Information sheet
for articles

Printing date 16.07.2026 Version - No. 8 revised on: 16.07.2026

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

· **1.1 Product identifier**
· **Trade name: Wieland-M05**

· **UFI:** -

· **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

· **1.3 Details of the supplier of the data sheet**
· **Manufacturer/Supplier:**
Wieland-Werke AG
Graf-Arco-Straße 36
89079 Ulm (Germany)
Tel.: +49 731 944 0
Fax: + 49 731 944 2799

· **Further information obtainable from:**
ESG Affairs
stefan.priggemeyer@wieland.com

· **1.4 Telephone number:**
Phone: +49 731 944 2794 (Monday - Friday from 9 a.m. to 4 p.m.)

Remarks for information sheet:
Semi-finished products from copper and copper-alloys 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):**
Semi-finished poducts do not fall within the scope of the CLP-Regulation and therefore they are not classified!

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008:** Void
· **Hazard pictograms:** Void
· **Signal word:** Void
· **Hazard statements:** Void

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable to metals
· **vPvB:** Not applicable to metals.

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SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**
· **Description:** Metal in compact form.
· **Material code (CEN/TS 13388):** CuZn5
· **Material number (CEN/TS 13388):** CW500L
· **UNS-number:** C21000
· **Information:**
The classifications listed below reflect the classification of the relevant alloying constituents and are only for information.
Mentioned percentages are references values.

· **Alloy components:**

CAS: 7440-50-8 EINECS: 231-159-6	copper	94.0-96.0%
CAS: 7440-66-6 EINECS: 231-175-3	zinc	balance%
CAS: 7440-02-0 EINECS: 231-111-4	nickel Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317	max. 0.3%
CAS: 7439-92-1 EINECS: 231-100-4	lead massive [particle diameter ≥ 1 mm] Repr. 1A, H360FD-H362; Aquatic Chronic 1, H410 (M=10)	max. 0.05%

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**
First Aid information refer to any dust which is generated.
The mixture in solid form does not pose any significant health hazard. However, melting or activites which produce metal dust, smoke or fumes can cause that metal dust enter the body in harmful amounts.

· **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.

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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.

· **6.3 Methods and material for containment and cleaning up:**
Collect the material and if necessary dispose it as waste according to section 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**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Further information about storage conditions:** Store in dry conditions.

· **7.3 Specific end use(s):** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**
· **Additional information about design of technical facilities:** No further data; see section 7.
· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 7440-50-8 copper
AGW (Germany) Long-term value: 0.045 (A) 0.200 (E) mg/m³
8 (II) (A) 4 (II) (E);AGS, 10, als Cu

CAS: 7440-66-6 zinc
MAK (Germany) Long-term value: 0.1A* 2E** mg/m³
*alveolengängig; **einatembar

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CAS: 7440-02-0 nickel
AGW (Germany) Long-term value: 0.006A; 0.030E* mg/m³
8(II);AGS, 24, Sh, Y, 10*, 31*

CAS: 7439-92-1 lead
BOELV (EU) Long-term value: 0.15 mg/m³
as Pb

MAK (Germany) Long-term value: 0.004E mg/m³
vgl.Abschn.XII

· **Ingredients with biological limit values: -**

CAS: 7439-92-1 lead
BLV (Germany) 150 µg/l
Test material: Blood
Parameter: Lead

· **Additional Occupational Exposure Limit Values for possible hazards during processing:**
general dust limit (A - respirable fraction, E - inhalable fraction)
AGW (Germany) (A) 3 (E)10 mg/m³

· **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.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale dust / smoke / mist.
· **Respiratory protection:** 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 (material of gloves: neoprene or leather). If the material is hot, wear thermally resistant protective gloves.

· **Eye protection:**

Protective goggles are recommended, depending upon how the semis are further processed (tightly sealed goggles - EN 166).

· **Body protection:**
Wear suitable protective clothing, depending upon how the semis are further processed.

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Colour:	Brass yellow
· **Odour:**	Odourless
· **Odour threshold:**	Not determined
· **Change in condition**	
Melting point/freezing point:	1050-1065 °C (Lit.)
Initial boiling point and boiling range:	Undetermined
· **Flash point:**	Not applicable
· **Decomposition temperature:**	Not determined
· **Density at 20 °C:**	8.86 g/cm³ (Lit.)
· **Solubility in / Miscibility with at 20 °C**	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.

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SECTION 11: Toxicological information

· **Acute toxicity**
Based on the available data, the classification criteria are not met.
No further relevant information available.

· **Primary irritant effect**
· **Skin corrosion/irritation**
Based on the available data, the classification criteria are not met.
No further relevant information available.

· **Serious eye damage/irritation**
Based on the available data, the classification criteria are not met.
No further relevant information available.

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· **Respiratory or skin sensitisation**
Based on the available data, the classification criteria are not met.
No further relevant information available.

· **General information:**
The product in its massive form does not present any significant health hazard. However, activities which produce metal dust, smoke or fumes can cause that metal dust enter the body in harmful amounts.

· **Carcinogenicity**
Based on the available data, the classification criteria are not met.
No further relevant information available.

· **Reproductive toxicity**
Based on the available data, the classification criteria are not met.
No further relevant information available.

· **Aspiration hazard**
Based on the available data, the classification criteria are not met.
No further relevant information available.

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SECTION 12: Ecological information

· **12.1 Aquatic toxicity:**
The product in massive form is not known to present any hazards. Dust: Very toxic to aquatic life with long lasting effects.

· **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.
· **General notes:** Semi-finished articles from copper and copper-alloys 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 Endocrine disrupting properties:**
The product does not contain any substances with endocrine disrupting properties.

· **12.7 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation:** Contact manufacturer for recycling information.

· **European waste catalogue**
12 01 03: non-ferrous metal filings and turnings
16 01 18: non-ferrous metal
for non-contaminated waste

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SECTION 14: Transport information

· **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

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:** ESG Affairs
· **Contact:**
Dr. Stefan Priggemeyer
Email: stefan.priggemeyer@wieland.com
· *** Data compared to the previous version altered.**