

1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

- Trade name: **Wieland M20**
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation: Semi-finished product

· 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 Hazards identification

· 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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- Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.
 - Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of international guidelines.
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· 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

· Other hazards

- Semi-finished products from copper or copper-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

· Chemical characterization: Mixtures

- Description: Metal in compact form.
- UNS-number: C24000
- 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.

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· Components:		
CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	79-81%
CAS: 7440-66-6 EINECS: 231-175-3 RTECS: ZG 8600000	zinc	balance%

4 First aid measures

- **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.
- Information for doctor:
Most important symptoms and effects, both acute and delayed:
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- Suitable extinguishing agents: Non-flammable. Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- Protective equipment: No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** Not required
- **Methods and material for containment and cleaning up:**
Dispose of the collected material according to regulations.
- **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

- **Handling:**
- Precautions for safe handling: No special measures required.
- Information about protection against explosions and fires: No special measures required.

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- **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.
- **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.

Control parameters

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

7440-50-8 copper

PEL	1* 0.1** mg/m ³ as Cu *dusts and mists **fume
REL	1* 0.1** mg/m ³ as Cu *dusts and mists **fume
TLV	1* 0.2** mg/m ³ *dusts and mists; **fume; as Cu

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

1314-13-2 zinc oxide

PEL	15* 5** 5*** mg/m ³ *total dust **respirable dust ***fume
REL	Short-term value: C 15* 10** mg/m ³ Long-term value: 5* 5** mg/m ³ *dust only **fume
TLV	Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *as respirable fraction

- Additional information: The lists that were valid during the creation were used as basis.

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

Information on basic physical and chemical properties

- General Information
- Appearance:

Form:	Solid
Color:	copper yellow
Odor:	Odorless
Odour threshold:	Not determined.

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| · Change in condition
Melting point/Melting range: 970-1010°C (1778-1850 °F) (Lit.)
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): | 8.67 g/cm ³ (72.351 lbs/gal) (Lit.) |
| · Solubility in / Miscibility with
Water: | Not soluble. |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity:** Not applicable.
- Chemical stability: Not applicable.
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- 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.

12 Ecological information

- **Toxicity**
- Aquatic toxicity: No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- **Additional ecological information**
- General notes:
For semi-finished products in copper or copper-alloys no information regarding ecology is suitable, as it is not soluble in water.
- **Results of PBT and vPvB assessment**
- PBT: Not applicable to metals.
- vPvB: Not applicable to metals.
- **Other adverse effects:** No further relevant information available.

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13 Disposal considerations

- **Waste treatment methods**
- Recommendation: Contact manufacturer for recycling information.

14 Transport information

· UN-Number	· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	· ADR, ADN	Void
· Transport hazard class(es)	· DOT, ADR, ADN, IMDG, IATA	Void
· Class		Void
· Packing group	· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	· Marine pollutant:	No
· Special precautions for user:		Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:		Not applicable.

15 Regulatory information

- **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)	
7440-50-8	copper

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7440-66-6	zinc	II
· IARC (International Agency for Research on Cancer)		
None of the ingredients is listed.		
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value established by ACGIH)		
None of the ingredients is listed.		
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· OSHA-Ca (Occupational Safety & Health Administration)		
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 MSDS:** Department testing laboratories

· **Contact:**

Dr. Michael Ebner

Phone (+)49 (0)731/944-3706

· * Data compared to the previous version altered.

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