

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31 and 2020/878/  
EU**

Printing date 18.07.2024

Version number 9 (replaces version 8)

Revision: 18.07.2024

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

**1.1 Product identifier**

**Trade name:** Silver hard solder, flux-coated

Ag 244 (L-Ag44), Ag 225 (L-Ag25), BCu44ZnAg(Si) (L-Ag20),  
Ag 212 (L-Ag12), Ag 205 (L-Ag5), Ag 272 (L-Ag72)  
Ag 156 (L-Ag55Sn), Ag 145 (L-Ag45Sn), Ag 140 (L-Ag40Sn)  
Ag 134 (L-Ag34Sn), Ag 130 (L-Ag30Sn)

**FELDER**  
seit 1979  
**LÖTTECHNIK**

**UFI:**

Ag205 (L-Ag5): PTUY-E2RM-S00D-6RP4  
Ag212 (L-Ag12): 2A99-S0KN-6009-3C2G  
BCu44ZnAg(Si) (L-Ag20): RVUY-X2F1-200W-U386  
Ag225 (L-Ag25): CYUY-F24E-D00D-HEU8  
Ag130 (L-Ag30Sn): 92VY-X2TT-P00V-5SEA  
Ag134 (L-Ag34Sn): Y7VY-Y26M-900V-GFKF  
Ag140 (L-Ag40Sn): 2AVY-F2W0-M00C-5T5H  
Ag244 (L-Ag44): 2DVY-Y2KD-W00V-T4RK  
Ag145 (L-Ag45Sn): AE00-S312-A004-W64M  
Ag156 (L-Ag55Sn): YGYY-G28T-700C-GGAN  
Ag272 (L-Ag72): DH00-83QF-M00M-KHQP

**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**

*Hard solder*

*Soldering flux*

**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](mailto: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](mailto:mprobst@felder.de)*

**1.4 Emergency telephone number:**

*Tel: +49(0)208/85035-29*

*(Mo-Thu: 08:00-4:00 p.m., Fr: 08:00-1:00 p.m.)*

**EuPCS:** PC-TEC-24

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

 **GHS08 health hazard**

*Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.*

**2.2 Label elements**

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

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

**Hazard pictograms**



**GHS08**

**Signal word** **Warning**

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**Hazard-determining components of labelling:**

potassium metaborate

potassium pentaborate - hydrat

**Hazard statements**

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Labelling of packages where the contents do not exceed 125 ml****Hazard pictograms**

GHS08

**Signal word** Warning**Hazard-determining components of labelling:**

potassium metaborate

potassium pentaborate - hydrat

**Hazard statements**

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

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P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture: consisting of the following components.**Dangerous components:**

CAS: 7440-22-4 EINECS: 231-131-3 Reg.nr.: 01-2119555669-21	silver substance with a Community workplace exposure limit	<65%
CAS: 7440-50-8 EINECS: 231-159-6 Index number: 029-024-00-X Reg.nr.: 01-2119480154-42	copper ☒ Aquatic Chronic 2, H411	<25%
CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9 Reg.nr.: 01-2119467174-37	zinc substance with a Community workplace exposure limit	<25%
CAS: 13709-94-9 EINECS: 237-262-2 Reg.nr.: <1 t/year	potassium metaborate ☒ Repr. 2, H361; ☒ Eye Irrit. 2, H319	<7%

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CAS: 12229-13-9 EINECS: 234-371-7 Reg.nr.: 01-2119970729-20	<p><i>potassium pentaborate - hydrat</i></p> <p>◆ Repr. 2, H361fd Specific concentration limit: Repr. 2; H361fd: C ≥ 5.2 %</p>	<5.2%
CAS: 7789-23-3 EINECS: 232-151-5 Index number: 009-005-00-2 Reg.nr.: < 1t/year	<p><i>potassium fluoride</i></p> <p>◆ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ◆ Eye Dam. 1, H318</p>	<2.5%

**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:** Take affected persons out into the fresh air.

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

#### After skin contact:

Generally the product does not irritate the skin.

After contact with the molten product, cool rapidly with cold water.

Do not pull solidified product off the skin.

Seek medical treatment.

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

**After swallowing:** If symptoms persist consult doctor.

**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 or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture** Hydrogen fluoride (HF)

#### 5.3 Advice for firefighters

##### Protective equipment:

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

## SECTION 6: Accidental release measures

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

Use respiratory protective device against the effects of fumes/dust/aerosol.

