

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

- **Product identifier**
- Trade name: **Wieland SnTop**
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation: Metallic coatings on a 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.
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- 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.
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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 labelling: Void
- Hazard statements: Void
- **Other hazards**
- 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: -
- 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.

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· Components:		
CAS: 7440-31-5 EINECS: 231-141-8 RTECS: XP 7320000	tin	balance%
CAS: 7440-22-4 EINECS: 231-131-3	silver	4.0%
CAS: 7440-50-8 EINECS: 231-159-6 RTECS: GL 5325000	copper	max. 2.0%
CAS: 7439-92-1 EINECS: 231-100-4 RTECS: OF 7525000	lead	max. 0.1%

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:** No special measures 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.

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See Section 13 for disposal information.

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7 Handling and storage

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

7440-31-5 tin

PEL	2 mg/m ³ metal
REL	2 mg/m ³
TLV	2 mg/m ³ metal

7440-22-4 silver

PEL	0.01 mg/m ³ metal and soluble compounds (as Ag)
REL	0.01 mg/m ³
TLV	0.1 mg/m ³ metal: dust and fume

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 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.

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- 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:	silver
- Odor: Odorless
- Odour threshold: Not determined.

- Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

- Flash point: Not applicable.

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

- Density: Not determined.

- 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.

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.

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- Mobility in soil: No further relevant information available.
- **Additional ecological information**
- General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Metallic coatings on a semi-finished product are insoluble 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

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

7440-22-4	silver
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7440-50-8	copper
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7439-92-1	lead
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· TSCA (Toxic Substances Control Act):
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All ingredients are listed.

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· Proposition 65

· Chemicals known to cause cancer:

7439-92-1 | lead

· Chemicals known to cause reproductive toxicity for females:

7439-92-1 | lead

· Chemicals known to cause reproductive toxicity for males:

7439-92-1 | lead

· Chemicals known to cause developmental toxicity:

7439-92-1 | lead

· Cancerogenity categories

· EPA (Environmental Protection Agency)

7440-22-4 | silver

D

7440-50-8 | copper

D

7439-92-1 | lead

B2

· IARC (International Agency for Research on Cancer)

7439-92-1 | lead

2B

· NTP (National Toxicology Program)

7439-92-1 | lead

R

· TLV (Threshold Limit Value established by ACGIH)

7439-92-1 | lead

A3

· 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.