

## 1 Identification

### 1.1 Product identifier

Trade name: **Wieland SD4**

### 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	57%
CAS: 7429-90-5 EINECS: 231-072-3 RTECS: BD 0330000	aluminium	2%
CAS: 7439-96-5 EINECS: 231-105-1 RTECS: OO 9275000	manganese	2%
CAS: 7440-21-3 EINECS: 231-130-8 RTECS: VW 0400000	silicon	1%
CAS: 7440-66-6 EINECS: 231-175-3 RTECS: ZG 8600000	zinc	balance%

#### 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:

#### 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

#### 7429-90-5 aluminium

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction

#### 7439-96-5 manganese

PEL	Ceiling limit value: 5 mg/m <sup>3</sup> as Mn
REL	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> fume, as Mn
TLV	Long-term value: 0.02* 0.1* mg/m <sup>3</sup> as Mn; *respirable **inhalable fraction

#### 7440-21-3 silicon

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	TLV withdrawn

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- 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

- 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:  
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:	metallic-yellow
Odor:	Odorless
Odor threshold:	Not determined.

- Change in condition
 

Melting point/Melting range:	830-890 °C (1526-1634 °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): 8.1 g/cm<sup>3</sup> (67.595 lbs/gal) (Lit.)
- Solubility in / Miscibility with Water: Not soluble.
- **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.

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- **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)
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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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· OSHA-Ca (Occupational Safety & Health Administration)
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None of the ingredients is listed.
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## 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.

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### 14 Transport information

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|--|------------------------------------|-----------------|
| <ul style="list-style-type: none"> <li>• <b>14.1 UN-Number</b></li> </ul>  | DOT, ADR, ADN, IMDG, IATA          | Void            |
| <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<br>Class | 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):

7440-50-8 copper

7440-66-6 zinc

7429-90-5 aluminium

7439-96-5 manganese

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- 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)

7440-50-8 copper

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7440-66-6 zinc

D, I, II

7439-96-5 manganese

D

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· TLV (Threshold Limit Value established by ACGIH)

7429-90-5	aluminium	A4
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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 testing laboratories
- Contact:  
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Phone (+)49 (0)731/944-3706
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- \* Data compared to the previous version altered.

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