1 Identification

1.1 Product identifier
- Trade name: Wieland A13

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 enviroment.
- 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.

<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>
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<tr>
<td>RTECS: BD 03300000</td>
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</tbody>
</table>

(Contd. on page 2)
Trade name: Wieland A13

CAS: 7439-95-4
EINECS: 231-104-6
RTECS: OM 2100000

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
- 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.

(Contd. on page 3)
Trade name: Wieland A13

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
  - Components with limit values that require monitoring at the workplace:
    | Component | PEL | REL | TLV |
    |-----------|-----|-----|-----|
    | 7429-90-5 aluminium | Long-term value: 15*; 5** mg/m³ | Long-term value: 10* 5** mg/m³ | Long-term value: 1* mg/m³ |
    |             | *Total dust; ** Respirable fraction | as Al*Total dust**Respirable/pyro powd./welding f. | as Al; *as respirable fraction |
  - 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
    - 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.
  - Flash point: Not applicable.
  - Danger of explosion: Product does not present an explosion hazard.
  - Density at 20 °C (68 °F): 2.66 g/cm³ (22.198 lbs/g al) (Lit.)
  - Solubility in / Miscibility with Water: Not soluble.
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.
  - 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.
- 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]
    - 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)
      None of the ingredients is listed.
### Trade name: Wieland A13

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
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<tbody>
<tr>
<td>· TLV (Threshold Limit Value established by ACGIH)</td>
<td>7429-90-5 aluminium A4</td>
</tr>
<tr>
<td>· NIOSH-Ca (National Institute for Occupational Safety and Health)</td>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td></td>
<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 09/08/2017 / 1
- * Data compared to the previous version altered.