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

Printing date 09.07.2025 *Version number 7 (replaces version 6)* *Revision: 20.02.2025*

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

1.1 Product identifier
Trade name: soft solder alloy leaded SnPb(Cu)(Ag)
Sn60Pb39Cu1, Sn60Pb38Cu2,
Sn60Pb36Ag4, Sn62Pb36Ag2

UFI:
Sn60Pb39Cu1: 3WJ9-D0MA-T00S-8GAX
Sn60Pb38Cu2: TXR2-V3GF-D001-R6HV
Sn60Pb36Ag4: 51S2-D35U-P00H-EJ3X
Sn62Pb36Ag2: D4S2-V3V8-0000-2VQ0

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 *Brazing alloy*

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. 1A	*H360FD*	*May damage fertility. May damage the unborn child.*
Lact.	*H362*	*May cause harm to breast-fed children.*
STOT RE 1	*H372*	*Causes damage to organs through prolonged or repeated exposure.*

GHS09 environment

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

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 GHS09

Signal word *Danger*

Hazard-determining components of labelling:
lead

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Hazard statements
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.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P263 Avoid contact during pregnancy and while nursing.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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 Mixtures
Description: *Mixture: consisting of the following components.*

Dangerous components:		
CAS: 7439-92-1 *EINECS: 231-100-4* *Index number: 082-014-00-7* *Reg.nr.: 01-2119513221-59*	*lead* *Repr. 1A, H360FD; Lact., H362; STOT RE 1, H372* *Aquatic Chronic 1, H410 (M=10)*	*33-44%*
CAS: 7440-22-4 *EINECS: 231-131-3* *Reg.nr.: 01-2119555669-21*	*silver* *substance with a Community workplace exposure limit*	*<4%*
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*	*<2%*

SVHC	
7439-92-1	*lead*

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:
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:
Induce vomiting and call for medical help.
Rinse out mouth and then drink plenty of water.
Seek medical treatment.
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.

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SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Use fire extinguishing methods suitable to surrounding conditions.
CO2, powder or water spray. Fight larger fires with water spray.
For safety reasons unsuitable extinguishing agents: *Water with full jet*
5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters
Protective equipment: *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.
Wear protective clothing.
6.2 Environmental precautions: *Do not allow product to reach sewage system or any water course.*
6.3 Methods and material for containment and cleaning up:
Allow to solidify. Pick up mechanically.
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
Extractors are required on all machines used for thermal processing or splinter removal processes.
Provide suction extractors if dust is formed.
Any unavoidabledeposit of dust must be regularly removed.
Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.
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.
Do not store together with oxidising and acidic materials.
Further information about storage conditions:
Store in dry conditions.
Store under lock and key and with access restricted to technical experts or their assistants only.
Storage class: *6.1 D*
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:	
7440-31-5 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.*

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7439-92-1 lead	
AGW (EU)	*Long-term value: 0.15 mg/m³*
BOELV (EU)	*Long-term value: 0.15 mg/m³* *as Pb*
WES (Australia)	*Long-term value: 0.05 mg/m³*
MAK (Germany)	*Long-term value: 0.004E mg/m³* *vgl.Abschn.XII*
OEL (Ireland)	*Long-term value: 0.15 mg/m³* *Repr1A, BOELV*
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*
MAK (Germany)	*Long-term value: 0.01 A mg/m³* *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*

Regulatory information
WES (Australia): Workplace exposure standards for airborne contaminants
MAK (Germany): MAK- und BAT-Liste
OEL (Ireland): 2024 CoP for the Safety, Health and Welfare at Work
BOELV (EU): EU 2022/431
IOELV (EU): (EU) 2019/1831
AGW (Germany): TRGS 900
WEL (Great Britain): EH40/2020
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)

Ingredients with biological limit values:	
7439-92-1 lead	
BAT (EU)	*70 µg/dl* *blood* *lead*
BGW (Germany)	*150 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.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Pregnant women should strictly avoid inhalation or skin contact.
Do not eat, drink, smoke or sniff while working.

