

## 1 Identification

### · Product identifier

- Trade name: **Wieland Z24**
- 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

### · 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 Hazard(s) 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.

### · 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

### · 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: -
- 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.
- Components:  
Mentioned percentages are references values.

CAS: 7440-50-8	copper	58%
EINECS: 231-159-6		
RTECS: GL 5325000		

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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	0.5%

#### 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 Fire-fighting 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	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

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

### 1314-13-2 zinc oxide

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction and 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

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- |                                    |   |
|------------------------------------|---|
| · Odour threshold:                 | Not determined.                                 |
| · Change in condition              |   |
| Melting point/Melting range:       | 890-910 °C (1634-1670 ° 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):        | 8.41 g/cm <sup>3</sup> (70.181 lbs/g al) (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.
- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

7439-92-1 | lead

2B

- NTP (National Toxicology Program)

7439-92-1 | lead

R

## 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.

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- **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.

### 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>  |                 |
| · DOT, ADR, ADN, IMDG, IATA   | Void            |
| · <b>Transport hazard class(es)</b>   |                 |
| · DOT, ADR, ADN, IMDG, IATA   |                 |
| · 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**

- 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

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- Chemicals known to cause reproductive toxicity for males:

7439-92-1	lead
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- Chemicals known to cause developmental toxicity:

7439-92-1	lead
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- Carcinogenicity categories

- EPA (Environmental Protection Agency)

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

- 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.