

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- Trade name: **Wieland S28**
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation: Semi-finished product
- **Details of the supplier of the safety data sheet**
- Manufacturer/Supplier:  
Wieland-Werke AG  
Graf-Arco-Straße 36  
89079 Ulm (Germany)  
Tel.: +49 (0)731/944-0  
Fax: +49 (0)731/944-2799
- Information department:  
Department testing laboratories  
michael.ebner@wieland.de
- Emergency telephone number:  
Factory security offices  
Phone: +49 (0) 731-944-3706

## 2 Hazards identification

- **Classification of the substance or mixture**
- Classification according to Regulation (EC) No 1272/2008 (CLP-Regulation):  
For products there is no obligation to classify acc. to CLP -Regulation.  
The product is not classified according to the CLP regulation.
- 
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.
- Information concerning particular hazards for human and environment:  
The product does not have to be labelled due to the calculation procedure of international guidelines.
- Classification system: Not applicable
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- **Label elements**
- Labelling according to Regulation (EC) No 1272/2008: Void
- Hazard pictograms: Void
- Signal word: Void
- Hazard-determining components of labelling: Void
- Hazard statements: Void
- **Other hazards**
- Semi-finished products from copper or copper-alloys, as offered for sale as manufactured present no health hazard to man or for the aquatic environment.
- Results of PBT and vPvB assessment
- PBT: Not applicable to metals
- vPvB: Not applicable to metals.

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- Description: Metal in compact form.
- UNS-number: C44300
- Information:

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The classifications mentioned below reflect the respective pure substance and are for information only.

Copper alloys are special preparations according to Regulation (EC) 1907/2006 (REACH Regulation).

The classification of a pure substance is not applicable to its use as element of a copper alloy.

· Components:		
CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	70.0-72.5%
CAS: 7440-31-5 EINECS: 231-141-8 RTECS: XP 7320000	tin	0.9-1.3%
CAS: 7440-38-2 EINECS: 231-148-6 RTECS: CG 0525000	arsenic ⚠ Acute Tox. 3, H301; Acute Tox. 3, H331; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.02-0.06%
· CAS: 7440-66-6 EINECS: 231-175-3 RTECS: ZG 8600000	zinc	balance%

#### 4 First aid measures

##### · Description of first aid measures

##### · General information:

No special measures required.

First Aid information refer to any dust which is generated.

##### · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

##### · After skin contact: Immediately wash with water and soap and rinse thoroughly.

##### · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

##### · After swallowing: Rinse out mouth and then drink plenty of water.

##### · Information for doctor:

##### · Most important symptoms and effects, both acute and delayed:

No further relevant information available.

##### · Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

#### 5 Firefighting measures

##### · Extinguishing media

##### · Suitable extinguishing agents:

Non-flammable. Use fire fighting measures that suit the environment.

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

No further relevant information available.

##### · Advice for firefighters

Protective equipment: No special measures required.

#### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:** Not required.

· **Environmental precautions:** Not required

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- **Methods and material for containment and cleaning up:**  
Dispose of the collected material according to regulations.
- **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

- **Handling:**
  - Precautions for safe handling: No special measures required.
  - Information about protection against explosions and fires: No special measures required.
- **Conditions for safe storage, including any incompatibilities**
  - Storage:
    - Requirements to be met by storerooms and receptacles: No special requirements.
    - Further information about storage conditions: None.
  - **Specific end use(s):** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- Components with limit values that require monitoring at the workplace:

### 7440-50-8 copper

PEL	1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL	1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV	1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu

### 7440-31-5 tin

PEL	2 mg/m <sup>3</sup> metal
REL	2 mg/m <sup>3</sup>
TLV	2 mg/m <sup>3</sup> metal

- Additional Occupational Exposure Limit Values for possible hazards during processing:

### 1314-13-2 zinc oxide

PEL	15* 5** 5*** mg/m <sup>3</sup> *total dust **respirable dust ***fume
REL	Short-term value: C 15* 10** mg/m <sup>3</sup> Long-term value: 5* 5** mg/m <sup>3</sup> *dust only **fume
TLV	Short-term value: 10* mg/m <sup>3</sup> Long-term value: 2* mg/m <sup>3</sup> *as respirable fraction

- Additional information: The lists that were valid during the creation were used as basis.

