

1 Identification

- **1.1 Product identifier**
 - Trade name: **Wieland Z21**
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
 - Application of the substance / the preparation: Semi-finished product
-
- **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
 - Information department:
Department Corporate EHS and Standardization Affairs
stefan.priggemeyer@wieland.com
 - **1.4 Emergency telephone number:**
Factory security offices
Phone: +49 (0) 731-944-2794

2 Hazard(s) 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.
-
- **2.2 Label elements**
 - Labelling according to Regulation (EC) No 1272/2008: Void
 - Hazard pictograms: Void
 - Signal word: Void
 - Hazard-determining components of labeling: Void
 - Hazard statements: Void
 - **2.3 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

- **3.2 Chemical characterization: Mixtures**
- Description: Metal in compact form.
- UNS-number: -
- 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.




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· Components:

CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	60.0-61.0%
CAS: 7440-66-6 EINECS: 231-175-3 RTECS: ZG 8600000	zinc	balance%
CAS: 7439-92-1 EINECS: 231-100-4 RTECS: OF 7525000	lead  Acute Tox. 3, H301;  Carc. 2, H351; Repr. 1A, H360-H362;  Acute Tox. 4, H332	1.6-2.5%

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.

5 Fire-fighting 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.

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 of the collected material according to regulations.

· **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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7 Handling and storage

- **7.1 Precautions for safe handling:** No special measures required.
- Information about protection against explosions and fires: 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.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- **8.1 Control parameters**
- Components with limit values that require monitoring at the workplace:
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

7440-50-8 copper

PEL	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
REL	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
TLV	Long-term value: 1* 0.2** mg/m ³ *dusts and mists; **fume; as Cu

7439-92-1 lead

PEL	Long-term value: 0.05* mg/m ³ *see 29 CFR 1910.1025
REL	Long-term value: 0.05* mg/m ³ *8-hr TWA ;See PocketGuide App.C
TLV	Long-term value: 0.05* mg/m ³ *and inorganic compounds, as Pb; BEI

- Ingredients with biological limit values:

7439-92-1 lead

BEI	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
	10 µg/100 ml Medium: blood Time: not critical Parameter: Lead (women of child bearing potential)

- Additional information: The lists that were valid during the creation were used as basis.

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8.2 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.
- 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

9.1 Information on basic physical and chemical properties

- General Information
- Appearance:

Form:	Solid
Color:	copper yellow
- Odor: Odorless
- Odor threshold: Not determined.
- Change in condition

Melting point/Melting range:	895-900 °C (1643-1652 °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): 8.44 g/cm³ (70.4318 lbs/gal) (Lit.)
- Solubility in / Miscibility with

Water:	Not soluble.
VOC content:	0.00 %
- **9.2 Other information** No further relevant information available.

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.

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- **10.6 Hazardous decomposition products:**
No dangerous decomposition products known.

11 Toxicological information

- **11.1 Information on toxicological effects**
- Acute toxicity: Based on available data, the classification criteria are not met.
- Primary irritant effect:
 - on the skin: Based on available data, the classification criteria are not met.
 - on the eye: Based on available data, the classification criteria are not met.
- Sensitization: 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.
- Carcinogenic categories

• IARC (International Agency for Research on Cancer)		
7439-92-1	lead	2B
• NTP (National Toxicology Program)		
7439-92-1	lead	R
• OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

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:
For semi-finished products in copper or copper-alloys no information regarding ecology is suitable, as it is not soluble in water.
- **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.

13 Disposal considerations

- **13.1 Waste treatment methods**
- Recommendation: Contact manufacturer for recycling information.

14 Transport information

• 14.1 UN-Number	
• DOT, ADR, ADN, IMDG, IATA	Void

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<ul style="list-style-type: none"> • 14.2 UN proper shipping name 	DOT, ADR, ADN, IMDG, IATA	Void
<ul style="list-style-type: none"> • 14.3 Transport hazard class(es) 	DOT, ADR, ADN, IMDG, IATA	Void
<ul style="list-style-type: none"> • Class 		Void
<ul style="list-style-type: none"> • 14.4 Packing group 	DOT, ADR, IMDG, IATA	Void
<ul style="list-style-type: none"> • 14.5 Environmental hazards: 	Marine pollutant:	No
<ul style="list-style-type: none"> • 14.6 Special precautions for user: 		Not applicable.
<ul style="list-style-type: none"> • 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: 		Not applicable.

15 Regulatory information

<ul style="list-style-type: none"> • 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture 			
<ul style="list-style-type: none"> • Sara 			
<ul style="list-style-type: none"> • Section 355 (extremely hazardous substances): 	None of the ingredients is listed.		
<ul style="list-style-type: none"> • Section 313 (Specific toxic chemical listings): 	All ingredients are listed.		
<ul style="list-style-type: none"> • TSCA (Toxic Substances Control Act): 	All ingredients are listed.		
<ul style="list-style-type: none"> • Proposition 65 			
<ul style="list-style-type: none"> • Chemicals known to cause cancer: 	7439-92-1	lead	
<ul style="list-style-type: none"> • Chemicals known to cause reproductive toxicity for females: 	7439-92-1	lead	
<ul style="list-style-type: none"> • Chemicals known to cause reproductive toxicity for males: 	7439-92-1	lead	
<ul style="list-style-type: none"> • Chemicals known to cause developmental toxicity: 	7439-92-1	lead	
<ul style="list-style-type: none"> • Cancerogenity categories 			
<ul style="list-style-type: none"> • EPA (Environmental Protection Agency) 	7440-50-8	copper	D
	7440-66-6	zinc	D, I, II
	7439-92-1	lead	B2
<ul style="list-style-type: none"> • TLV (Threshold Limit Value established by ACGIH) 	7439-92-1	lead	A3

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- NIOSH-Ca (National Institute for Occupational Safety and Health)
- 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 SDS: Department Corporate EHS and Standardization Affairs
- Contact:
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- Date of preparation / last revision 02/22/2018 / 9
- * Data compared to the previous version altered.

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