

SECTION 1: Identification of the article and of the company:

- **1.1 Product identifier**
 - Trade name: **Wieland U17**
 - **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
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- **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
 - Further information obtainable from:
Department Corporate EHS and Standardization Affairs
stefan.priggemeyer@wieland.com
 - **1.4 Information in case of emergency:**
Factory security offices
Phone: +49 (0) 731-944-2794
 - Remarks for information sheet:
Semi-finished products from copper and copper-alloy are articles according to Regulation (EC) No. 1907/2006 (REACH Regulation).
For articles there is no legal obligation to issue a safety data sheet. However, to be able to provide information typically included in a safety data sheet also for articles, the present information sheet for articles has been worked out.
We expressly point out that the information sheet for articles is a voluntarily issued information sheet which is not subject to the formal requirements of the REACH Regulation.

SECTION 2: Hazards 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.
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- **2.2 Label elements**
 - Labelling according to Regulation (EC) No 1272/2008: Void
 - Hazard pictograms: Void
 - Signal word: Void
 - Hazard-determining components of labelling: Void
 - Hazard statements: Void
 - **2.3 Other hazards**
 - Results of PBT and vPvB assessment
 - PBT: Not applicable to metals
 - vPvB: Not applicable to metals.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- Description: Metal in compact form.
- Material code (DIN CEN/TS 13388:2015-08): -
- Material number (DIN CEN/TS 13388:2015-08): -
- UNS-number: -

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- Information:
The classifications mentioned below reflect the respective pure substance and are for information only.
Copper 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 copper alloy.
- Alloy components:
Mentioned percentages are references values.

CAS: 7429-90-5 EINECS: 231-072-3	aluminium substance with a Community workplace exposure limit	10%
CAS: 7440-02-0 EINECS: 231-111-4	nickel ☠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317	5%
CAS: 7439-96-5 EINECS: 231-105-1	manganese substance with a Community workplace exposure limit	1%
CAS: 7440-50-8 EINECS: 231-159-6	copper	balance%
CAS: 7439-89-6 EINECS: 231-096-4	iron	4%

SECTION 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.

SECTION 5: Firefighting 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.
- 5.3 Advice for firefighters:**
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- 6.2 Environmental precautions:** Not required

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- **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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:** No special measures required.
- Information about fire - and explosion protection: 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 container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

7429-90-5 aluminium

AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig**eintembar; AGS, DFG
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7440-02-0 nickel

AGW (Germany)	Long-term value: 0.006 A mg/m ³ 8(II);AGS, 10, Sh, Y
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7439-96-5 manganese

AGW (Germany)	Long-term value: 0.02A; 0.2E mg/m ³ 8(II);DFG,Y,10, 20
IOELV (EU)	Long-term value: 0.2* 0.05** mg/m ³ as Mn; *inhalable, **respirable fraction

- Additional Occupational Exposure Limit Values for possible hazards during processing:

general dust limit (A - alveolar fraction, E - respirable fraction)

AGW (Germany)	(A) 3 (E)10 mg/m ³
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- Additional information:
The lists valid during the making were used as basis.
For the abbreviations, please refer to TRGS 900.

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.
Do not inhale dust / smoke / mist.
- Respiratory protection: Use a suitable industrial gas mask when work-place-limits are exceeded.

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- 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

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- General Information
- Appearance:

Form:	Solid
Colour:	metallic-yellow
- Odour: Odourless
- Odour threshold: Not determined.
- Change in condition

Melting point/freezing point:	1,025-1,060 °C (Lit.)
Initial boiling point and boiling range:	Undetermined.

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|---|---|
| · Flash point: | Not applicable. |
| · Explosive properties: | Product does not present an explosion hazard. |
| · Density at 20 °C: | 7.58 g/cm ³ (Lit.) |
| · Solubility in / Miscibility with water: | Not soluble. |
| · 9.2 Other information | No further relevant information available. |

SECTION 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.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation 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.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.

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- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 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 copper and copper-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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- Recommendation: Contact manufacturer for recycling information.
- Waste disposal key:
 - 12 01 03: non-ferrous metal filings and turnings
 - 16 01 18: non-ferrous metal

SECTION 14: Transport information

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| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: | Not applicable. |
| · 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. |

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Chemical safety assessment: void.
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Waterhazard class: Generally not hazardous for water

SECTION 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 information sheet: Department Corporate EHS and Standardization Affairs
- Contact:
Dr. Stefan Priggemeyer
Phone (+)49 (0)731/944-2794
- * Data compared to the previous version altered.

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