

## 1 Identification

- **1.1 Product identifier**
  - Trade name: **Wieland Z23**
  - **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
  - Application of the substance / the preparation: 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
  - Information department:  
Department Corporate EHS and Standardization Affairs  
[stefan.priggemeyer@wieland.com](mailto:stefan.priggemeyer@wieland.com)
  - **1.4 Emergency telephone number:**  
Factory security offices  
Phone: +49 (0) 731-944-2794

## 2 Hazard(s) 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 labeling: Void
  - Hazard statements: Void
  - **2.3 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

- **3.2 Chemical characterization: Mixtures**
- Description: Metal in compact form.
- UNS-number: C36000
- 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	60.0-62.0%
CAS: 7440-66-6 EINECS: 231-175-3 RTECS: ZG 8600000	zinc	balance%
CAS: 7439-92-1 EINECS: 231-100-4 RTECS: OF 7525000	lead  Acute Tox. 3, H301;  Carc. 2, H351; Repr. 1A, H360-H362;  Acute Tox. 4, H332	2.5-3.5%

#### 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.

#### 5 Fire-fighting 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.

#### 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:**

Dispose of the collected material according to regulations.

· **6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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## 7 Handling and storage

- **7.1 Precautions for safe handling:** No special measures required.
- Information about protection against explosions and fires: 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: None.
- **7.3 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.
- **8.1 Control parameters**
- Components with limit values that require monitoring at the workplace:  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

### 7440-50-8 copper

PEL	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV	Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu

### 7439-92-1 lead

PEL	Long-term value: 0.05* mg/m <sup>3</sup> *see 29 CFR 1910.1025
REL	Long-term value: 0.05* mg/m <sup>3</sup> *8-hr TWA ;See PocketGuide App.C
TLV	Long-term value: 0.05* mg/m <sup>3</sup> *and inorganic compounds, as Pb; BEI

- Ingredients with biological limit values:

### 7439-92-1 lead

BEI	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
	10 µg/100 ml Medium: blood Time: not critical Parameter: Lead (women of child bearing potential)

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

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- **8.2 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

- **9.1 Information on basic physical and chemical properties**

- General Information
- Appearance:
 

Form:	Solid
Color:	copper yellow
- Odor: Odorless
- Odor threshold: Not determined.
- Change in condition
 

Melting point/Melting range:	885-900 °C (1625-1652 °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): 8.53 g/cm<sup>3</sup> (71.18285 lbs/gal) (Lit.)
- Solubility in / Miscibility with
 

Water:	Not soluble.
VOC content:	0.00 %
- **9.2 Other information** No further relevant information available.

## 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.

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- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products known.

## 11 Toxicological information

- **11.1 Information on toxicological effects**
- Acute toxicity: Based on available data, the classification criteria are not met.
- Primary irritant effect:
  - on the skin: Based on available data, the classification criteria are not met.
  - on the eye: Based on available data, the classification criteria are not met.
- Sensitization: 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.

- Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
7439-92-1	lead	2B
· NTP (National Toxicology Program)		
7439-92-1	lead	R
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

## 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:  
For semi-finished products in copper or copper-alloys no information regarding ecology is suitable, as it is 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.

## 13 Disposal considerations

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

## 14 Transport information

- **14.1 UN-Number**
- DOT, ADR, ADN, IMDG, IATA                      Void

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|--|---------------------------|-----------------|
| <ul style="list-style-type: none"> <li>• <b>14.2 UN proper shipping name</b></li> </ul>  | DOT, ADR, ADN, IMDG, IATA | Void            |
| <ul style="list-style-type: none"> <li>• <b>14.3 Transport hazard class(es)</b></li> </ul>   | DOT, ADR, ADN, IMDG, IATA | Void            |
| <ul style="list-style-type: none"> <li>• Class</li> </ul>  |                           | Void            |
| <ul style="list-style-type: none"> <li>• <b>14.4 Packing group</b></li> </ul>  | DOT, ADR, IMDG, IATA      | Void            |
| <ul style="list-style-type: none"> <li>• <b>14.5 Environmental hazards:</b></li> </ul>   | Marine pollutant:         | No              |
| <ul style="list-style-type: none"> <li>• <b>14.6 Special precautions for user:</b></li> </ul>  |                           | Not applicable. |
| <ul style="list-style-type: none"> <li>• <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b></li> </ul> |                           | Not applicable. |

## 15 Regulatory information

- **15.1 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:

7439-92-1 | lead

- Chemicals known to cause reproductive toxicity for females:

7439-92-1 | lead

- Chemicals known to cause reproductive toxicity for males:

7439-92-1 | lead

- Chemicals known to cause developmental toxicity:

7439-92-1 | lead

- Cancerogenity categories

- EPA (Environmental Protection Agency)

7440-50-8	copper	D
7440-66-6	zinc	D, I, II
7439-92-1	lead	B2

- TLV (Threshold Limit Value established by ACGIH)

7439-92-1	lead	A3
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- NIOSH-Ca (National Institute for Occupational Safety and Health)

- 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 SDS: Department Corporate EHS and Standardization Affairs
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- \* Data compared to the previous version altered.

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