FELDER

LÖTTECHNIK

# Safety data sheet

# according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 30.04.2021 Version number 8 Revision: 22.01.2021

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

### 1.1 Product identifier

Trade name: ISO-CORE "CLEAR", bleifrei (lead-free) Sn100Ni+, Sn100-403C, Sn99Ag+,

Sn98Ag+, Sn96Ag+, Sn95Ag+ Sn97Ag3, Sn96,5Ag3,5, Sn95Ag5

Sn97Cu3, Sn99,3Cu0,7,

Sn96,5Ag3Cu0,5, Sn95,5Ag3,8Cu0,7

# 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 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: Tel: +49 (0)208 8503529

EuPCS: PC-TEC-24

# **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.

The product is not classified, according to the CLP regu

### 2.2 Label elements

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

Hazard pictograms Void

Signal word Void

Hazard statements Void

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: 7440-31-5 EINECS: 231-141-8 Reg.nr.: 01-2119486474-28	tin	substance with a Community workplace exposure limit	50-100%
CAS: 7440-22-4 EINECS: 231-131-3 Reg.nr.: 01-2119555669-21	silver	substance with a Community workplace exposure limit	<5%
CAS: 7440-50-8 EINECS: 231-159-6 Index number: 029-024-00-X Reg.nr.: 01-2119480154-42	copper	4 Aquatic Chronic 2, H411	<5%

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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: Call a doctor immediately.

After swallowing:

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.

# **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.

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 Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Allow to solidify. 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* **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.

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# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Ingredients with lir	Ingredients with limit values that require monitoring at the workplace:		
7440-31-5 tin			
MAK (Germany)	vgl.Abschn.llb		
OEL (Ireland)	Short-term value: 0.2** mg/m³ Long-term value: 2* 0.1** mg/m³ IOELV, *metal, oxide, inorg.compds., **org. compds.		
7440-22-4 silver			
IOELV (EU)	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			
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

MAK (Germany): MAK- und BAT-Liste

OEL (Ireland): 2020 CoP for the Safety, Health and Welfare at Work

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)

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.

### Appropriate engineering controls:

Ensure adequate ventilation.

Remove the soldering fumes by suitable suction devices.

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

General protective and hygienic measures: Do not eat, drink, smoke or sniff while working.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter P2

Hand protection Heat resistant gloves

Penetration time of glove material Value for the permeation: Level ≤ -

**Eye/face protection** Safety glasses **Body protection**: Protective work clothing

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# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

**General Information** 

Physical state

Colour:

Odour:

Odourless

Odour threshold:

Melting point/freezing point:

Boiling point or initial boiling point and boiling range
Flammability

Not determined.

Not determined.

Not determined.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined. pH Not applicable.

Viscosity:

Kinematic viscosity

Dynamic:

Not applicable.

Not applicable.

Solubility water:

water:Insoluble.Partition coefficient n-octanol/water (log value)Not determined.Vapour pressure:Not applicable.

Density and/or relative density

Density:Not applicableRelative densityNot determined.Vapour densityNot applicable.Particle characteristicsSee item 3.

9.2 Other information

Appearance:

Form: Solid

Important information on protection of health and

environment, and on safety.

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

Void

Void

Solvent content:

**Oxidising liquids** 

Oxidising solids

Organic solvents: 0.0 %
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

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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 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: Possible in traces.

# **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.

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 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.

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** For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Additional ecological information:

General notes:

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary

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.

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

Recommendation Contact manufacturer for recycling information.

European waste catalogue

17 04 07: mixed metals

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spool:

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, 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

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.

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.

# 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:

31.08.2015: matching section 1, 8, 15 to Regulations 453/2010/EC, 830/2015/EU, 2012/18/EU

17.09.2015: addition section 8.2.1 25.02.2016: section 1: Sn100C 28.08.2016: section 1: Sn95Ag5

05.04.2018: section 13 17.10.2019: section 1

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22:01:2021. section 1, 3, 8, 15, 16

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

### Relevant phrases

H411 Toxic to aquatic life with long lasting effects.

Contact: Dr. M. Probst

Version number of previous version: 7

### 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) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Safety data sheet SD3128

EU —