1 Identification

1.1 Product identifier
- Trade name: **Wieland A32**

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):
  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 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 A32

- Components:

<table>
<thead>
<tr>
<th>CAS: 7429-90-5</th>
<th>aluminium</th>
<th>balance%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 231-072-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTECS: BD 0330000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 7440-21-3</th>
<th>silicon</th>
<th>0.7-1.3%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 231-130-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTECS: VW 0400000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 7439-98-5</th>
<th>manganese</th>
<th>0.40-1.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 231-105-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTECS: OO 9275000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 7439-95-4</th>
<th>magnesium</th>
<th>0.6-1.2%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 231-104-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTECS: OM 2100000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4 First-aid measures

- 4.1 Description of first aid measures
  - General information:
    No special measures required.
  - 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
- 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.
See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling:
No special measures required.
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: 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>Component</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>7429-90-5 aluminium</td>
<td>Long-term value: 15** 5* mg/m³</td>
<td>Long-term value: 10* 5** mg/m³ as Al</td>
<td>Long-term value: 1* mg/m³ as Al</td>
</tr>
<tr>
<td></td>
<td>Total dust; ** Respirable fraction</td>
<td>Total dust; ** Respirable/pyro powd./welding f.</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>7440-21-3 silicon</td>
<td>Long-term value: 15* 5** mg/m³</td>
<td>Long-term value: 10* 5** mg/m³</td>
<td>Long-term value: 0.02* 0.1* mg/m³</td>
</tr>
<tr>
<td></td>
<td>Total dust; ** Respirable fraction</td>
<td>Total dust; ** Respirable fraction</td>
<td>as Mn; *Respirable **inhalable fraction</td>
</tr>
<tr>
<td>7439-96-5 manganese</td>
<td>Ceiling limit value: 5 mg/m³ as Mn</td>
<td>Short-term value: 3 mg/m³; Long-term value: 1 mg/m³ fume, as Mn</td>
<td>Long-term value: 0.02* 0.1* mg/m³ as Mn</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.
- 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: >999 °C (>1830 °F)

- Flash point: Not applicable.

- Danger of explosion: Product does not present an explosion hazard.

- Density at 20 °C (68 °F): 2.7 g/cm³ (22.532 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.
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.
  - 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
- **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
    - 7439-96-5 manganese
  - 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)
      - 7439-96-5 manganese D
    - TLV (Threshold Limit Value established by ACGIH)
      - 7429-90-5 aluminium A4
    - 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 09/11/2017 / 2
- * Data compared to the previous version altered.