

# Material Safety Data Sheet

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## 1. Product & Company Identification

<b>Product:</b>	Solder wire
<b>Manufacturer:</b>	Conrad Electronic SE
<b>Address:</b>	Klaus-Conrad-Str. 1, D-92240 Hirschau
<b>Telephone:</b>	+49 (0) 9604 / 40 - 8988
<b>Date of issue:</b>	18.07.2019

### 1.1 Product identifier

Trade name: Solder wire

Registration number: Data not available

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

Application of the substance/ mixture: Used for soldering.

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to regulation (EC) 1272/2008:**

The product is not classified according to CLP Regulation.

**Classification system:**

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

### 2.2 Label elements

**Labeling according to Regulation (EC) No 1272/2008:**

Not applicable

**Hazard pictograms:**

Not applicable

**Signal word:**

Not applicable

**Hazard statements:**

Not applicable

**Precautionary statement:**

Not applicable

### 2.3 Other hazards

**Results of PBT and vPvB assessment:**

PBT: Not applicable

PvB: Not applicable

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### 3. Composition/information on ingredients

#### 3.1 Chemical characterization

Mixture

#### **Description:**

Mixture of the substances listed below with nonhazardous additions. · Component:

CAS No. / EC No.	Chemical name	Weight
CAS No.: 7440-31-5 EC No.: 231-141-8	Tin	99.3%
CAS No.: 7440-50-8 EC No.: 231-159-6	Copper	0.7%

### 4. First aid measures

#### 4.1 Description of first aid measures

##### **General advice:**

No special immediate medical attention or special treatment required.

##### **After inhalation:**

Supple with fresh air; Consult doctor if you feel unwell.

##### **After skin contact:**

No special measures required normally.

##### **After eye contact:**

Rinse eyes with water. If eye irritation persists: Get medical advice/attention.

##### **After swallowing:**

Rinse mouth with water. Consult doctor if you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed

There are not any known symptoms and effects.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No special medical attention or specialtreatment required.

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## 5. Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:**

Not flammable solid, use the suitable extinguishing agent surrounding condition.

### 5.2 Special hazards arising from the substance or mixture

No special hazard arising from the mixture.

### 5.3 Advice for firefighters

**Protective equipment:**

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Cut off leakage source and collect spillage; Ensure adequate ventilation.

### 6.2 Environmental precautions

Do not allow the product to enter sewers/surface or ground water; Inform respective authorities in case of seepage into water course or sewage system.

### 6.3 Methods and material for containment and cleaning up

Pick up mechanically; Dispose contaminated material as waste according to section 13.

### 6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

## 7. Handling and storage

### 7.1 Precautions for safe handling

No special precaution required.

**Information about fire and explosion protection:**

Normal measures for preventive fire protection.

### 7.2 Conditions for safe storage, including any non-compatibility

**Requirements to be met by storerooms and receptacles:**

Store in a dry and well-ventilation place.

**Information about storage in one common storage facility:**

Keep from acid.

**Further information about storage conditions:**

Store locked up.

### 7.3 Specific end use(s)

Used for soldering.

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### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs: Data not available.

PNECs: Data not available.

#### **Additional information:**

The lists valid during the marking were used as basis.

#### 8.2 Exposure controls

Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.

#### **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work; See section 7 for information about design of technical facilities.

#### **Personal protective equipment:**

##### **Respiration protection:**

Dust mask is recommended.

##### **Protection of hands:**

No special protection of hands required.

##### **Eye protection:**

No special eye protection required.

##### **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

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### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance:

Form	Solid
Color	Silver white
Odor	Odorless
Odor threshold	Not applicable
pH-value	Not applicable
Change in condition	Melting point/melting range 231.9 - 231.93 °C
Boiling point and boiling range	2507 °C
Freezing point	Not determined
Flash point	Not applicable
Flammability (solid, gas)	Not flammable solid
Decomposition temperature	Not determined
Self-ignition	Product is not self-igniting
Danger of explosion	Product does not present explosive hazard
Explosion limits	Lower: Not explosive Upper: Not explosive
Oxidizing properties	No oxidation
Vapor pressure	Not determined
Density	Not determined
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with Water	4 µg/L at 20 °C and pH 6.5 - 7.7
Partition coefficient	(n-octanol/water) Not determined
ViscosityDynamic	Not applicable
Kinematic	Not applicable

#### 9.2 Other information

Data not available

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### **10. Stability and reactivity**

#### **10.1 Reactivity**

No decomposition if used according to specification.

