

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- Trade name: **Wieland S40**
- Relevant identified uses of the substance or mixture and uses advised against
- 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 Hazards 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.
- 
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.
- Information concerning particular hazards for human and environment:  
The product does not have to be labelled due to the calculation procedure of international guidelines.
- Classification system: Not applicable
- 
- **Label elements**
- Labelling according to Regulation (EC) No 1272/2008: Void
- Hazard pictograms: Void
- Signal word: Void
- Hazard-determining components of labelling: 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: C67420
- Information:

(Contd. on page 2)

USA

Printing date 08/09/2011

Version - No. 3

Reviewed on 08/09/2011

Trade name: **Wieland S40**

(Contd. of page 1)

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:

CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	57.0-59.0%
CAS: 7439-96-5 EINECS: 231-105-1 RTECS: OO 9275000	manganese	1.5-3.0%
CAS: 7429-90-5 EINECS: 231-072-3 RTECS: BD 0330000	aluminium	1.3-2.3%
CAS: 7440-21-3 EINECS: 231-130-8 RTECS: VW 0400000	silicon	0.3-1.3%
CAS: 7440-02-0 EINECS: 231-111-4 RTECS: QR 5950000	nickel ☠ Carc. 2, H351; STOT RE 1, H372; ☠ Skin Sens. 1, H317	0-1.0%
CAS: 7439-92-1 EINECS: 231-100-4 RTECS: OF 7525000	lead	0.2-0.8%
· CAS: 7440-66-6 EINECS: 231-175-3 RTECS: ZG 8600000	zinc	balance%

#### 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 Firefighting measures

· **Extinguishing media**

## · Suitable extinguishing agents:

Non-flammable. Use fire fighting measures that suit the environment.

(Contd. on page 3)

USA

Printing date 08/09/2011

Version - No. 3

Reviewed on 08/09/2011

Trade name: **Wieland S40**

(Contd. of page 2)

- **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.
- **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	1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL	1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV	1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu

### 7439-96-5 manganese

PEL	Short-term value: C 5* ** mg/m <sup>3</sup> as Mn *and inorganic compounds **fume
REL	Short-term value: 3* ** mg/m <sup>3</sup> Long-term value: 1* ** mg/m <sup>3</sup> as Mn *and inorganic compounds **fume
TLV	(0.2) NIC-0.02* NIC-0.2* mg/m <sup>3</sup> as Mn;+ inorg. comp.;*resp.,**inh. fraction:NIC-A4

(Contd. on page 4)

USA

Trade name: **Wieland S40**

(Contd. of page 3)

**7429-90-5 aluminium**

PEL	15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	10* 5** mg/m <sup>3</sup> Metal *total dust **respirable fraction
TLV	1* mg/m <sup>3</sup> *as respirable fraction

**7440-21-3 silicon**

PEL	15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	TLV withdrawn

**7440-02-0 nickel**

PEL	1 mg/m <sup>3</sup>
REL	0.015 mg/m <sup>3</sup> as Ni; See Pocket Guide App. A
TLV	1.5* 0.2** 0.1*** mg/m <sup>3</sup> inhal.fraction;*elemental;**insol.,***sol.compds.

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

**1314-13-2 zinc oxide**

PEL	15* 5** 5*** mg/m <sup>3</sup> *total dust **respirable dust ***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:	metallic-yellow
- Odor: Odorless

(Contd. on page 5)

Printing date 08/09/2011

Version - No. 3

Reviewed on 08/09/2011

Trade name: **Wieland S40**

(Contd. of page 4)

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|------------------------------------|---|
| · Odour threshold:                 | Not determined.                                 |
| · Change in condition              |   |
| Melting point/Melting range:       | 875-910°C (1607-1670 °F ) (Lit.)                |
| Boiling point/Boiling range:       | Undetermined.                                   |
| · Flash point:                     | Not applicable.                                 |
| · Decomposition temperature:       | Not determined.                                 |
| · Danger of explosion:             | Product does not present an explosion hazard.   |
| · Density at 20°C (68 °F):         | 8.12 g/cm <sup>3</sup> (67.761 lbs/ga l) (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: Sensitization possible through skin contact.
- 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.

## 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.
- **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.

(Contd. on page 6)

USA

Printing date 08/09/2011

Version - No. 3

Reviewed on 08/09/2011

Trade name: **Wieland S40**

(Contd. of page 5)

- **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>  |                 |
| · ADR, ADN  | Void            |
| · <b>UN proper shipping name</b>  |                 |
| · ADR, ADN  | Void            |
| · <b>Transport hazard class(es)</b>   |                 |
| · ADR, ADN  |                 |
| · Class   | Void            |
| · <b>Packing group</b>  |                 |
| · ADR   | 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):

7440-50-8 copper

7440-66-6 zinc

7439-96-5 manganese

7429-90-5 aluminium

7440-02-0 nickel

7439-92-1 lead

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65

- Chemicals known to cause cancer:

7440-02-0 nickel

7439-92-1 lead

(Contd. on page 7)

Printing date 08/09/2011

Version - No. 3

Reviewed on 08/09/2011

Trade name: **Wieland S40**

(Contd. of page 6)

- 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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- Carcinogenity categories

- EPA (Environmental Protection Agency)

7440-50-8	copper	D
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7440-66-6	zinc	II
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7439-96-5	manganese	D
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7439-92-1	lead	B2
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- IARC (International Agency for Research on Cancer)

7440-02-0	nickel	2B
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7439-92-1	lead	2B
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- NTP (National Toxicology Program)

7440-02-0	nickel	R
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7439-92-1	lead	R
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- TLV (Threshold Limit Value established by ACGIH)

7429-90-5	aluminium	A4
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7440-02-0	nickel	A5
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7439-92-1	lead	A3
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- NIOSH-Ca (National Institute for Occupational Safety and Health)

7440-02-0	nickel
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- 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.