

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

### · Product identifier

- Trade name: **Wieland K23**
- 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

### · 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

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- Labelling according to EU guidelines:  
Observe the general safety regulations when handling chemicals.

### · 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

- Description: Metal in compact form.
- UNS-number: C12200
- 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).

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The classification of a pure substance is not applicable to its use as element of a copper alloy.

## · Components:

CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	min.99.90%
· CAS: 7723-14-0 EINECS: 231-768-7 RTECS: TH 3495000	phosphorus	0.015-0.040%

#### 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.

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## 7 Handling and storage

- **Handling:**
  - Precautions for safe handling: No special measures required.
  - Information about protection against explosions and fires: No special measures required.
- **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 R** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV	Short-term value: 0.1** mg/m <sup>3</sup> Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu

- 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 red
- Odor: Odorless
- Odour threshold: Not determined.

- Change in condition
  - Melting point/Melting range: 1083°C (1981°F) (Lit.)
  - Boiling point/Boiling range: Undetermined.

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|---|---|
| · Flash point:                            | Not applicable.                                 |
| · Danger of explosion:                    | Product does not present an explosion hazard.   |
| · Density at 20°C (68°F):                 | 8.94 g/cm <sup>3</sup> (74.604 lbs/gal ) (Lit.) |
| · Solubility in / Miscibility with Water: | Not soluble.                                    |
| · <b>Other information</b>                | 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

- DOT regulations:
- Hazard class: -
- **Land transport ADR/RID (cross-border):**
- ADR/RID class: -
- **Maritime transport IMDG:**
- IMDG Class: -
- Marine pollutant: No
- **Air transport ICAO-TI and IATA-DGR:**
- ICAO/IATA Class: -
- **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**
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- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):

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- TSCA (Toxic Substances Control Act):

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- 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)

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- IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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· NTP (National Toxicology Program)
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None of the ingredients is listed.
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· TLV (Threshold Limit Value established by ACGIH)
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None of the ingredients is listed.
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· NIOSH-Ca (National Institute for Occupational Safety and Health)
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None of the ingredients is listed.
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· OSHA-Ca (Occupational Safety & Health Administration)
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None of the ingredients is listed.
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· Chemical safety assessment void.
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**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

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