

1 Identification

- **1.1 Product identifier**
 - Trade name: **Wieland F14**
 - **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 references values.

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| | | |
|--|--|----------|
| 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 | 13% |
| 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.

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- **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 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 |

7439-96-5 manganese

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

7440-02-0 nickel

| | |
|-----|--|
| PEL | Long-term value: 1 mg/m ³ |
| REL | Long-term value: 0.015 mg/m ³ as Ni; See Pocket Guide App. A |
| TLV | Long-term value: 1.5* mg/m ³ 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.

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information
- Appearance:

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

- Change in condition

| | |
|------------------------------|----------------------------------|
| Melting point/Melting range: | 931-977 °C (1708-1791 °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): 8.36 g/cm³ (69.764 lbs/g al) (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. |
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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 | Void |
| · DOT, ADR, ADN, IMDG, IATA | |
| · 14.2 UN proper shipping name | Void |
| · DOT, ADR, ADN, IMDG, IATA | |
| · 14.3 Transport hazard class(es) | Void |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | |
| · 14.4 Packing group | Void |
| · DOT, ADR, IMDG, IATA | |
| · 14.5 Environmental hazards: | Not applicable. |
| · 14.6 Special precautions for user: | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | 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.
- TSCA (Toxic Substances Control Act):
All ingredients are listed.

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- Proposition 65

- Chemicals known to cause cancer:

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

- Chemicals known to cause reproductive toxicity for females:

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|------------------------------------|--|
| 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. | |
|------------------------------------|--|

- Carcinogen 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

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

- * Data compared to the previous version altered.