

## 1 Identification

### · Product identifier

- Trade name: **Wieland NA7**
- 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

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### · 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 Hazard(s) 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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### · 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
- **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.
- 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.
- Components:  
Mentioned percentages are references values.

(Contd. on page 2)

—USA—

Trade name: **Wieland NA7**

(Contd. of page 1)

CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	60%
CAS: 7440-02-0 EINECS: 231-111-4	nickel ⚠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317	3%
CAS: 7440-66-6 EINECS: 231-175-3 RTECS: ZG 8600000	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 Fire-fighting 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
- **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.

(Contd. on page 3)

Trade name: **Wieland NA7**

(Contd. of page 2)

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

### 7440-02-0 nickel

PEL	Long-term value: 1 mg/m <sup>3</sup>
REL	Long-term value: 0.015 mg/m <sup>3</sup> as Ni; See Pocket Guide App. A
TLV	Long-term value: 1.5* mg/m <sup>3</sup> elemental, *inhalable fraction

- Additional Occupational Exposure Limit Values for possible hazards during processing:

### 1314-13-2 zinc oxide

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction and fume
REL	Short-term value: C 15* 10** mg/m <sup>3</sup> Long-term value: 5* 5** mg/m <sup>3</sup> *dust only **fume
TLV	Short-term value: 10* mg/m <sup>3</sup> Long-term value: 2* mg/m <sup>3</sup> *as respirable fraction

- 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.
- 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.

USA

(Contd. on page 4)

Trade name: **Wieland NA7**

(Contd. of page 3)

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

- General Information
- Appearance:
 

Form:	Solid
Color:	silver-grey
- Odor: Odorless
- Odour threshold: Not determined.

- Change in condition
 

Melting point/Melting range:	880-910 °C (1616-1670 ° 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): 8.43 g/cm<sup>3</sup> (70.348 lbs/g al)

- 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: 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.
- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

7440-02-0	nickel	1
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- NTP (National Toxicology Program)

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Trade name: **Wieland NA7**

(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

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|---|-----------------|
| · <b>UN-Number</b>  | Void            |
| · DOT, ADR, ADN, IMDG, IATA   | Void            |
| · <b>UN proper shipping name</b>  | Void            |
| · DOT, ADR, ADN, IMDG, IATA   | Void            |
| · <b>Transport hazard class(es)</b>   | Void            |
| · DOT, ADR, ADN, IMDG, IATA   | Void            |
| · Class   | Void            |
| · <b>Packing group</b>  | Void            |
| · DOT, ADR, IMDG, IATA  | Void            |
| · <b>Environmental hazards:</b>   | No              |
| · Marine pollutant:   | No              |
| · <b>Special precautions for user:</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | 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):
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None of the ingredients is listed.
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· Section 313 (Specific toxic chemical listings):
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All ingredients are listed.
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USA

Trade name: **Wieland NA7**

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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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· Chemicals known to cause reproductive toxicity for females:
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None of the ingredients is listed.
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· Chemicals known to cause reproductive toxicity for males:
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None of the ingredients is listed.
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· Chemicals known to cause developmental toxicity:
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None of the ingredients is listed.
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· Cancerogenity categories
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· EPA (Environmental Protection Agency)
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7440-66-6	zinc	D,I,II
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· TLV (Threshold Limit Value established by ACGIH)
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7440-02-0	nickel	A5
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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.