

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

- **Product identifier**
- Trade name: **Wieland SX1**
- 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
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- **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: -
- Information:

(Contd. on page 2)

USA

Printing date 08/10/2011

Version - No. 3

Reviewed on 08/10/2011

Trade name: **Wieland SX1**

(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:

Mentioned percentages are references values.

CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	64%
CAS: 7439-96-5 EINECS: 231-105-1 RTECS: OO 9275000	manganese	2%
CAS: 7429-90-5 EINECS: 231-072-3 RTECS: BD 0330000	aluminium	1%
CAS: 7440-21-3 EINECS: 231-130-8 RTECS: VW 0400000	silicon	1%
CAS: 7440-02-0 EINECS: 231-111-4 RTECS: QR 5950000	nickel ☠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317	1%
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.

- Special hazards arising from the substance or mixture**

No further relevant information available.

(Contd. on page 3)

USA

Printing date 08/10/2011

Version - No. 3

Reviewed on 08/10/2011

Trade name: **Wieland SX1**

(Contd. of page 2)

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

7439-96-5 manganese

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

7429-90-5 aluminium

(Contd. on page 4)

USA

Trade name: **Wieland SX1**

(Contd. of page 3)

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

7440-21-3 silicon

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TLV	TLV withdrawn

7440-02-0 nickel

PEL	1 mg/m ³
REL	0.015 mg/m ³ as Ni; See Pocket Guide App. A
TLV	1.5* 0.2** 0.1*** mg/m ³ 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 ³ *total dust **respirable dust ***fume
REL	Short-term value: C 15* 10** mg/m ³ Long-term value: 5* 5** mg/m ³ *dust only **fume
TLV	Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *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
- Odour threshold: Not determined.

(Contd. on page 5)

USA

Printing date 08/10/2011

Version - No. 3

Reviewed on 08/10/2011

Trade name: **Wieland SX1**

(Contd. of page 4)

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|--|--|
| · Change in condition
Melting point/Melting range: 845-885°C (1553-1625 °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): | 8.31 g/cm ³ (69.347 lbs/gal) (Lit.) |
| · Solubility in / Miscibility with
Water: Not soluble. | |
| · Other information | 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 08/10/2011

Version - No. 3

Reviewed on 08/10/2011

Trade name: **Wieland SX1**

(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

- | | |
|---|-----------------|
| · UN-Number | Void |
| · ADR, ADN | Void |
| · UN proper shipping name | Void |
| · ADR, ADN | Void |
| · Transport hazard class(es) | Void |
| · ADR, ADN | Void |
| · Class | Void |
| · Packing group | Void |
| · ADR | Void |
| · Environmental hazards: | No |
| · Marine pollutant: | No |
| · Special precautions for user: | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | 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

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65

- Chemicals known to cause cancer:

7440-02-0 nickel

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

(Contd. on page 7)

USA

Printing date 08/10/2011

Version - No. 3

Reviewed on 08/10/2011

Trade name: **Wieland SX1**

(Contd. of page 6)

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:
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None of the ingredients is listed.

· Cancerogenity 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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· IARC (International Agency for Research on Cancer)
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7440-02-0	nickel	2B
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· NTP (National Toxicology Program)

7440-02-0	nickel	R
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· TLV (Threshold Limit Value established by ACGIH)
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7429-90-5	aluminium	A4
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7440-02-0	nickel	A5
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· NIOSH-Ca (National Institute for Occupational Safety and Health)
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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.