1 Identification

1.1 Product identifier
- Trade name: Wieland A04

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
- 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):
  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 aluminium or aluminium-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.
- Information:
  The classifications mentioned below reflect the respective pure substance and are for information
  only.
  Aluminium 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 aluminium alloy.

(Contd. on page 2)
Trade name: Wieland A04

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:
    The semi-finished product is not combustible in the form in which it is supplied.
    A fire caused by aluminium powder and swarf must only be tackled with dry sand or Class D fire extinguishing agents approved for this purpose.
- 5.2 Special hazards arising from the substance or mixture
  No further relevant information available.
- 5.3 Advice for firefighters
  - Protective equipment:
    If necessary, protective clothing and respiratory protection masks should be worn.
    The local fire brigade can advise you on risks and fire fighting.

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Not required.
- 6.2 Environmental precautions: Not required
Trade name: Wieland A04

- **6.3 Methods and material for containment and cleaning up:**
  Dispose contaminated material as waste according to item 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.
  Open and handle receptacle with care.
  Information about protection against explosions and fires: 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:
    Keep receptacle tightly sealed.
    Store in cool, dry conditions in well sealed receptacles.

- **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>
</table>
| 7429-90-5 aluminium | Long-term value: 15*; 5** mg/m³  
*Total dust; ** Respirable fraction | Long-term value: 10* 5** mg/m³  
as Al *Total dust**Respirable/pyro powd./welding f. | Long-term value: 1* mg/m³  
as Al; *as respirable fraction |
| 7440-50-8 copper | Long-term value: 1* 0.1** mg/m³  
as Cu *dusts and mists **fume | Long-term value: 1* 0.1** mg/m³  
as Cu *dusts and mists **fume | Long-term value: 1* 0.2** mg/m³  
stuffs and mists; **fume; as Cu |
| 7439-92-1 lead | Long-term value: 0.05* mg/m³  
*see 29 CFR 1910.1025 | Long-term value: 0.05* mg/m³  
*8-hr TWA ;See PocketGuide App.C | Long-term value: 0.05* mg/m³  
*and inorganic compounds, as Pb; BEI |

(Contd. on page 4)
7439-96-5 manganese

<table>
<thead>
<tr>
<th>PEL</th>
<th>Ceiling limit value: 5 mg/m³ as Mn</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL</td>
<td>Short-term value: 3 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 1 mg/m³</td>
</tr>
<tr>
<td>fume, as Mn</td>
<td></td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 0.02* 0.1* mg/m³ as Mn; *respirable **inhaleable fraction</td>
</tr>
</tbody>
</table>

- Ingredients with biological limit values:

7439-92-1 lead

<table>
<thead>
<tr>
<th>BEI</th>
<th>30 µg/100 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium:</td>
<td>blood</td>
</tr>
<tr>
<td>Time:</td>
<td>not critical</td>
</tr>
<tr>
<td>Parameter:</td>
<td>Lead</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10 µg/100 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium:</td>
</tr>
<tr>
<td>Time:</td>
</tr>
<tr>
<td>Parameter:</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.
    - Immediately remove all soiled and contaminated clothing.
    - 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.
  - Protection of hands:
    - Protective gloves

  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

9.1 Information on basic physical and chemical properties

- General Information
  - Appearance:
    - Form: Solid
    - Color: grey to silvery grey
    - Odor: Odorless
    - Odor threshold: Not determined.

- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
Safety Data Sheet

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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)
    7439-92-1 lead 2B
  - NTP (National Toxicology Program)
    7439-92-1 lead R
  - 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.
- Additional ecological information
- General notes:
  Semi-finished articles from aluminium and aluminium-alloy are not soluble in water.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable to metals.
Trade name: Wieland A04

- 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):
    - 7429-90-5 aluminium
    - 7440-50-8 copper
    - 7439-92-1 lead
    - 7439-96-5 manganese
  - TSCA (Toxic Substances Control Act):
    - All ingredients are listed.
  - Proposition 65
  - Chemicals known to cause cancer:
    - 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
### Trade name: Wieland A04

<table>
<thead>
<tr>
<th>Chemicals known to cause developmental toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-92-1 lead</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cancerogenity categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>- EPA (Environmental Protection Agency)</td>
</tr>
<tr>
<td>7440-50-8 copper</td>
</tr>
<tr>
<td>7439-92-1 lead</td>
</tr>
<tr>
<td>7439-96-5 manganese</td>
</tr>
<tr>
<td>- TLV (Threshold Limit Value established by ACGIH)</td>
</tr>
<tr>
<td>7429-90-5 aluminium</td>
</tr>
<tr>
<td>7439-92-1 lead</td>
</tr>
<tr>
<td>- NIOSH-Ca (National Institute for Occupational Safety and Health)</td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td>- Chemical safety assessment void.</td>
</tr>
</tbody>
</table>

### 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 09/11/2017 / 2
- * Data compared to the previous version altered.