

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

### · Product identifier

- Trade name: **Wieland M15**
- 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.
  - Classification system: Not applicable
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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: C23000
- 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	84.0-86.0%
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CAS: 7440-66-6 EINECS: 231-175-3 RTECS: ZG 8600000	zinc	balance%
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#### 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 <sup>3</sup> as Cu *dusts and mists **fume
REL	1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV	1* 0.2** mg/m <sup>3</sup> *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 <sup>3</sup> *total dust **respirable dust ***fume
REL	Short-term value: C 15* 10** mg/m <sup>3</sup> Long-term value: 5* 5** mg/m <sup>3</sup> *dust only **fume
TLV	Short-term value: 10* mg/m <sup>3</sup> Long-term value: 2* mg/m <sup>3</sup> *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: 1005-1025°C (1841-1877 °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): 8.74 g/cm<sup>3</sup> (72.935 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**

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

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
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· 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.