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

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

Dispose contaminated material as waste according to section 13.

### 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.

**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:** Do not store together with acids.

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**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

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
<b>7440-22-4 silver</b>	
IOELV (EU)	Long-term value: 0.1 mg/m <sup>3</sup>
AGW (Germany)	Long-term value: 0.1 E mg/m <sup>3</sup> 8(II);DFG, EU
WEL (Great Britain)	Long-term value: 0.1 mg/m <sup>3</sup>
OEL (Ireland)	Long-term value: 0.1 mg/m <sup>3</sup> IOELV
<b>7440-50-8 copper</b>	
MAK (Germany)	Long-term value: 0.01 A mg/m <sup>3</sup> als Cu
WEL (Great Britain)	Short-term value: 2** mg/m <sup>3</sup> Long-term value: 0.2* 1** mg/m <sup>3</sup> *fume **dusts and mists (as Cu)
OEL (Ireland)	Long-term value: 0.2* 1** mg/m <sup>3</sup> *fume **dusts and mists
<b>7440-66-6 zinc</b>	
MAK (Germany)	Long-term value: 0.1A* 2E** mg/m <sup>3</sup> *alveolengängig; **einatembar
<b>7789-23-3 potassium fluoride</b>	
IOELV (EU)	Long-term value: 2.5 mg/m <sup>3</sup> as F
AGW (Germany)	Long-term value: 1 E mg/m <sup>3</sup> 4(II);als Fluor berechnet; EU, DFG, Y, H
WEL (Great Britain)	Long-term value: 2.5 mg/m <sup>3</sup> as F
OEL (Ireland)	Long-term value: 2.5 mg/m <sup>3</sup> as F, IOELV
<b>7440-31-5 tin</b>	
MAK (Germany)	vgl.Abschn.IIb
OEL (Ireland)	Short-term value: 0.2** mg/m <sup>3</sup> Long-term value: 2* 0.1** mg/m <sup>3</sup> IOELV, *metal, oxide, inorg.compds., **org. compds.

### Regulatory information

IOELV (EU): (EU) 2019/1831

AGW (Germany): TRGS 900

WEL (Great Britain): EH40/2020

OEL (Ireland): 2024 CoP for the Safety, Health and Welfare at Work

MAK (Germany): MAK- und BAT-Liste

### recommended monitoring procedures in accordance with 2020/878/EU no. 8.1.2:

7440-50-8 copper: BIA 7755 (D), NIOSH 7301(E), MétroPol Fiche 003(F), MTA/MA-025/A92(ESP)

7440-22-4 silver: ISO 15202(F, E), BIA 8600(D), NIOSH 7301(E)

7440-66-6 zinc: NIOSH 7300, 7301, 7303(E), OSHA ID 121(E)

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<b>Ingredients with biological limit values:</b>	
<b>7789-23-3 potassium fluoride</b>	
<b>BGW (Germany)</b>	<p>7.0 mg/g Kreatinin  <i>Untersuchungsmaterial: Urin</i>  <i>Probennahmezeitpunkt: Expositionsende bzw. Schichtende</i>  <i>Parameter: Fluorid</i></p> <p>4.0 mg/g Kreatinin  <i>Untersuchungsmaterial: Urin</i>  <i>Probennahmezeitpunkt: vor nachfolgender Schicht</i>  <i>Parameter: Fluorid</i></p>

**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.

### Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

#### Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

#### Hand protection



Protective gloves

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

#### Material of gloves

Heat-resistant glove with nitrile palm

Recommended thickness of the material:  $\geq 0.2 \text{ mm}$

#### Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Value for the permeation: Level  $\leq 6$

#### Eye/face protection Safety glasses

#### Body protection: Protective work clothing

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

Odour:

Odourless

Odour threshold:

Not determined.

Boiling point or initial boiling point and boiling range

Undetermined.

Flammability

Not determined.

Lower and upper explosion limit

Not determined.

Lower:

Not determined.

Upper:

Not determined.

Flash point:

Not applicable.

Decomposition temperature:

Not determined.

pH

Not applicable.

Viscosity:

Not applicable.

