SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

Tin-pellets

Substance name  tin

Identification numbers

CAS no. 7440-31-5
EC no. 231-141-8

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

Relevant identified uses of the substance or mixture

chemical analysis

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

ELTRA GmbH
Retsch-Allee 1-5

42781 Haan
GERMANY

Telephone no. +49 (0) 2104 23 33-400
Fax no. +49 (0) 2104 23 33-499

Information provided by / telephone

+49 (0) 2104 23 33-192

Advice on Safety Data Sheet

info@eltra.com

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0) 551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

Not relevant

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical characterization

Substance name  tin

Formula  Sn

Identification numbers

CAS no. 7440-31-5
EC no. 231-141-8

3.2 Mixtures

Not applicable. The product is not a mixture.
3.3 Other information
This product is an article in the sense of article 3 of the European Chemicals Regulation (REACH) 1907/2006/EC and therefore not subject to the labelling obligations according to the EU regulation 1272/2008 (CLP). Submission of a safety data sheet is not mandatory for articles and is done on a voluntary basis.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information
In case of persisting adverse effects, consult a physician.

After inhalation
Fresh air. Get medical attention if pain still persists.

After skin contact
Wash off with soap and water.

After eye contact
Separate eyelids, wash the eyes thoroughly with water (15 min.). Begin with medical treatment.

After ingestion
Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed
No data available.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Sand; Extinguishing measures to suit surroundings.

Unsuitable extinguishing media
No data available.

5.2 Special hazards arising from the substance or mixture
In the event of fire, the following can be released: Tin oxides

5.3 Advice for firefighters
Use self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Refer to protective measures listed in sections 7 and 8.

For emergency responders
No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions
No special measures necessary.

6.3 Methods and material for containment and cleaning up
Take up mechanically. Send in suitable containers for recovery or disposal.

6.4 Reference to other sections
No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling
Provide exhaust ventilation if dust is formed. No special measures necessary if used correctly.

General protective and hygiene measures
Do not eat or drink during work - no smoking. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work.

Advice on protection against fire and explosion
No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels
No special measures required.

Incompatible products
Do not store together with: Acids; Alkalis

7.3 Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
No parameters available for monitoring.

8.2 Exposure controls

Appropriate engineering controls
Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment

Respiratory protection
No special measures required.

Eye / face protection
Safety glasses (EN 166)

Hand protection
No special measures required. Protective gloves (recommended)

Environmental exposure controls
No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form/Colour</td>
<td>solid</td>
</tr>
<tr>
<td></td>
<td>silverwhite</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data</td>
</tr>
<tr>
<td>pH value</td>
<td>No data</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>2770 °C</td>
</tr>
<tr>
<td>Melting point / melting range</td>
<td>232 °C</td>
</tr>
<tr>
<td>Decomposition point / decomposition range</td>
<td></td>
</tr>
</tbody>
</table>
## Flash point
Not applicable

## Auto-ignition temperature
No data available

## Oxidising properties
No data available

## Explosive properties
No data available

## Flammability (solid, gas)
No data available

## Lower flammability or explosive limits
No data available

## Upper flammability or explosive limits
No data available

## Vapour pressure
No data available

## Vapour density
No data available

## Evaporation rate
No data available

## Relative density
No data available

<table>
<thead>
<tr>
<th>Density</th>
<th>Value</th>
<th>g/cm³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7.3</td>
<td></td>
</tr>
</tbody>
</table>

## Solubility in water
Comments: insoluble

## Solubility(ies)
No data available

## Partition coefficient: n-octanol/water
No data available

## Viscosity
No data available

### 9.2 Other information
Other information
No data available.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity
No data available.

#### 10.2 Chemical stability
Stable if stored and handled properly.

#### 10.3 Possibility of hazardous reactions
No data available.

#### 10.4 Conditions to avoid
Heat

#### 10.5 Incompatible materials
Oxidizing agents; Acids; Bases

10.6 Hazardous decomposition products
Fumes of metal oxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Acute inhalational toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproduction toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics
Eye contact may cause mechanical irritation through dust particles.

Other information
Take the precautions customary when handling chemicals.

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to fish (acute)</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to fish (chronic)</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to Daphnia (acute)</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to Daphnia (chronic)</td>
<td>No data available</td>
</tr>
<tr>
<td>Toxicity to algae (acute)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Toxicity to algae (chronic)
No data available

Bacteria toxicity
No data available

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential
No data available.

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment
No data available.

12.6 Other adverse effects
No data available.

12.7 Other information
Ecological data are not available.
Do not let the product into drains or waterways and do not store on public depositories.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Provide for recycling by the manufacturer or send to an authorised special waste facility or treatment facility adhering to the Special Waste Regulations.
Generally, chemical residuals must be handled and disposed of as special waste. Please contact the competent authority that provides information for proper disposal, recycling or reclamation of the substance.

Packaging
Dispose of in accordance with federal, state and local regulations. Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN
The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG
The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA
The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information
No data available.

14.5 Environmental hazards
Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user
No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not relevant

SECTION 15: Regulatory information

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

Trade name: Tin-pellets

Current version: 2.0.1, issued: 31.01.2020  Replaced version: 2.0.0, issued: 22.08.2018  Region: GB

**EU regulations**


In accordance with the Reach regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").


The substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This substance is not subject to Part I or 2 of Annex I.

15.2 **Chemical safety assessment**

No data available.

**SECTION 16: Other information**

**Further information**

Article no. 90251, 454 g

**Sources of key data used to compile the data sheet:**

- National Threshold Limit Values of the corresponding countries as amended in each case.
- Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
- The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

**Department issuing safety data sheet**

UMCO GmbH
Georg-Wilhelm-Str. 187, D-21107 Hamburg
Tel.: +49 40 / 555 546 300  Fax: +49 40 / 555 546 357  e-mail: umco@umco.de

**Contact person**

For technical information please contact:
Dr. Stefan Degen, Tel. +49 (0)5326 / 507 - 422
stefan.degen@recylex.de

This information is based on our present knowledge and experience.
The safety data sheet describes products with a view to safety requirements.
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 640109