

## 1 Identification

### 1.1 Product identifier

Trade name: **Wieland ZC4**

### 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

### 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 testing laboratories

michael.ebner@wieland.de

### 1.4 Emergency telephone number:

Factory security offices

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

## 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.

### 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: -

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 reference values.

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CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	61%
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	1.2%

#### 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 contaminated material as waste according to item 13.

- **6.4 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

- **7.1 Precautions for safe handling:**

No special measures required.

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- Open and handle receptacle with care.
- 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 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: 10** mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> Ceiling limit value: 15* 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

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- Additional information: The lists that were valid during the creation were used as basis.
- **8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Store protective clothing separately.
  - 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:	871-893 °C (1600-1639 ° 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): 8.43 g/cm<sup>3</sup> (70.348 lbs/g al)
- Solubility in / Miscibility with
 

Water:	Not soluble.
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- **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.
- **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.

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- 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.
- Ecotoxicological effects:
  - Remark: Very toxic for fish
- 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.  
Very toxic for aquatic organisms
- **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

- **14.2 UN proper shipping name**

· DOT, ADR, ADN, IMDG, IATA

Void

- **14.3 Transport hazard class(es)**

· DOT, ADR, ADN, IMDG, IATA

· Class

Void

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|--|-----------------|
| · <b>14.4 Packing group</b>  |                 |
| · DOT, ADR, IMDG, IATA   | Void            |
| · <b>14.5 Environmental hazards:</b>   |                 |
| · Marine pollutant:  | No              |
| · <b>14.6 Special precautions for user:</b>  | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | 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

- 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 testing laboratories

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- Contact:  
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- Date of preparation / last revision 08/25/2017 / 5
- \* Data compared to the previous version altered.

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