

1 Identification of the article and of the company:

- **Product identifier**
- Trade name: **Wieland S28**
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the article: 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
- Further information obtainable from:
Department testing laboratories
michael.ebner@wieland.de
- Information in case of emergency:
Factory security offices
Phone: +49 (0) 731-944-3706
- Remarks for information sheet:
Semi-finished products from copper and copper-alloy are articles according to Regulation (EC) No. 1907/2006 (REACH Regulation).
For articles there is no legal obligation to issue a safety data sheet. However, to be able to provide information typically included in a safety data sheet also for articles, the present information sheet for articles has been worked out.
We expressly point out that the information sheet for articles is a voluntarily issued information sheet which is not subject to the formal requirements of the REACH Regulation.

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.
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- Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.
- Information concerning particular hazards for human and environment: Not applicable.
- 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**
- Results of PBT and vPvB assessment
- PBT: Not applicable to metals
- vPvB: Not applicable to metals.

3 Composition/information on ingredients

- Description: Metal in compact form.
- Material code (DIN CEN/TS 13388:2008-08): CuZn28Sn1As
- Material number (DIN CEN/TS 13388:2008-08): CW706R
- UNS-number: C44300

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· 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.

· Alloy components:

| | | |
|-------------------------------------|---|------------|
| CAS: 7440-38-2 EINECS: 231-148-6 | arsenic  T R23/25;  N R50/53  Acute Tox. 3, H301; Acute Tox. 3, H331;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 0,02-0,06% |
| CAS: 7440-50-8 EINECS: 231-159-6 | copper | 70-72,5% |
| CAS: 7440-66-6 EINECS: 231-175-3 | zinc | balance% |
| CAS: 7440-31-5 EINECS: 231-141-8 | tin | 0,9-1,3% |

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 material collected 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 fire - and explosion protection: 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 facilities:** No further data; see item 7.
- **Control parameters**
 - Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

| |
|--|
| general dust limit (A - alveolar fraction, E - respirable fraction) |
|--|

| |
|---|
| AGW (Germany) (A) 3 (E)10 mg/m ³ |
|---|

- Additional information:
The lists valid during the making were used as basis.
For the abbreviations, please refer to TRGS 900.
- **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.
 - Respiratory protection: 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

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| | |
|---|---|
| Colour: | metallic-yellow |
| · Odour: | Odourless |
| · Odour threshold: | Not determined. |
| · Change in condition | |
| Melting point/Melting range: | 890-975°C (Lit.) |
| Boiling point/Boiling range: | Undetermined. |
| · Flash point: | Not applicable. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Density at 20°C: | 8,56 g/cm ³ (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:

· LD/LC50 values relevant for classification:

7440-38-2 arsenic

| | | |
|------|------|-----------------|
| Oral | LD50 | 763 mg/kg (rat) |
|------|------|-----------------|

- Primary irritant effect
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- 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.

· Behaviour in environmental systems

- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.

· Additional ecological information

- General notes: Semi-finished articles from copper and copper-alloy are not soluble in water.

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- **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.
- European waste catalogue
12 01 03: non-ferrous metal filings and turnings
16 01 18: non-ferrous metal

14 Transport information

- **Land transport ADR/RID (cross-border)**

- ADR/RID class: -

- **Maritime transport IMDG:**

- IMDG Class: -

- **Air transport ICAO-TI and IATA-DGR:**

- ICAO/IATA Class: -

- **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**
- Chemical safety assessment: void.
- Waterhazard class: Generally not hazardous for water

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 information sheet:** Department testing laboratories
- **Contact:**
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Phone (+)49 (0)731/944-3706