

# Safety data sheet

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

Printing date 15.08.2018

Version number 2

Revision: 14.08.2018

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

**1.1 Product identifier**

**Trade name:** Soft solder and tinning paste PbSn(Sb), SnPb(Sb)  
 Weichlöt und Verzinnungspaste PbSn(Sb), SnPb(Sb)  
 Sn 20,0-80,0%, Pb 20,0-80,0%, Sb 0,5-2,0%  
 Sn60Pb40, Pb60Sn40, Pb74Sn25Sb1

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

No further relevant information available.

**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:**

24 hr. emergency information:

Poison emergency call Berlin

"Giftnotruf Berlin"

Tel.: 0049-30-30686 790

### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Repr. 1A      H360FD-H362      May damage fertility. May damage the unborn child. May cause harm to breast-fed children.

STOT RE 1      H372      Causes damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Skin Corr. 1B      H314      Causes severe skin burns and eye damage.

Eye Dam. 1      H318      Causes serious eye damage.



GHS09 environment

Aquatic Chronic 1      H410      Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4      H302      Harmful if swallowed.

Acute Tox. 4      H332      Harmful if inhaled.

STOT SE 3      H335      May cause respiratory irritation.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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**Hazard pictograms**

GHS05 GHS07 GHS08 GHS09

**Signal word** *Danger***Hazard-determining components of labelling:***lead**zinc chloride**Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts**Isotridecanol 6EO***Hazard statements***H302+H332 Harmful if swallowed or if inhaled.**H314 Causes severe skin burns and eye damage.**H360FD-H362 May damage fertility. May damage the unborn child. May cause harm to breast-fed children.**H335 May cause respiratory irritation.**H372 Causes damage to organs through prolonged or repeated exposure.**H410 Very toxic to aquatic life with long lasting effects.***Precautionary statements***P263 Avoid contact during pregnancy and while nursing.**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P403+P233 Store in a well-ventilated place. Keep container tightly closed.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***Additional information:***Restricted to professional users.***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: 7439-92-1 EINECS: 231-100-4 Reg.nr.: 01-2119513221-59	lead ⚠ Repr. 1A, H360FD-H362; STOT RE 1, H372; ⚠ Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	<50%
CAS: 7646-85-7 EINECS: 231-592-0 Reg.nr.: 01-2119472431-44	zinc chloride ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<10%
CAS: 68411-30-3 EINECS: 270-115-0 Reg.nr.: 01-2119489428-22	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	<10%
CAS: 69011-36-5 Reg.nr.: <1t/year	Isotridecanol 6EO ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	<5%
CAS: 12125-02-9 EINECS: 235-186-4 Reg.nr.: 01-2119487950-27	ammonium chloride ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	<2.5%
<b>SVHC</b>		
7439-92-1	lead	

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

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information:

*Immediately remove any clothing soiled by the product.*

*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

##### After inhalation:

*Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.*

*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. Then consult a doctor.*

##### After swallowing:

*Call for a doctor immediately.*

*Drink plenty of water and provide fresh air. Call for a doctor immediately.*

**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:** *Use fire extinguishing methods suitable to surrounding conditions.*

**5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*

#### 5.3 Advice for firefighters

**Protective equipment:** *Mouth respiratory protective device.*

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

*Wear protective equipment. Keep unprotected persons away.*

**6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*

#### 6.3 Methods and material for containment and cleaning up:

*Use neutralising agent.*

*Dispose contaminated material as waste according to item 13.*

*Ensure adequate ventilation.*

#### 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

*Thorough dedusting.*

*Ensure good ventilation/exhaustion at the workplace.*

**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:** *Not required.*

**Further information about storage conditions:** *Keep container tightly sealed.*

**Storage class:** 6.1 C

**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.*

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## 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
<b>7439-92-1 lead</b>	
AGW (EU)	Long-term value: 0.15 mg/m <sup>3</sup>
BOELV (EU)	Long-term value: 0.15 mg/m <sup>3</sup> as Pb
MAK (Germany)	vgl. Abschn. XII
<b>7440-31-5 tin</b>	
MAK (Germany)	vgl. Abschn. IIb
<b>7646-85-7 zinc chloride</b>	
MAK (Germany)	Long-term value: 0.1A* 2E** mg/m <sup>3</sup> *alveolengängig; **eintatbar

### Regulatory information

BOELV (EU): 98/24/EG

MAK (Germany): MAK- und BAT-Liste

**recommended monitoring procedures in accordance with 453/2010/EU no. 8.1.2:**

7439-92-1 lead: NIOSH 7702(E), OSHA 1006(E), OSHA ID-206(E)

7646-85-7 zinc chloride: NIOSH 7300, 7301, 7303(E) "Zinc", OSHA, ID-121(E)

Ingredients with biological limit values:	
<b>7439-92-1 lead</b>	
BAT (EU)	70 µg/dl blood lead
BGW (Germany)	300 µg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: keine Beschränkung Parameter: Blei Frauen < 45 J.  400 µg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: keine Beschränkung Parameter: Blei

**Regulatory information BGW (Germany): TRGS 903****Additional information:** The lists valid during the making were used as basis.

## 8.2 Exposure controls

### Appropriate engineering controls:

Ensure adequate ventilation.