Kinematic viscosity

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<b>Dynamic:</b>	<i>Not applicable.</i>
<b>Solubility</b>	
<b>water:</b>	<i>Insoluble.</i>
<b>Partition coefficient n-octanol/water (log value)</b>	<i>Not determined.</i>
<b>Vapour pressure:</b>	<i>Not applicable.</i>
<b>Density and/or relative density</b>	
<b>Density:</b>	<i>Not determined.</i>
<b>Relative density</b>	<i>Not determined.</i>
<b>Vapour density</b>	<i>Not applicable.</i>
<b>Particle characteristics</b>	
<b>See section 3.</b>	

**9.2 Other information****Appearance:****Form:** *Solid***Important information on protection of health and environment, and on safety.****Ignition temperature:***Product is not selfigniting.***Explosive properties:***Product does not present an explosion hazard.***Solvent content:****Organic solvents:**

0.0 %

**Change in condition****Evaporation rate***Not applicable.***Information with regard to physical hazard classes**

<b>Explosives</b>	<i>Void</i>
<b>Flammable gases</b>	<i>Void</i>
<b>Aerosols</b>	<i>Void</i>
<b>Oxidising gases</b>	<i>Void</i>
<b>Gases under pressure</b>	<i>Void</i>
<b>Flammable liquids</b>	<i>Void</i>
<b>Flammable solids</b>	<i>Void</i>
<b>Self-reactive substances and mixtures</b>	<i>Void</i>
<b>Pyrophoric liquids</b>	<i>Void</i>
<b>Pyrophoric solids</b>	<i>Void</i>
<b>Self-heating substances and mixtures</b>	<i>Void</i>
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	<i>Void</i>
<b>Oxidising liquids</b>	<i>Void</i>
<b>Oxidising solids</b>	<i>Void</i>
<b>Organic peroxides</b>	<i>Void</i>
<b>Corrosive to metals</b>	<i>Void</i>
<b>Desensitised explosives</b>	<i>Void</i>

**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.***10.6 Hazardous decomposition products:** *No dangerous decomposition products known.***SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** *Based on available data, the classification criteria are not met.*

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LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	10,814 mg/kg (rat)
Dermal	LD50	13,242 mg/kg
Inhalative	LC50/4 h	22.1 mg/l

**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.**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***Suspected of damaging fertility. Suspected of damaging the unborn child.***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.**11.2 Information on other hazards****Endocrine disrupting properties***None of the ingredients is listed.***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.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties***The product does not contain substances with endocrine disrupting properties.***12.7 Other adverse effects****Additional ecological information:****General notes:***Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water**Do not allow product to reach ground water, water course or sewage system.**Danger to drinking water if even small quantities leak into the ground.***SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation** Contact manufacturer for recycling information.**European waste catalogue**

06 03 14: solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

HP 10: Toxic for reproduction

17 04 07: mixed metals

**Innenverpackung/Umverpackung aus Plastik:**

15 01 02: plastic packaging

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

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09.06.2023: section 15

18.07.2024: section 1, 3, 12

**Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:****Relevant phrases**

H301 *Toxic if swallowed.*  
 H311 *Toxic in contact with skin.*  
 H318 *Causes serious eye damage.*  
 H319 *Causes serious eye irritation.*  
 H331 *Toxic if inhaled.*  
 H361 *Suspected of damaging fertility or the unborn child.*  
 H361fd *Suspected of damaging fertility. Suspected of damaging the unborn child.*  
 H411 *Toxic to aquatic life with long lasting effects.*

**Contact:** Dr. M. Probst**Version number of previous version: 8****Abbreviations and acronyms:**

ADR: *Accord relatif au transport international 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)*  
 LC50: *Lethal concentration, 50 percent*  
 LD50: *Lethal dose, 50 percent*  
 PBT: *Persistent, Bioaccumulative and Toxic*  
 vPvB: *very Persistent and very Bioaccumulative*  
 ATE: *Acute toxicity estimate values*  
 Acute Tox. 3: *Acute toxicity – Category 3*  
 Eye Dam. 1: *Serious eye damage/eye irritation – Category 1*  
 Eye Irrit. 2: *Serious eye damage/eye irritation – Category 2*  
 Repr. 2: *Reproductive toxicity – Category 2*  
 Repr. 2: *Reproductive toxicity – Category 2*  
 Aquatic Chronic 2: *Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

**Safety data sheet SD3358**

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