1 Identification

- **1.1 Product identifier**
  - Trade name: **Wieland S30**

- **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.

- **2.4 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: C44750
  - 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 S30

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.
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

· Additional information about design of technical systems: No further data; see item 7.

· 8.1 Control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-50-8 copper</td>
<td>Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume</td>
<td>Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume</td>
<td>Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume; as Cu</td>
</tr>
<tr>
<td>7440-31-5 tin</td>
<td>Long-term value: 2 mg/m³ metal</td>
<td>Long-term value: 2 mg/m³</td>
<td>Long-term value: 2 mg/m³ metal</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1314-13-2 zinc oxide</td>
<td>Long-term value: 15* 5** mg/m³ *total dust **respirable fraction and fume</td>
<td>Short-term value: 10** mg/m³ Long-term value: 5 mg/m³ Ceiling limit value: 15* mg/m³ *dust only **fume</td>
<td>Short-term value: 10* mg/m³ Long-term value: 2* mg/m³ *as respirable fraction</td>
</tr>
</tbody>
</table>

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

· 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.
9.1 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: 912-937 °C (1674-1719 °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): 8.54 g/cm³ (71.266 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.
    - on the eye: 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)
      None of the ingredients is listed.

(Contd. on page 5)
· NTP (National Toxicology Program)
  None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
  None of the ingredients is listed.

### 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.

#### Ecotoxicological effects:
- Remark: Very 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.

Very 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
  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):
    7440-50-8 copper
    7440-66-6 zinc

  - 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 D, I, II

    - TLV (Threshold Limit Value established by ACGIH)
      None of the ingredients is listed.

  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

  - 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 SDS: Department testing laboratories
- Contact:
  Dr. Michael Ebner
  Phone (+)49 (0)731/944-3706
- Date of preparation / last revision 08/24/2017 / 3
- * Data compared to the previous version altered.