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Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Respiratory protection:
Use suitable respiratory protective device in case of insufficient ventilation.
Filter P3
Hand protection
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
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
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: ≥ 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 16523-1:2015 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 ≤ 6
Eye/face protection *in cases of application: protective goggles*
Body protection: *Protective work clothing*

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Colour:	*Silver grey*
Odour:	*Odourless*
Odour threshold:	*Not determined.*
Boiling point or initial boiling point and boiling range	*1,740 °C*
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 at 20 °C:	*6.49 g/cm³*
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:	
VOC (EC)	*0.00 %*

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Solids content:	*100.0 %*
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*
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 and stored according to specifications.
10.3 Possibility of hazardous reactions
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and alkali.
Reacts with strong 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:
Toxic metal oxide smoke
Leadoxide vapour

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.*
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.*
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 *Based on available data, the classification criteria are not met.*
STOT-repeated exposure
Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard *Based on available data, the classification criteria are not met.*

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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.
12.7 Other adverse effects
Additional ecological information:
General notes:
Due to the consistence and the low watersolubility of the product a bioavailability is not probable.
The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary
Not hazardous for water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Contact manufacturer for recycling information.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
European waste catalogue
17 04 09: metal waste contaminated with hazardous substances*
HP 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 10: Toxic for reproduction

coil:
15 01 02: plastic packaging
overpack:
15 01 01: paper and cardboard packaging
Uncleaned packaging: *void.*
Recommendation: *Disposal must be made according to official regulations.*

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA *UN3077*
14.2 UN proper shipping name
ADR *UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (LEAD)*
IMDG, IATA *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead, copper)*

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14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class	*9 Miscellaneous dangerous substances and articles.*
Label	*9*
14.4 Packing group	
ADR, IMDG, IATA	*III*
14.5 Environmental hazards:	
Marine pollutant:	*No* *Symbol (fish and tree)*
Special marking (ADR):	*Symbol (fish and tree)*
Special marking (IATA):	*Symbol (fish and tree)*
14.6 Special precautions for user	*Warning: Miscellaneous dangerous substances and articles.*
Hazard identification number (Kemler code):	*90*
EMS Number:	*F-A,S-F*
Stowage Category	*A*
Stowage Code	*SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.*
14.7 Maritime transport in bulk according to IMO instruments	*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	*(-)*
Remarks:	*Special regulation SV 375 (not subject to ADR, if inner packaging maximum 5kg/5liter)*

IMDG	
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*
UN "Model Regulation":	*UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (LEAD), 9, III*

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 (EU) 2019/1021 on persistent organic pollutants (POP) *None of the ingredients are included.*
REGULATION (EC) No 1907/2006 ANNEX XVII *Conditions of restriction: 63, 30*

Regulation (EU) No 649/2012		
7439-92-1	*lead*	*Unterkategorie: i(2); Beschränkung: sr*

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II	
7439-92-1	*lead*

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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.

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:
Additional classification according to Decree on Hazardous Materials, Annex II:
Can cause cancer if present as respirable dust.

Information about limitation of use:
Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning women of child-bearing age must be observed.
Employment restrictions concerning juveniles must be observed.
Waterhazard class: *Generally not 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.

Reasons for changes:
03.07.2018: section 3, 15 SVHC
06.02.2020: section 1
12.05.2021: section 1, 3, 15, 16
25.08.2022: section 8, 15
22.03.2024: section 8
20.02.2025: section 1, 2, 3, 12, 14, 16 (21. ATP)
Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:

Relevant phrases
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.
Recommended restriction of use *For commercial users only*
Contact: *Dr. M. Probst*
Version number of previous version: *6*
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)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Repr. 1A: Reproductive toxicity – Category 1A
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Safety data sheet *SD3458*