Remove the fumes by means of suitable suction devices.

### 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.

Store protective clothing separately.

Avoid contact with the eyes and skin.

### Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter P3

### Protection of hands:



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### Material of gloves

Nitrile rubber, NBR

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.

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*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  $\leq 6$*

**As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR**

## Eye protection:



*Tightly sealed goggles*

**Body protection:** *Protective work clothing*

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Appearance:

**Form:** *Pasty*  
**Colour:** *Silver grey*  
**Odour:** *Characteristic*  
**Odour threshold:** *Not determined.*

**pH-value at 20 °C:** *4.1*

#### Change in condition

**Initial boiling point and boiling range:** *100 °C*

**Flash point:** *Not applicable.*

**Flammability (solid, gas):** *Not determined.*

**Decomposition temperature:** *Not determined.*

**Auto-ignition temperature:** *Product is not selfigniting.*

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

#### Explosion limits:

**Lower:** *Not determined.*

**Upper:** *Not determined.*

**Vapour pressure at 20 °C:** *23 hPa*

**Density at 20 °C:** *6.19 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:

**Dynamic:** *Not applicable.*

**Kinematic:** *Not applicable.*

#### Solvent content:

**VOC (EC)** *0.00 %*

**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 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.*

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**10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

*Harmful if swallowed or if inhaled.*

#### LD/LC50 values relevant for classification:

##### 7646-85-7 zinc chloride

Oral	LD50	1,100-1,260 mg/kg (rat)
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#### Primary irritant effect:

##### Skin corrosion/irritation

*Causes severe skin burns and eye damage.*

##### Serious eye damage/irritation

*Causes serious eye damage.*

**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

*May damage fertility. May damage the unborn child. May cause harm to breast-fed children.*

#### STOT-single exposure

*May cause respiratory irritation.*

#### STOT-repeated exposure

*Causes damage to organs through prolonged or repeated exposure.*

**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.*

**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 3 (German Regulation) (Self-assessment): extremely hazardous for water*

*Do not allow product to reach ground water, water course or sewage system, even in small quantities.*

*Must not reach sewage water or drainage ditch undiluted or unneutralised.*

*Danger to drinking water if even extremely small quantities leak into the ground.*

*Also poisonous for fish and plankton in water bodies.*

#### 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

#### Recommendation

*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

#### European waste catalogue

*16 05 07\*: discarded inorganic chemicals consisting of or containing hazardous substances*

*HP 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity*

*HP 6: Acute Toxicity*

*HP 8: Corrosive*

*HP 10: Toxic for reproduction*

*HP 14: Ecotoxic*

*cleaned plastic bottle:*

*15 01 02: plastic packaging*

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**Uncleaned packaging:** 15 01 10\*: packaging containing residues of or contaminated by hazardous substances

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

**Recommended cleansing agents:**

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

## SECTION 14: Transport information

### 14.1 UN-Number

ADR, IMDG, IATA

UN2923

### 14.2 UN proper shipping name

ADR

2923 CORROSIVE SOLID, TOXIC, N.O.S. (ZINC CHLORIDE, lead), ENVIRONMENTALLY HAZARDOUS CORROSIVE SOLID, TOXIC, N.O.S. (ZINC CHLORIDE, lead), MARINE POLLUTANT CORROSIVE SOLID, TOXIC, N.O.S. (ZINC CHLORIDE, lead)

IMDG

IATA

### 14.3 Transport hazard class(es)

ADR



Class

8 Corrosive substances.

Label

8+6.1

IMDG



Class

8 Corrosive substances.

Label

8/6.1

IATA



Class

8 Corrosive substances.

Label

8 (6.1)

### 14.4 Packing group

ADR, IMDG, IATA

III

### 14.5 Environmental hazards:

Product contains environmentally hazardous substances: lead, zinc chloride

Marine pollutant:

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

### 14.6 Special precautions for user

Warning: Corrosive substances.

Danger code (Kemler):

86

EMS Number:

F-A,S-B

Segregation groups

Acids

Stowage Category

B

Stowage Code

SW2 Clear of living quarters.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

### Transport/Additional information:

ADR

Limited quantities (LQ)

5 kg

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

Transport category

3

Tunnel restriction code

E

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**IMDG****Limited quantities (LQ)****Excepted quantities (EQ)**

1 kg

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

**UN "Model Regulation":**
 UN 2923 CORROSIVE SOLID, TOXIC, N.O.S. (ZINC  
 CHLORIDE, LEAD), 8 (6.1), III, ENVIRONMENTALLY  
 HAZARDOUS

## 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.***Seveso category E1** *Hazardous to the Aquatic Environment***Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t**REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 30, 63, 65***National regulations:****Information about limitation of use:** *Employment restrictions concerning juveniles must be observed.***Waterhazard class:** *Water hazard class 3 (Self-assessment): extremely hazardous for water.***Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

7439-92-1 | lead

**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.*

**Relevant phrases**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H360FD May damage fertility. May damage the unborn child.

H362 May cause harm to breast-fed children.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**Recommended restriction of use** *For commercial use only.***Contact:** Dr. M. Probst**Abbreviations and acronyms:**

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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*Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Repr. 1A: Reproductive toxicity – Category 1A**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3***Safety data sheet SD3441**

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