

SECTION 1: Identification of the article and of the company:

- **1.1 Product identifier**
 - Trade name: **Wieland SnTop**
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
 - Application of the article: Metallic coatings on a 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
 - Further information obtainable from:
Department Corporate EHS and Standardization Affairs
stefan.priggemeyer@wieland.com
 - **1.4 Information in case of emergency:**
Factory security offices
Phone: +49 (0) 731-944-2794
 - Remarks for information sheet:
Metallic coatings are an integral part of on semi-finished products made from copper and copper alloys.
Semi-finished products with metallic coatings are articles according to Regulation (EC) No.1907/2006 (REACH-Regulation).
For articles there is no legal obligation to issue a safety data sheet. However, to be able to provide information typically included in a safety data sheet also for products, the present information sheet for articles has been worked out.
We expressly point out, that the information sheet for articles is a voluntarily issued information sheet which is not subject requirement of the REACH-Regulation.

SECTION 2: Hazards 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 labelling: Void
 - Hazard statements: Void
 - **2.3 Other hazards**
 - Results of PBT and vPvB assessment
 - PBT: Not applicable to metals
 - vPvB: Not applicable to metals.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- Description: Metal in compact form.
- Material code (DIN CEN/TS 13388:2015-08): -
- Material number (DIN CEN/TS 13388:2015-08): -



Trade name: Wieland SnTop

(Contd. of page 1)

- UNS-number: -
- Information:

The classifications mentioned below reflect the classification of the respective pure substance and are for information only. Metallic coatings are special preparations according to Regulation (EC) 1907/2006 (REACH Regulation). The classification of a pure substance is not applicable to its use as a constituent of a metallic coating. Further information concerning the semi-finished product are given in the information sheet for articles of the respective semi-finished product.

- Alloy components:

CAS: 7440-22-4 EINECS: 231-131-3	silver	substance with a Community workplace exposure limit	4.0%
CAS: 7440-31-5 EINECS: 231-141-8	tin		balance%
CAS: 7440-50-8 EINECS: 231-159-6	copper		max.4,0%
CAS: 7439-92-1 EINECS: 231-100-4	lead	 Repr. 1A, H360FD-H362;  Acute Tox. 4, H302; Acute Tox. 4, H332	max.0,1%

SECTION 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.

SECTION 5: Firefighting 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.

SECTION 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 of the material collected according to regulations.

(Contd. on page 3)

Trade name: Wieland SnTop

(Contd. of page 2)

- **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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:** No special precautions are necessary if used correctly.
- **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.

SECTION 8: Exposure controls/personal protection

- Additional information to national classifications:
TRGS 905 (national classification Germany)
7439-92-1 lead metal (bioavailable): Toxic to reproduction (RF2); (RD1A).
- Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

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

7440-31-5 tin

MAK (Germany)	vgl. Abschn. IIb
---------------	------------------

7440-22-4 silver

AGW (Germany)	Long-term value: 0.1 E mg/m ³ 8(II); DFG, EU
IOELV (EU)	Long-term value: 0.1 mg/m ³

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

general dust limit (A - alveolar fraction, E - respirable fraction)

AGW (Germany)	(A) 3 (E) 10 mg/m ³
---------------	--------------------------------

- Additional information:
The lists valid during the making were used as basis.
For the abbreviations, please refer to TRGS 900.

· 8.2 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.
- Respiratory protection: 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

(Contd. on page 4)

Trade name: **Wieland SnTop**

(Contd. of page 3)

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

- General Information
- Appearance:

Form:	Solid
Colour:	silver
- Odour: Odourless
- Odour threshold: Not determined.

- Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

- Flash point: Not applicable.

- Explosive properties: Product does not present an explosion hazard.

- Density: Not determined.

- Solubility in / Miscibility with water: Not soluble.

- **9.2 Other information** No further relevant information available.

SECTION 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.

SECTION 11: Toxicological information

• 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

• 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.

(Contd. on page 5)

Trade name: **Wieland SnTop**

(Contd. of page 4)

- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- Additional ecological information
- General notes: Metallic coatings on a semi-finished product are insoluble 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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- Recommendation: Contact manufacturer for recycling information.
- Waste disposal key:
12 01 03: non-ferrous metal filings and turnings
16 01 18: non-ferrous metal

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |
| · 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. |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Chemical safety assessment: void.
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Waterhazard class: Generally not hazardous for water

SECTION 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 information sheet: Department Corporate EHS and Standardization Affairs

(Contd. on page 6)

Trade name: Wieland SnTop

(Contd. of page 5)

- Contact:
Dr. Stefan Priggemeyer
Phone (+)49 (0)731/944-2794
- * Data compared to the previous version altered.

w