1 Identification

1.1 Product identifier
- Trade name: Wieland S76

1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- Application of the substance / the preparation: Semi-finished product

1.3 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
- 1.4 Emergency telephone number:
  Factory security offices
  Phone: +49 (0) 731-944-3706

2 Hazard(s) identification

2.1 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.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008: Void
- Hazard pictograms: Void
- Signal word: Void
- Hazard-determining components of labeling: Void
- Hazard statements: Void

2.3 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

3.2 Chemical characterization: Mixtures
- Description: Metal in compact form.
- UNS-number: C68700
- Information:
  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.

(Contd. on page 2)
Trade name: Wieland S76

### 4 First-aid measures

#### 4.1 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.

#### 4.2 Most important symptoms and effects, both acute and delayed:
No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

### 5 Fire-fighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing agents:
  - Non-flammable. Use fire fighting measures that suit the environment.

#### 5.2 Special hazards arising from the substance or mixture
No further relevant information available.

#### 5.3 Advice for firefighters

- Protective equipment: No special measures required.

### 6 Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:
Not required.

#### 6.2 Environmental precautions:
Not required.

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

#### 6.4 Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
Trade name: Wieland S76

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling: No special measures required.
7.2 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.
7.3 Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL Long-term value: 1* 0.1** mg/m³ as Cu</th>
<th>REL Long-term value: 1* 0.1** mg/m³ as Cu</th>
<th>TLV Long-term value: 1* 0.2** mg/m³ as dusts and mists, **fume as Cu</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-50-8 copper</td>
<td>dusts and mists</td>
<td>dusts and mists</td>
<td>dusts and mists</td>
</tr>
<tr>
<td>7429-90-5 aluminium</td>
<td>total dust</td>
<td>Respirable fraction and fume</td>
<td>fume</td>
</tr>
<tr>
<td>1314-13-2 zinc oxide</td>
<td>total dust</td>
<td>Respirable fraction and fume</td>
<td>fume</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:
  Wash hands before breaks and at the end of work.
  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.
### 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties
- **General Information**
  - **Appearance:**
    - Form: Solid
    - Color: metallic-yellow
  - **Odor:** Odorless
  - **Odor threshold:** Not determined.

- **Change in condition**
  - Melting point/Melting range: 930-970 °C (1706-1778 °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):** 8.35 g/cm³ (69.681 lbs/gal) (Lit.)

- **Solubility in / Miscibility with**
  - Water: Not soluble.

#### 9.2 Other information
No further relevant information available.

### 10 Stability and reactivity

- **10.1 Reactivity:** Not applicable.

- **10.2 Chemical stability:** Not applicable.

- **Thermal decomposition / conditions to be avoided:**
  - No decomposition if used according to specifications.

- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.

- **10.4 Conditions to avoid:** No further relevant information available.

- **10.5 Incompatible materials:** No further relevant information available.

- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity:** Based on available data, the classification criteria are not met.
  - **Primary irritant effect:**
    - on the skin: Based on available data, the classification criteria are not met.
  - **Sensitization:** Based on available data, the classification criteria are not met.
  - **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.

- **Carcinogenic categories**
  - IARC (International Agency for Research on Cancer)
    - 7440-38-2 arsenic

(Contd. on page 5)
12 Ecological information

- **12.1 Toxicity**
  - Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability**:
  - No further relevant information available.
- **12.3 Bioaccumulative potential**:
  - No further relevant information available.
- **12.4 Mobility in soil**:
  - No further relevant information available.
- Ecotoxic effects:
  - Remark: Toxic for fish
- 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.
  - Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
  - PBT: Not applicable to metals.
  - vPvB: Not applicable to metals.
- **12.6 Other adverse effects**:
  - No further relevant information available.

13 Disposal considerations

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

14 Transport information

- **14.1 UN-Number**
  - DOT, ADR, ADN, IMDG, IATA: Void
- **14.2 UN proper shipping name**
  - DOT, ADR, ADN, IMDG, IATA: Void
- **14.3 Transport hazard class(es)**
  - DOT, ADR, ADN, IMDG, IATA: Void
  - Class: Void
- **14.4 Packing group**
  - DOT, ADR, IMDG, IATA: Void
- **14.5 Environmental hazards**:
  - Marine pollutant: No
- **14.6 Special precautions for user**:
  - Not applicable.
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**:
  - Not applicable.
15 Regulatory information

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

- Sara
  - Section 355 (extremely hazardous substances):
    None of the ingredients is listed.
  - Section 313 (Specific toxic chemical listings):
    All ingredients are listed.
  - TSCA (Toxic Substances Control Act):
    All ingredients are listed.
  - Proposition 65
    - Chemicals known to cause cancer:
      7440-38-2 arsenic
  - 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 D, I, II
    7440-38-2 arsenic A
  - TLV (Threshold Limit Value established by ACGIH)
    7429-90-5 aluminium A4
    7440-38-2 arsenic A1
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    7440-38-2 arsenic

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 SDS: Department testing laboratories
- Contact:
  Dr. Michael Ebner
  Phone (+)49 (0)731/944-3706
- Date of preparation / last revision 08/24/2017 / 8
- * Data compared to the previous version altered.