1 Identification

1.1 Product identifier
- Trade name: Wieland-LS6

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

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Wieland-Werke AG
  Graf-Arco-Str. 36
  89079 Ulm
- Information department: Associations & Management Systems
  stefan.priggemeyer@wieland.com

1.4 Emergency telephone number: +49 731 944 2794 (Monday - Friday from 9 a.m. to 4 p.m.)

2 Hazard(s) identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 (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

- Description: Metal in compact form.
- UNS-number: -
- Information:
  The classifications listed below reflect the classification of the relevant alloying constituents and are only for information.
  Mentioned percentages are references values.
- Components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>UNS</th>
<th>RTECS</th>
<th>Balance%</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-50-8</td>
<td>231-159-6</td>
<td>GL 5325000</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 2)
Trade name: Wieland-LS6

| CAS: 7440-02-0 | nickel | 6% |
| CAS: 7440-31-5 | tin | 6% |
| CAS: 7439-92-1 | lead | max.0,05% |

4 First-aid measures

4.1 Description of first aid measures

4.2 Most important symptoms and effects, both acute and delayed:
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.

6 Accidental release measures

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

6.2 Environmental precautions: Not required
Trade name: Wieland-LS6

6.3 Methods and material for containment and cleaning up:
Collect the material and if necessary dispose it 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 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: Store in dry conditions.

7.3 Specific end use(s):
No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters
Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-02-0 nickel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>Long-term value: 1 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A</td>
<td></td>
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</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 1.5* mg/m³ elemental, *inhalable fraction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-31-5 tin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>Long-term value: 2 mg/m³ metal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 2 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 2 mg/m³ metal</td>
<td></td>
<td></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:
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale dust / smoke / mist.
Breathing equipment: Use a suitable industrial gas mask when work-place-limits are exceeded.
Trade name: Wieland-LS6

- Protection of hands:
  Protective gloves are recommended, depending upon how the semis are further processed.
- Material of gloves neoprene or leather
- Body protection:
  Wear suitable protective clothing, 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: Silver grey
  - Odor: Odorless
  - Odor threshold: Not determined.
  - Change in condition
    - Melting point/Melting range: 965-1070 °C (1769-1958 °F)
    - 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): 8.9 g/cm³ (74.2705 lbs/gal)
  - Solubility in / Miscibility with
    - Water: Not soluble.
    - VOC content: 0.00 %
- 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

- General information:
  The solid product does not pose a health hazard if handled properly.

  Effect on the skin: No effects.
Effect on eyes: No effects.
Sensitization: Due to the nickel content avoid direct and prolonged skin contact.

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.
  · General notes: Semi-finished articles from copper and copper-alloys are not soluble in water.

· 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.
  · Waste disposal key:
    12 01 03: Non-ferrous metal fillings and turnings
    16 01 18: Non-ferrous metal for non-contaminated waste

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: 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
    - 7440-02-0 nickel
    - 7439-92-1 lead

- **TSCA (Toxic Substances Control Act):**
  - 7440-50-8 copper ACTIVE
  - 7440-02-0 nickel ACTIVE
  - 7440-31-5 tin ACTIVE
  - 7439-92-1 lead ACTIVE

- **Hazardous Air Pollutants:**
  - 7439-92-1 lead

- **Proposition 65**
  - **Chemicals known to cause cancer:**
    - 7440-02-0 nickel
    - 7439-92-1 lead
  - **Chemicals known to cause reproductive toxicity for females:**
    - 7439-92-1 lead
  - **Chemicals known to cause reproductive toxicity for males:**
    - 7439-92-1 lead
  - **Chemicals known to cause developmental toxicity:**
    - 7439-92-1 lead

- **Cancerogenity categories**
  - **EPA (Environmental Protection Agency):**
    - 7440-50-8 copper D
    - 7439-92-1 lead B2
### Trade name: Wieland-LS6

<table>
<thead>
<tr>
<th>· TLV (Threshold Limit Value established by ACGIH):</th>
</tr>
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<tbody>
<tr>
<td>7440-02-0 nickel A5</td>
</tr>
<tr>
<td>7439-92-1 lead A3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· NIOSH-Ca (National Institute for Occupational Safety and Health):</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-02-0 nickel</td>
</tr>
</tbody>
</table>

· Chemical safety assessment: void.

<table>
<thead>
<tr>
<th>16 Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>This information is based on our present knowledge. However, this shall not constitute</td>
</tr>
<tr>
<td>a guarantee for any specific article features and shall not establish a legally valid</td>
</tr>
<tr>
<td>contractual relationship.</td>
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<tr>
<td>· Department issuing SDS: Associations &amp; Management Systems</td>
</tr>
<tr>
<td>· Contact:</td>
</tr>
<tr>
<td>Dr. Stefan Priggemeyer</td>
</tr>
<tr>
<td>Phone +49 731 944 2794</td>
</tr>
<tr>
<td>· Date of preparation / last revision 02/17/2021 / 1</td>
</tr>
<tr>
<td>· * Data compared to the previous version altered.</td>
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