1 Identification

- 1.1 Product identifier
  - Trade name: **Wieland A05**

- 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 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.

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- Components:

| CAS: 7429-90-5 | aluminium | min. 99.50% |
| EINECS: 231-072-3 | | |
| RTECS: BD 0330000 | | |

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.
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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:
    | ID      | Limit Value | Source |
    |---------|-------------|--------|
    | 7429-90-5 aluminium | Long-term value: 15*; 5** mg/m³ | PEL |
    |         | *Total dust; ** Respirable fraction | REL |
    |         | Long-term value: 10* 5** mg/m³ | TLV |
    |         | as Al; * as respirable fraction |      |
    |         | Respirable/pyro powd./welding f. |      |
- 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: Undetermined.
  - 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.
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):**
    - All ingredients are listed.

  - **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.
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44.0 TLV (Threshold Limit Value established by ACGIH)
- 7429-90-5 aluminium A4

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 / 1
- * Data compared to the previous version altered.