

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

- **Product identifier**
- Trade name: **Wieland S31**
- 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: -
- Information:

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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	66.0-70.0%
CAS: 7440-21-3 EINECS: 231-130-8 RTECS: VW 0400000	silicon	0.7-1.3%
CAS: 7439-92-1 EINECS: 231-100-4 RTECS: OF 7525000	lead	0-0.8%
· 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.

· 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

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- **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

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

- 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.

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- 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.
- Change in condition

Melting point/Melting range:	880-915°C (1616-1679 °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): 8.41 g/cm³ (70.181 lbs/ga l) (Lit.)
- Solubility in / Miscibility with

Water:	Not soluble.
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- **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: No sensitizing effects known.

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- 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.
- **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
· DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name
· ADR, ADN | Void |
| · Transport hazard class(es)
· DOT, ADR, ADN, IMDG, IATA
· Class | Void |
| · Packing group
· DOT, ADR, IMDG, IATA | Void |
| · Environmental hazards:
· 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. |

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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

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- 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

- 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

II

7439-92-1 lead

B2

- IARC (International Agency for Research on Cancer)

7439-92-1 lead

2B

- NTP (National Toxicology Program)

7439-92-1 lead

R

- 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.

- 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

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- **Contact:**
Dr. Michael Ebner
Phone (+)49 (0)731/944-3706
- * Data compared to the previous version altered.

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