

## 1 Identification

### 1.1 Product identifier

Trade name: **Wieland F12**

### 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 testing laboratories

michael.ebner@wieland.de

### 1.4 Emergency telephone number:

Factory security offices

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

## 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.

Components:

Mentioned percentages are reference values.

(Contd. on page 2)

US

Trade name: **Wieland F12**

(Contd. of page 1)

CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	balance%
CAS: 7439-96-5 EINECS: 231-105-1 RTECS: OO 9275000	manganese	12%
CAS: 7440-02-0 EINECS: 231-111-4	nickel ☠ Carc. 2, H351; STOT RE 1, H372; ☠ Skin Sens. 1, H317	2%

#### 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 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.

See Section 13 for disposal information.

#### 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.

(Contd. on page 3)

Trade name: **Wieland F12**

(Contd. of page 2)

- **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:

#### 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

#### 7439-96-5 manganese

PEL	Ceiling limit value: 5 mg/m <sup>3</sup> as Mn
REL	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> fume, as Mn
TLV	Long-term value: 0.02* 0.1* mg/m <sup>3</sup> as Mn; *respirable **inhalable fraction

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

### · 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.
- 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.

US

(Contd. on page 4)

Trade name: **Wieland F12**

(Contd. of page 3)

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- General Information
- Appearance:
  - Form: Solid
  - Color: silver
- Odor: Odorless
- Odor threshold: Not determined.

- Change in condition
  - Melting point/Melting range: 960 °C (1760 °F) (Lit.)
  - Boiling point/Boiling range: 1962 °C (3564 °F)

- Flash point: Not applicable.

- Danger of explosion: Product does not present an explosion hazard.

- Density at 20 °C (68 °F): 8.4 g/cm<sup>3</sup> (70.098 lbs/gal) (Lit.)

- Solubility in / Miscibility with

- Water: Not soluble.
- **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.
- **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)

7440-02-0 nickel

2B

- NTP (National Toxicology Program)

7440-02-0 nickel

R

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

US

(Contd. on page 5)

Trade name: **Wieland F12**

(Contd. of page 4)

## 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

- |  |                 |
|--|-----------------|
| • <b>14.1 UN-Number</b>  | Void            |
| • DOT, ADR, ADN, IMDG, IATA  |                 |
| • <b>14.2 UN proper shipping name</b>  | Void            |
| • DOT, ADR, ADN, IMDG, IATA  |                 |
| • <b>14.3 Transport hazard class(es)</b>   | Void            |
| • DOT, ADR, ADN, IMDG, IATA  |                 |
| • Class  |                 |
| • <b>14.4 Packing group</b>  | Void            |
| • DOT, ADR, IMDG, IATA   |                 |
| • <b>14.5 Environmental hazards:</b>   | No              |
| • Marine pollutant:  |                 |
| • <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. |

## 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Sara
- |   |                                    |
|---|------------------------------------|
| • Section 355 (extremely hazardous substances):   | None of the ingredients is listed. |
| • Section 313 (Specific toxic chemical listings): | All ingredients are listed.        |

(Contd. on page 6)

US

Trade name: **Wieland F12**

(Contd. of page 5)

· TSCA (Toxic Substances Control Act):
--

All ingredients are listed.
-----------------------------

· Proposition 65
------------------

· Chemicals known to cause cancer:
------------------------------------

7440-02-0	nickel
-----------	--------

· Chemicals known to cause reproductive toxicity for females:
---

None of the ingredients is listed.
------------------------------------

· Chemicals known to cause reproductive toxicity for males:
---

None of the ingredients is listed.
------------------------------------

· Chemicals known to cause developmental toxicity:
--

None of the ingredients is listed.
------------------------------------

· Cancerogenity categories
----------------------------

· EPA (Environmental Protection Agency)
---

7440-50-8	copper	D
-----------	--------	---

7439-96-5	manganese	D
-----------	-----------	---

· TLV (Threshold Limit Value established by ACGIH)
--

7440-02-0	nickel	A5
-----------	--------	----

· NIOSH-Ca (National Institute for Occupational Safety and Health)
--

7440-02-0	nickel
-----------	--------

· 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 testing laboratories
---

· Contact:
------------

Dr. Michael Ebner
-------------------

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

· Date of preparation / last revision 08/23/2017 / 2
--

· * Data compared to the previous version altered.
--