- **Exposure controls**
  - Personal protective equipment:
  - General protective and hygienic measures:  
Wash hands before breaks and at the end of work.

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- Do not inhale dust / smoke / mist.
- Breathing equipment: Use a suitable industrial gas mask when work-place-limits are exceeded.
- Protection of hands:
  - Protective gloves are recommended, depending upon how the semis are further processed.
- Eye protection:
  - Protective goggles are recommended, depending upon how the semis are further processed.
- Body protection:
  - Wear suitable protective clothing, depending upon how the semis are further processed.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

- General Information
- Appearance:
 

Form:	Solid
Color:	metallic-yellow
- Odor: Odorless
- Odour threshold: Not determined.
- Change in condition
 

Melting point/Melting range:	890-975°C (1634-1787 °F ) (Lit.)
Boiling point/Boiling range:	Undetermined.
- Flash point: Not applicable.
- Danger of explosion: Product does not present an explosion hazard.
- Density at 20°C (68 °F): 8.56 g/cm<sup>3</sup> (71.433 lbs/ga l) (Lit.)
- Solubility in / Miscibility with
 

Water:	Not soluble.
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- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity:** Not applicable.
- Chemical stability: Not applicable.
- Thermal decomposition / conditions to be avoided:
  - No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- Acute toxicity:
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

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- Additional toxicological information:  
When used and handled according to specifications, the article does not have any harmful effects to our experience and the information provided to us.

## 12 Ecological information

- **Toxicity**
- Aquatic toxicity: No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- **Additional ecological information**
- General notes:  
For semi-finished products in copper or copper-alloys no information regarding ecology is suitable, as it is not soluble in water.
- **Results of PBT and vPvB assessment**
- PBT: Not applicable to metals.
- vPvB: Not applicable to metals.
- **Other adverse effects:** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- Recommendation: Contact manufacturer for recycling information.

## 14 Transport information

- |   |                 |
|---|-----------------|
| · <b>UN-Number</b><br>· DOT, ADR, ADN, IMDG, IATA                                 | Void            |
| · <b>UN proper shipping name</b><br>· ADR, ADN                                    | Void            |
| · <b>Transport hazard class(es)</b><br>· DOT, ADR, ADN, IMDG, IATA<br>· Class     | Void            |
| · <b>Packing group</b><br>· DOT, ADR, IMDG, IATA                                  | Void            |
| · <b>Environmental hazards:</b><br>· Marine pollutant:                            | No              |
| · <b>Special precautions for user:</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable. |

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### 15 Regulatory information

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

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- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):

7440-50-8 copper

7440-66-6 zinc

7440-38-2 arsenic

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65

- Chemicals known to cause cancer:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Cancerogenity categories

- EPA (Environmental Protection Agency)

7440-50-8 copper

D

7440-66-6 zinc

II

7440-38-2 arsenic

A

- IARC (International Agency for Research on Cancer)

7440-38-2 arsenic

1

- NTP (National Toxicology Program)

7440-38-2 arsenic

K

- TLV (Threshold Limit Value established by ACGIH)

7440-38-2 arsenic

A1

- NIOSH-Ca (National Institute for Occupational Safety and Health)

7440-38-2 arsenic

- OSHA-Ca (Occupational Safety & Health Administration)

7440-38-2 arsenic

- Chemical safety assessment void.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific article features and shall not establish a legally valid contractual relationship

- **Department issuing MSDS:** Department testing laboratories

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- **Contact:**  
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- \* Data compared to the previous version altered.

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