#### **10.2 Chemical stability**

Stable under recommended storage conditions.

#### **10.3 Possibility of hazardous reactions**

No further relevant information available.

#### **10.4 Conditions to avoid**

Moisture condition.

#### **10.5 Incompatible materials**

Strong acid.

#### **10.6 Hazardous decomposition products**

No known hazardous decomposition products.

### **11. Toxicological information**

#### **11.1 Information on toxicological effects**

##### **Acute toxicity:**

Based on available data, the classification criteria are not met.

##### **LD/LC50 values relevant for classification:**

No animal test has been done for this product or the components.

##### **Skin corrosion/irritation:**

Based on available data, the classification criteria are not met.

##### **Serious eyes damage/ irritation:**

Based on available data, the classification criteria are not met.

##### **Respiratory or skin sensitization:**

Based on available data, the classification criteria are not met.

##### **Germ cell mutagenicity:**

Based on available data, the classification criteria are not met.

##### **Carcinogenicity:**

Based on available data, the classification criteria are not met.

##### **Reproductive toxicity:**

Based on available data, the classification criteria are not met.

##### **STOT-single exposure:**

Based on available data, the classification criteria are not met.

##### **STOT-repeated exposure:**

Based on available data, the classification criteria are not met.

##### **Aspiration hazard:**

Based on available data, the classification criteria are not met.

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### **12. Ecological information**

#### **12.1 Toxicity**

**Aquatic toxicity:**

Not hazardous to aquatic environment.

#### **12.2 Persistence and degradability**

Inorganic substance

#### **12.3 Bio-accumulative potential**

Low bio-accumulation.

#### **12.4 Mobility in soil**

Low mobility in soil.

#### **12.5 Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

#### **12.6 Other adverse effects**

No further relevant information available.

#### **12.7 Additional ecological information**

**General notes:**

Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water. Do not allow large quantities of the product to reach ground water, water course or sewage system.

### **13. Disposal consideration**

#### **13.1 Waste treatment methods**

**Recommendation:**

Small quantities can be disposed together with household garbage; Large quantities disposed must be in according to the local regulation.

#### **13.2 Un-cleaned packaging**

**Recommendation:**

Dispose of contents/container in according to the local/regional/national/ international regulation.

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### 14. Transport information

#### 14.1 UN-Number

ADR, RID, ADN, IMDG, IATA

Not regulated as dangerous transport goods

#### 14.2 UN proper shipping name

ADR, RID, ADN, IMDG, IATA

Void

#### 14.3 Transport hazard class (es)

ADR, RID, ADN, IMDG, IATA

Class: Void

Label: Void

#### 14.4 Packing group

ADR, RID, ADN, IMDG, IATA

Void

#### 14.5 Marine pollution

No

#### 14.6 Special precautions for user

Danger code (Kemler): Void

EMS Number: Void

#### 14.7 UN "Model Regulation"

Void

### 15. Regulatory information

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

**MAK (German Maximum Workplace Concentration):** None of the ingredients is listed.

**Directive 2012/18/EU**

**Named dangerous substances-ANNEX I:** None of the ingredients is listed.

**National regulations**

**Water hazard class:** Water hazard class 1 (German Regulation) (self-assessment): None of the ingredients is listed.

**Other regulations, limitations and prohibitive regulations**

**SVHC Candidate list of REACH Regulation Annex XIV Authorization:** None of the ingredients is listed.

**REACH Regulation Annex XVII Restriction:** None of the ingredients is listed.

**REACH Regulation Annex XIV Authorization List:** None of the ingredients is listed.

#### 15.2 Chemical safety assessment

A Chemical Safe Assessment has not been carried out.



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### 16. Other information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

#### **DISCLAIMER OF LIABILITY:**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

#### **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

DNEL: Derived No-Effect Level (REACH).

PNEC: Predicted No-Effect Concentration (REACH).

PBT: Persistent, Bio accumulative and Toxic.

SVHC: Substance of Very High Concern.

LD50: Lethal dose, 50 percent.

LC50: Lethal concentration, 50 percent.