precautions during spill</b> | Evacuate area. Shut off all heat or ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear self-contained breathing apparatus, rubber boots and gloves. |
| <b>Spill cleanup methods</b>             | Avoid contact with skin or inhalation of spillage, dust or vapour, Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste.             |

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### 7 HANDLING AND STORAGE

|                                 |   |
|---------------------------------|---|
| <b>Usage precautions</b>        | Handle and store under nitrogen.<br>Avoid contact with eyes, skin and clothing.<br>Keep away from heat, sparks and open flame.<br>Do not use in confined spaces without adequate ventilation and/or respirator. |
| <b>Storage precautions</b>      | Store in a closed container at moderate temperatures in dry, well ventilated area.  |
| <b>Special storage criteria</b> | Store away from oxidizing and acidic materials.   |

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

|                                 |  |
|---------------------------------|--|
| <b>Protective equipment</b>     | Safety goggles. Chemical resident gloves.<br>Protective clothing. Protective mask when high concentrations are present.            |
| <b>Process control measures</b> | Provide eyewash station and safety shower.<br>Use engineering controls to reduce air contamination to permissible exposure levels. |
| <b>Ventilation</b>              | Provide adequate general and local exhaust ventilation.  |
| <b>Respirators</b>              | Use high efficiency particulate respirator with appropriate filter when high concentrations are presents                           |
| <b>Exposure limits Sn</b>       | <b>mg/m<sup>3</sup></b>  |
| Poland NDS                      | 2  |
| Denmark TWA                     | 2  |
| Germany OEL                     | 2  |
| Switzerland OEL                 | 2  |

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### GERMANY: TECHNICAL INSTRUCTIONS ON AIR QUALITY CONTROL (TA LUFT)

Overall Dust, including fine dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:

Mass flow: 0,20 kg/hr

Mass conc.: 20 mg/m<sup>3</sup>

The mass per unit volume of 0,15 g/m<sup>3</sup> in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

|                      |                              |
|----------------------|------------------------------|
| <b>Appearance</b>    | Solid                        |
| <b>Color</b>         | Black                        |
| <b>Odor/taste</b>    | No characteristic odor.      |
| <b>Melting Point</b> | ~232°C                       |
| <b>Flammability</b>  | Highly flammable             |
| <b>Density</b>       | 7.3 g/cm <sup>3</sup> (20°C) |
| <b>Water</b>         | Insoluble                    |

## 10 STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Stability</b>                        | No particular stability concerns if handled according to specifications. |
| <b>Conditions to avoid</b>              | Air, moisture, oxidizing agents, acids, strong bases, sulfur, halogens   |
| <b>Hazardous Decomposition Products</b> | Metal oxide fume.  |

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## 11 TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### Aspiration hazard

no data available

### Potential health effects

#### Ingestion

Harmful if swallowed.

#### Inhalation

Harmful to mucous membranes.

#### Skin

Irritating

#### Eyes

Irritating

#### Chronic exposure

Carcinogen

### Additional Information

RTECS: Not available

**Full Data on the toxicity of this product are not available. Hazardous properties cannot be excluded.**

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### 12 ECOLOGICAL INFORMATION

**Environmental hazards**

Avoid washing into water courses. Avoid contaminating public drains or water supply.

### 13 DISPOSAL CONSIDERATIONS

**Disposal method**

Contact specialist disposal companies.  
Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

### 14 TRANSPORT INFORMATION

**UN number:** UN 3089

**UN proper shipping name**

ADR/RID: METAL POWDER, FLAMMABLE, N.O.S.  
(TIN)

IMDG: METAL POWDER, FLAMMABLE, N.O.S.  
(TIN)

IATA: Metal powder, flammable, n.o.s. (tin)

**Transport hazard class(es)**

ADR/RID: 4.1

IMDG: 4.1

IATA: 4.1

**Packaging group**

ADR/RID: II

IMDG: II

IATA: II



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### Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### Special precautions for user

no data available.

## 15 REGULATORY INFORMATION

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

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

no data available

### Chemical Safety Assessment

no data available

### Country specific information:

#### Germany

Classification according to German Regulation WGK2 (self classification);  
hazardous to waters

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## 16 OTHER INFORMATION

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