

## 1 Identification

### 1.1 Product identifier

Trade name: **Wieland GB2**

### 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.

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| · Components:  |  |            |
|--|--|------------|
| CAS: 7440-50-8<br>EINECS: 231-159-6<br>RTECS: GL 5325000 | copper   | 83.0-87.0% |
| CAS: 7440-31-5<br>EINECS: 231-141-8<br>RTECS: XP 7320000 | tin  | 4.0-6.0%   |
| CAS: 7439-92-1<br>EINECS: 231-100-4<br>RTECS: OF 7525000 | lead   | 4.0-6.0%   |
| CAS: 7440-02-0<br>EINECS: 231-111-4                      | nickel<br>☠ Carc. 2, H351; STOT RE 1, H372; ☠ Skin Sens. 1, H317 | 0-2.0%     |
| CAS: 7440-66-6<br>EINECS: 231-175-3<br>RTECS: ZG 8600000 | zinc   | 4.0-6.0%   |

#### 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.

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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.
  - 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:

#### 7440-50-8 copper

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

#### 7440-31-5 tin

|     |   |
|-----|---|
| PEL | Long-term value: 2 mg/m <sup>3</sup><br>metal |
| REL | Long-term value: 2 mg/m <sup>3</sup>          |
| TLV | Long-term value: 2 mg/m <sup>3</sup><br>metal |

#### 7439-92-1 lead

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

#### 7440-02-0 nickel

|     |  |
|-----|--|
| PEL | Long-term value: 1 mg/m <sup>3</sup>                                       |
| REL | Long-term value: 0.015 mg/m <sup>3</sup><br>as Ni; See Pocket Guide App. A |
| TLV | Long-term value: 1.5* mg/m <sup>3</sup><br>elemental, *inhalable fraction  |

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· Ingredients with biological limit values:

**7439-92-1 lead**

|     |  |
|-----|--|
| BEI | 30 µg/100 ml<br>Medium: blood<br>Time: not critical<br>Parameter: Lead |
|-----|--|

|  |   |
|--|---|
|  | 10 µg/100 ml<br>Medium: blood<br>Time: not critical<br>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><br>*total dust **respirable fraction and fume |
|-----|--|

|     |   |
|-----|---|
| REL | Short-term value: 10** mg/m <sup>3</sup><br>Long-term value: 5 mg/m <sup>3</sup><br>Ceiling limit value: 15* mg/m <sup>3</sup><br>*dust only **fume |
|-----|---|

|     |   |
|-----|---|
| TLV | Short-term value: 10* mg/m <sup>3</sup><br>Long-term value: 2* mg/m <sup>3</sup><br>*as respirable fraction |
|-----|---|

· 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 red      |
| Odor:           | Odorless        |
| Odor threshold: | Not determined. |

· Change in condition

|                              |                                   |
|------------------------------|-----------------------------------|
| Melting point/Melting range: | 860-1030 °C (1580-1886 °F) (Lit.) |
| Boiling point/Boiling range: | Undetermined.                     |

· Flash point: Not applicable.

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- |   |   |
|---|---|
| · Danger of explosion:                    | Product does not present an explosion hazard. |
| · Density at 20 °C (68 °F):               | 8.7 g/cm <sup>3</sup> (72.602 lbs/gal) (Lit.) |
| · Solubility in / Miscibility with Water: | Not soluble.                                  |
| · <b>9.2 Other information</b>            | 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.
- 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 |
| 7440-02-0 | nickel | 2B |

- NTP (National Toxicology Program)

|           |        |   |
|-----------|--------|---|
| 7439-92-1 | lead   | R |
| 7440-02-0 | nickel | 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: Toxic for fish

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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.  
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

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>  |                 |
| · DOT, ADR, ADN, IMDG, IATA  | Void            |
| · <b>14.2 UN proper shipping name</b>  |                 |
| · DOT, ADR, ADN, IMDG, IATA  | Void            |
| · <b>14.3 Transport hazard class(es)</b>   |                 |
| · DOT, ADR, ADN, IMDG, IATA  |                 |
| · Class  | Void            |
| · <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): |
|---|

|           |        |
|-----------|--------|
| 7440-50-8 | copper |
|-----------|--------|

|           |      |
|-----------|------|
| 7440-66-6 | zinc |
|-----------|------|

|           |      |
|-----------|------|
| 7439-92-1 | lead |
|-----------|------|

|           |        |
|-----------|--------|
| 7440-02-0 | nickel |
|-----------|--------|

|  |
|--|
| · TSCA (Toxic Substances Control Act): |
|--|

|                             |
|-----------------------------|
| All ingredients are listed. |
|-----------------------------|

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- Proposition 65

- Chemicals known to cause cancer:

|           |      |
|-----------|------|
| 7439-92-1 | lead |
|-----------|------|

|           |        |
|-----------|--------|
| 7440-02-0 | nickel |
|-----------|--------|

- 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 |
|-----------|------|

- Carcinogenicity 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 |
|-----------|------|----|

|           |        |    |
|-----------|--------|----|
| 7440-02-0 | nickel | A5 |
|-----------|--------|----|

- NIOSH-Ca (National Institute for Occupational Safety and Health)

|           |        |
|-----------|--------|
| 7440-02-0 | nickel |
|-----------|--------|

- 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

- Contact:

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- Date of preparation / last revision 08/23/2017 / 7

- \* Data compared to the previous version altered.