

# Safety data sheet

according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 09.04.2019

Version number 3

Revision: 16.08.2018

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier**

Trade name: **FELDER Tinner "bleifrei"**  
**FELDER Tinner lead-free**  
**Sn97Cu3**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

*No further relevant information available.*

**Application of the substance / the mixture** *Auxiliary*

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

*Felder GmbH*  
*Im Lipperfeld 11*  
*D-46047 Oberhausen*

*Tel.: +49 (0)208/ 85035-0*

*Fax.: +49 (0)208/ 26080*

*http://www.felder.de*

*e-mail: info@felder.de*

**Further information obtainable from:**

*lab*

*(mo-thu. 8:00 a.m. - 4:00 p.m./ fr. 8:00 a.m. - 1:00 p.m.)*

*email: mprobst@felder.de*

**1.4 Emergency telephone number:** *Not necessary, due to the fact that the product does not need to be labelled.*

## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

*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 statements** *Void*

**Additional information:**

*Safety data sheet available on request.*

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** *Not applicable.*

**vPvB:** *Not applicable.*

## SECTION 3: Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures**

**Description:** *Mixture: consisting of the following components.*

**Dangerous components:**

CAS: 7440-50-8	copper	substance with a Community workplace exposure limit	<2.5%
EINECS: 231-159-6			
Reg.nr.: 01-2119480154-42			

**Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

**General information:** *No special measures required.*

**After inhalation:** *Supply fresh air; consult doctor in case of complaints.*

**After skin contact:** *Generally the product does not irritate the skin.*

**After eye contact:** *Rinse opened eye for several minutes under running water.*

**After swallowing:**

*Rinse out mouth and then drink plenty of water.*

*Seek medical treatment.*

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**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:** *CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.*  
**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:** *Do not allow to enter sewers/ surface or ground water.*  
**6.3 Methods and material for containment and cleaning up:** *Pick up mechanically.*  
**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**  
*Ensure that suitable extractors are available on processing machines*  
*No special measures required.*  
**Information about fire - and explosion protection:** *No special measures required.*  
**7.2 Conditions for safe storage, including any incompatibilities**  
**Storage:**  
**Requirements to be met by storerooms and receptacles:** *No special requirements.*  
**Information about storage in one common storage facility:** *Store away from foodstuffs.*  
**Further information about storage conditions:** *Store in dry conditions.*  
**Storage class:** 13  
**7.3 Specific end use(s)** *No further relevant information available.*

## SECTION 8: Exposure controls/personal protection

**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:	
<b>7440-31-5 tin</b>	
MAK (Germany)	vgl. Abschn. IIb
<b>14808-60-7 Quartz (SiO<sub>2</sub>)</b>	
BOELV (EU)	Long-term value: 0.1* mg/m <sup>3</sup> *respirable fraction
MAK (Germany)	alveolengängige Fraktion
<b>7440-50-8 copper</b>	
MAK (Germany)	Long-term value: 0.01 A mg/m <sup>3</sup> als Cu

### Regulatory information

MAK (Germany): MAK- und BAT-Liste  
 BOELV (EU): 2004/37/EG (EU/2019/130)  
**recommended monitoring procedures in accordance with 453/2010/EU no. 8.1.2:**  
 7440-50-8 copper: BIA 7755 (D), NIOSH 7301 (E), MétoPol Fiche 003 (F), MTA/MA-025/A92 (ESP)  
**Additional information:** *The lists valid during the making were used as basis.*

### 8.2 Exposure controls

**Appropriate engineering controls:** *Not required if no contact.*

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**Personal protective equipment:****General protective and hygienic measures:***Avoid skin contact with the liquefied material.**Do not eat, drink, smoke or sniff while working.***Respiratory protection:** *Not required.***Protection of hands:***Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation***Material of gloves***Nitrile rubber, NBR**Natural rubber, NR**The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.**Recommended thickness of the material:  $\geq 0.2$  mm***Penetration time of glove material***The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.**The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.**Value for the permeation: Level  $\leq 6$* **Eye protection:** *Not required.*

