

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

· Product identifier

- Trade name: **Wieland M16**
- 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.

-
- 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
-

· 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: C23000
- 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.

(Contd. on page 2)

Printing date 07/29/2011

Version - No. 3

Reviewed on 07/29/2011

Trade name: **Wieland M16**

(Contd. of page 1)

| | | |
|--|--------|------------|
| · Components: | | |
| CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000 | copper | 84.0-86.0% |
| 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 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

- **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.

(Contd. on page 3)

Printing date 07/29/2011

Version - No. 3

Reviewed on 07/29/2011

Trade name: **Wieland M16**

(Contd. of page 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.
- **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 |

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

1314-13-2 zinc oxide

| | |
|-----|--|
| PEL | 15* 5** 5*** mg/m ³ *total dust **respirable dust ***fume |
| REL | Short-term value: C 15* 10** mg/m ³ Long-term value: 5* 5** mg/m ³ *dust only **fume |
| TLV | Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *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.

9 Physical and chemical properties

Information on basic physical and chemical properties

- General Information
- Appearance:

| | |
|------------------|-----------------|
| Form: | Solid |
| Color: | copper yellow |
| Odor: | Odorless |
| Odour threshold: | Not determined. |

(Contd. on page 4)

Printing date 07/29/2011

Version - No. 3

Reviewed on 07/29/2011

Trade name: **Wieland M16**

(Contd. of page 3)

- Change in condition
Melting point/Melting range: 1005-1025°C (1841-1877 °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): 8.74 g/cm³ (72.935 lbs/gal) (Lit.)

- Solubility in / Miscibility with
Water:

Not soluble.

- **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.

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.

USA

(Contd. on page 5)

Printing date 07/29/2011

Version - No. 3

Reviewed on 07/29/2011

Trade name: **Wieland M16**

(Contd. of page 4)

13 Disposal considerations

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

14 Transport information

- | | |
|---|-----------------|
| · UN-Number | Void |
| · DOT, ADR, ADN, IMDG, IATA | |
| · UN proper shipping name | Void |
| · ADR, ADN | |
| · Transport hazard class(es) | Void |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | |
| · Packing group | Void |
| · DOT, ADR, IMDG, IATA | |
| · 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**

- 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.

- Proposition 65

- Chemicals known to cause cancer:

None of the ingredients is listed.

- 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

(Contd. on page 6)

Printing date 07/29/2011

Version - No. 3

Reviewed on 07/29/2011

Trade name: **Wieland M16**

(Contd. of page 5)

| | | |
|--|------|----|
| 7440-66-6 | zinc | II |
| · IARC (International Agency for Research on Cancer) | | |
| None of the ingredients is listed. | | |
| · NTP (National Toxicology Program) | | |
| None of the ingredients is listed. | | |
| · TLV (Threshold Limit Value established by ACGIH) | | |
| None of the ingredients is listed. | | |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | | |
| None of the ingredients is listed. | | |
| · OSHA-Ca (Occupational Safety & Health Administration) | | |
| 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 MSDS:** Department testing laboratories

· **Contact:**

Dr. Michael Ebner

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

· * Data compared to the previous version altered.

USA