

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- Trade name: **Wieland GC3**
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation: 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
- Information department:
Department testing laboratories
michael.ebner@wieland.de
- Emergency telephone number:
Factory security offices
Phone: +49 (0) 731-944-3706

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:
The product does not have to be labelled due to the calculation procedure of international guidelines.
- 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**
- 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

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

(Contd. on page 2)

USA

Printing date 08/09/2011

Version - No. 3

Reviewed on 08/09/2011

Trade name: Wieland GC3

(Contd. of page 1)

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.

· Components:

CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	85.0-88.5%
CAS: 7440-31-5 EINECS: 231-141-8 RTECS: XP 7320000	tin	11.0-13.0%
CAS: 7440-02-0 EINECS: 231-111-4 RTECS: QR 5950000	nickel ⚠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317	0-2.0%
CAS: 7439-92-1 EINECS: 231-100-4 RTECS: OF 7525000	lead	0-0.7%

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

(Contd. on page 3)

Trade name: **Wieland GC3**

(Contd. of page 2)

- **Methods and material for containment and cleaning up:**
Dispose of the collected material 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 protection against explosions and fires: 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 systems:** No further data; see item 7.
- **Control parameters**

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

7440-50-8 copper

PEL	1* 0.1** mg/m ³ as Cu *dusts and mists **fume
REL	1* 0.1** mg/m ³ as Cu *dusts and mists **fume
TLV	1* 0.2** mg/m ³ *dusts and mists; **fume; as Cu

7440-31-5 tin

PEL	2 mg/m ³ metal
REL	2 mg/m ³
TLV	2 mg/m ³ metal

7440-02-0 nickel

PEL	1 mg/m ³
REL	0.015 mg/m ³ as Ni; See Pocket Guide App. A
TLV	1.5* 0.2** 0.1*** mg/m ³ inhal.fraction;*elemental;**insol.,***sol.compds.

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

(Contd. on page 4)

Printing date 08/09/2011

Version - No. 3

Reviewed on 08/09/2011

Trade name: **Wieland GC3**

(Contd. of page 3)

- 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
Color:	copper red
- Odor: Odorless
- Odour threshold: Not determined.
- Change in condition

Melting point/Melting range:	830-1000°C (1526-1832 ° 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): 8.8 g/cm³ (73.436 lbs/gal) (Lit.)
- Solubility in / Miscibility with

Water:	Not soluble.
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- **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:
- Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- 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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(Contd. on page 5)

Printing date 08/09/2011

Version - No. 3

Reviewed on 08/09/2011

Trade name: **Wieland GC3**

(Contd. of page 4)

12 Ecological information

- **Toxicity**
- Aquatic toxicity: No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- Bioaccumulative potential: No further relevant information available.
- 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.
- **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.

14 Transport information

- | | |
|---|-----------------|
| · UN-Number | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · ADR, ADN | Void |
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · 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**
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· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 6)

USA

Trade name: **Wieland GC3**

(Contd. of page 5)

· Section 313 (Specific toxic chemical listings):	
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7440-50-8	copper
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7440-02-0	nickel
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7439-92-1	lead
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· TSCA (Toxic Substances Control Act):	
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All ingredients are listed.	
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· Proposition 65	
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· Chemicals known to cause cancer:	
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7440-02-0	nickel
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7439-92-1	lead
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· Chemicals known to cause reproductive toxicity for females:	
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7439-92-1	lead
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· Chemicals known to cause reproductive toxicity for males:	
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7439-92-1	lead
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· Chemicals known to cause developmental toxicity:	
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7439-92-1	lead
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· Cancerogenity categories	
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· EPA (Environmental Protection Agency)	
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7440-50-8	copper	D
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7439-92-1	lead	B2
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· IARC (International Agency for Research on Cancer)	
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7440-02-0	nickel	2B
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7439-92-1	lead	2B
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· NTP (National Toxicology Program)	
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7440-02-0	nickel	R
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7439-92-1	lead	R
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· TLV (Threshold Limit Value established by ACGIH)	
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7440-02-0	nickel	A5
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7439-92-1	lead	A3
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· NIOSH-Ca (National Institute for Occupational Safety and Health)	
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7440-02-0	nickel
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· OSHA-Ca (Occupational Safety & Health Administration)	
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None of the ingredients is listed.	
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· Chemical safety assessment void.	
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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 MSDS: Department testing laboratories

· Contact:

Dr. Michael Ebner

Phone (+)49 (0)731/944-3706

· * Data compared to the previous version altered.
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