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	<i>Solid</i>
<b>Colour:</b>	<i>Grey</i>
<b>Odour:</b>	<i>Characteristic</i>
<b>Odour threshold:</b>	<i>Not determined.</i>

**pH-value:** *Not applicable.*

**Change in condition**

<b>Melting point/freezing point:</b>	<i>Not determined</i>
<b>Initial boiling point and boiling range:</b>	<i>Undetermined.</i>
<b>Flash point:</b>	<i>Not applicable.</i>
<b>Flammability (solid, gas):</b>	<i>Not determined.</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>
<b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
<b>Explosive properties:</b>	<i>Product does not present an explosion hazard.</i>

**Explosion limits:**

<b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>

**Vapour pressure:** *Not applicable.*

**Density at 20 °C:** *2.17 g/cm<sup>3</sup>*

**Relative density** *Not determined.*

**Vapour density** *Not applicable.*

**Evaporation rate** *Not applicable.*

**Solubility in / Miscibility with**

**water:** *Insoluble.*

**Partition coefficient: n-octanol/water:** *Not determined.*

**Viscosity:**

<b>Dynamic:</b>	<i>Not applicable.</i>
<b>Kinematic:</b>	<i>Not applicable.</i>

**Solvent content:**

<b>Organic solvents:</b>	<i>0.0 %</i>
<b>Water:</b>	<i>1.0 %</i>
<b>VOC (EC)</b>	<i>0.0 %</i>
	<i>0.00 %</i>
<b>Solids content:</b>	<i>99.0 %</i>

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**9.2 Other information**

No further relevant information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions** Reacts with acids, alkalis and oxidising agents.**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.**Other information:** The product is not easily biodegradable.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (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.

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****European waste catalogue**

17 04 09\*: metal waste contaminated with hazardous substances

cleaned metallic packaging:

15 01 04: metallic packaging

overpack:

15 01 01: paper and cardboard packaging

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.

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**Recommended cleansing agents:**

*Remove residues mechanically, clean the packaging with soap solution or with alcohol.*

## SECTION 14: Transport information

<b>14.1 UN-Number</b>	
<b>ADR, ADN, IMDG, IATA</b>	Void
<b>14.2 UN proper shipping name</b>	
<b>ADR, ADN, IMDG, IATA</b>	Void
<b>14.3 Transport hazard class(es)</b>	
<b>ADR, ADN, IMDG, IATA</b>	
<b>Class</b>	Void
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	Void
<b>14.5 Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation":</b>	Void

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 65

**National regulations:**Information about limitation of use: *Employment restrictions concerning juveniles must be observed.*Waterhazard class: *Water hazard class 1 (Self-assessment): slightly hazardous for water.***15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**Reasons for changes:**30.05.2016: *adaption to Regulation 430/2010/EC, 830/2015/EU, 2012/18/EU*16.08.2018: *chapter 12, 13***Contact:** *Dr. M. Probst***Abbreviations and acronyms:**RID: *Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*IATA-DGR: *Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*ICAO: *International Civil Aviation Organisation*ICAO-TI: *Technical Instructions by the "International Civil Aviation Organisation" (ICAO)*ADR: *Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*IMDG: *International Maritime Code for Dangerous Goods*IATA: *International Air Transport Association*GHS: *Globally Harmonised System of Classification and Labelling of Chemicals*EINECS: *European Inventory of Existing Commercial Chemical Substances*ELINCS: *European List of Notified Chemical Substances*CAS: *Chemical Abstracts Service (division of the American Chemical Society)*VOC: *Volatile Organic Compounds (USA, EU)*PBT: *Persistent, Bioaccumulative and Toxic*vPvB: *very Persistent and very Bioaccumulative***Safety data sheet SD3130**