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

Printing date 04.06.2025 *Version number 10 (replaces version 9)* *Revision: 22.05.2025*

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

1.1 Product identifier
Trade name: Silver brazing alloy - 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)

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): YGVY-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
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-hour emergency information:
Giftnotruf Berlin, counselling in German and English
Phone: (030) 30686 700
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.


GHS07

Eye Irrit. 2 H319 Causes serious eye 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

GHS07 GHS08

Signal word *Warning*

Hazard-determining components of labelling:
potassium metaborate
potassium pentaborate - hydrat
Hazard statements
H319 Causes serious eye irritation.
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.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 If eye irritation persists: 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

GHS07 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.
P102 Keep out of reach of children.
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.
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.*

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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 Acute 1, H400; Aquatic Chronic 1, H410*	*<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%*
CAS: 12229-13-9 *EINECS: 234-371-7* *Reg.nr.: 01-2119970729-20*	*potassium pentaborate - hydrat* *Repr. 2, H361fd*	*<5.2%*
CAS: 7789-23-3 *EINECS: 232-151-5* *Index number: 009-005-00-2* *Reg.nr.: < 1t/year*	*potassium fluoride* *Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331* *Eye Dam. 1, H318*	*<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:
CO2, 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.*

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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.*
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:	
7440-22-4 silver	
IOELV (EU)	*Long-term value: 0.1 mg/m³*
WES (Australia)	*Long-term value: 0.1 mg/m³*
AGW (Germany)	*Long-term value: 0.1 E mg/m³* *8(II);DFG, EU*
WEL (Great Britain)	*Long-term value: 0.1 mg/m³*
OEL (Ireland)	*Long-term value: 0.1 mg/m³* *IOELV*
7440-50-8 copper	
WES (Australia)	*Long-term value: 1* 0.2** mg/m³* **dust & mists (as Cu) **fume*
AGW (Germany)	*Long-term value: 0.045 (A) 0.200 (E) mg/m³* *8 (II) (A) 4 (II) (E);AGS, 10, als Cu*
WEL (Great Britain)	*Short-term value: 2** mg/m³* *Long-term value: 0.2* 1** mg/m³* **fume **dusts and mists (as Cu)*
OEL (Ireland)	*Long-term value: 0.2* 1** mg/m³* **fume **dusts and mists*
7440-66-6 zinc	
MAK (Germany)	*Long-term value: 0.1A* 2E** mg/m³* **alveolengängig; **einatembar*
7789-23-3 potassium fluoride	
IOELV (EU)	*Long-term value: 2.5 mg/m³* *as F*
WES (Australia)	*Long-term value: 2.5 mg/m³* *as F*
AGW (Germany)	*Long-term value: 1 E mg/m³* *4(II);als Fluor berechnet; EU, DFG, Y, H*
WEL (Great Britain)	*Long-term value: 2.5 mg/m³* *as F*

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OEL (Ireland)	*Long-term value: 2.5 mg/m³* *as F, IOELV*
7440-31-5 tin	
WES (Australia)	*Long-term value: 2 mg/m³*
MAK (Germany)	*vgl.Abschn.IIb*
OEL (Ireland)	*Short-term value: 0.2** mg/m³* *Long-term value: 2* 0.1** mg/m³* *IOELV,*metal, oxide, inorg.compds.,**org. compds.*

Regulatory information
IOELV (EU): (EU) 2019/1831
WES (Australia): Workplace exposure standards for airborne contaminants
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)
7440-31-5 tin: NIOSH 7300, 7301, 7303(E), OSHA ID-121, ISO15202(E,F), MTA/MA-025/A92(ESP)

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

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: ≥ 0.2 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.

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Value for the permeation: Level ≤ 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	
Lower:	*Not determined.*
Upper:	*Not determined.*
Flash point:	*Not applicable.*
Decomposition temperature:	*Not determined.*
pH	*Not applicable.*
Viscosity:	
Kinematic viscosity	*Not applicable.*
Dynamic:	*Not applicable.*
Solubility	
water:	*Insoluble.*
Partition coefficient n-octanol/water (log value)	*Not determined.*
Vapour pressure:	*Not applicable.*
Density and/or relative density	
Density:	*Not determined.*
Relative density	*Not determined.*
Vapour density	*Not applicable.*
Particle characteristics	*See section 3.*

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	
Explosives	*Void*
Flammable gases	*Void*
Aerosols	*Void*
Oxidising gases	*Void*
Gases under pressure	*Void*
Flammable liquids	*Void*
Flammable solids	*Void*
Self-reactive substances and mixtures	*Void*
Pyrophoric liquids	*Void*
Pyrophoric solids	*Void*
Self-heating substances and mixtures	*Void*
Substances and mixtures, which emit flammable gases in contact with water	*Void*
Oxidising liquids	*Void*
Oxidising solids	*Void*

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Organic peroxides	*Void*
Corrosive to metals	*Void*
Desensitised explosives	*Void*

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.*

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	*LD50*	*10,814 mg/kg (rat)*
Inhalative	*LC50/4 h*	*44.1 mg/l (rat)*

Primary irritant effect:
Skin corrosion/irritation *Based on available data, the classification criteria are not met.*
Serious eye damage/irritation
Causes serious eye irritation.
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.*
chronic aquatic toxicity:
Classification conditions Copper (029-024-00-X) Environmental hazard not fulfilled.
Classification conditions Copper (029-026-00-0) specific surface area < 0,67 mm²/mg.
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.

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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.*

SECTION 14: Transport information

14.1 UN number or ID 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:	
Marine pollutant:	*No*
14.6 Special precautions for user	*Not applicable.*
14.7 Maritime transport in bulk according to IMO instruments	*Not applicable.*
UN "Model Regulation":	*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 (EU) 2019/1021 on persistent organic pollutants (POP) *None of the ingredients are included.*

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

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Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:

Information about limitation of use: *Employment restrictions concerning juveniles must be observed.*
Waterhazard class: *Water hazard class 2 (Self-assessment): 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:
12.08.2018: adaption to regulation 453/2010/EC, 830/2015/EU, 2012/18/EU
11.07.2017: section 1.2, 16
12.09.2018: section 2, 13
04.09.2019: section 1 UFI
20.01.2020: section 1 UFI
07.09.2021: section 1, 3, 15, 16
09.06.2023: section 15
18.07.2024: section 1, 3, 12
22.05.2025: section 1, 2, 8, 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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
Contact: *Dr. M. Probst*
Version number of previous version: *9*
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 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
Safety data sheet *SD3358*