

1 Identification of the article and of the company:

- **Product identifier**
- Trade name: **Wieland S47**
- 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): CuZn32Pb2AsFeSi
- Material number (DIN CEN/TS 13388:2008-08): CW709R
- UNS-number: -

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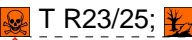
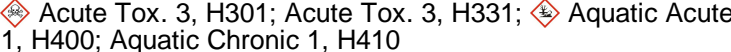
Information:

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	0,03-0,08%
CAS: 7440-50-8 EINECS: 231-159-6	copper	64,0-66,5%
CAS: 7440-66-6 EINECS: 231-175-3	zinc	balance%
CAS: 7439-92-1 EINECS: 231-100-4	lead	1,5-2,2%
CAS: 7440-21-3 EINECS: 231-130-8	silicon	0,45-0,8%
CAS: 7439-89-6 EINECS: 231-096-4	iron	0,1-0,2%

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.

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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 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 to national classifications:**
TRGS 905 (national classification Germany)
7439-92-1 lead metal (bioavailable): risk of impaired fertility (RF3), toxic to reproduction (RE1)
- **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)
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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.

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

- Change in condition

Melting point/Melting range:	910-940°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: 8,48 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:

7440-38-2 arsenic

Oral	LD50	763 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.

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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.
- **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