

1 Identification of the article and of the company:

- **Product identifier**
- Trade name: **Wieland S23**
- 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

- **Chemical characterization: Mixtures**
- Description: Metal in compact form.
- Material code (DIN CEN/TS 13388:2008-08): CuZn23Al3Co
- Material number (DIN CEN/TS 13388:2008-08): CW703R

Trade name: Wieland S23

(Contd. of page 1)

- UNS-number: C68800
- 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: 7429-90-5 EINECS: 231-072-3	aluminium	3,0-3,8%
CAS: 7440-48-4 EINECS: 231-158-0	cobalt ☒ Xn R42/43 R53 ☠ Resp. Sens. 1, H334; Skin Sens. 1, H317; Aquatic Chronic 4, H413	0,25-0,55%
· CAS: 7440-50-8 EINECS: 231-159-6	copper	72,0-75,0%
CAS: 7440-66-6 EINECS: 231-175-3	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.

(Contd. on page 3)

Trade name: **Wieland S23**

(Contd. of page 2)

- **Environmental precautions:** Not required
- **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:

7429-90-5 aluminium

AGW (Germany)	3* 10** mg/m ³ 2(II);*alveolengängige **einatembare Fraktion; AGS
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- 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
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- 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

(Contd. on page 4)

Trade name: **Wieland S23**

(Contd. of page 3)

9 Physical and chemical properties

· Information on basic physical and chemical properties

- General Information
- Appearance:

Form:	Solid
Colour:	metallic-yellow
- Odour: Odourless
- Odour threshold: Not determined.

- Change in condition

Melting point/Melting range:	950-965°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: 8,11 g/cm³ (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:

7440-48-4 cobalt

Oral	LD50	6170 mg/kg (rat)
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- 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.

(Contd. on page 5)

Trade name: **Wieland S23**

(Contd. of page 4)

- **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.
- **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