

### SECTION 1: Identification of the article and of the company:

- **1.1 Product identifier**
- Trade name: **Wieland L49**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- Application of the article: semi-finished product

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- **1.3 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
- **1.4 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.

### SECTION 2: Hazards identification

- **2.1 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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- **2.2 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
- **2.3 Other hazards**
- Results of PBT and vPvB assessment
- PBT: Not applicable to metals
- vPvB: Not applicable to metals.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- Description: Metal in compact form.
- Material code (DIN CEN/TS 13388:2015-08): CuNi9Sn2
- Material number (DIN CEN/TS 13388:2015-08): CW351H
- UNS-number: C72500

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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: 7440-02-0 EINECS: 231-111-4	nickel ☠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317	8,5-10,5%
CAS: 7440-50-8 EINECS: 231-159-6	copper	balance%
CAS: 7440-31-5 EINECS: 231-141-8	tin	1,8-2,8%

#### SECTION 4: First aid measures

- 4.1 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.
- 4.2 Most important symptoms and effects, both acute and delayed:**  
No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

#### SECTION 5: Firefighting measures

- 5.1 Extinguishing media**
- Suitable extinguishing agents:  
Non-flammable. Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture:**  
No further relevant information available.
- 5.3 Advice for firefighters:**
- Protective equipment: No special measures required.

#### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- 6.2 Environmental precautions:** Not required
- 6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.
- 6.4 Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:** No special measures required.
- Information about fire - and explosion protection: No special measures required.
- **7.2 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.
- **7.3 Specific end use(s):** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

#### 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

##### 7440-02-0 nickel

AGW (Germany)	Long-term value: 0,006 A mg/m <sup>3</sup> 8(II);AGS, 10, Sh, Y
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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 <sup>3</sup>
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- Additional information:  
The lists valid during the making were used as basis.  
For the abbreviations, please refer to TRGS 900.
- **8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
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

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

- General Information
- Appearance:
- Form: Solid
- Colour: silver-grey
- Odour: Odourless

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· Odour threshold:	Not determined.
· Change in condition Melting point/freezing point: Initial boiling point and boiling range:	1060-1130 °C (Lit.) Undetermined.
· Flash point:	Not applicable.
· Explosive properties:	Product does not present an explosion hazard.
· Density at 20 °C:	8,96 g/cm <sup>3</sup> (Lit.)
· Solubility in / Miscibility with water:	Not soluble.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity:** Not applicable.
- **10.2 Chemical stability:** Not applicable.
- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 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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- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable to metals.
- vPvB: Not applicable to metals.
- **12.6 Other adverse effects:** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- Recommendation: Contact manufacturer for recycling information.
- Waste disposal key:  
12 01 03: non-ferrous metal filings and turnings  
16 01 18: non-ferrous metal

### SECTION 14: Transport information

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|--|-----------------|
| · <b>14.1 UN-Number</b>  | Void            |
| · ADR, ADN, IMDG, IATA   |                 |
| · <b>14.2 UN proper shipping name</b>  | Void            |
| · ADR, ADN, IMDG, IATA   |                 |
| · <b>14.3 Transport hazard class(es)</b>   | Void            |
| · ADR, ADN, IMDG, IATA   |                 |
| · Class  |                 |
| · <b>14.4 Packing group</b>  | Void            |
| · ADR, IMDG, IATA  |                 |
| · <b>14.5 Environmental hazards:</b>   | Not applicable. |
| · <b>14.6 Special precautions for user:</b>  | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable. |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Chemical safety assessment: void.
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Waterhazard class: Generally not hazardous for water

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