

# Safety data sheet

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

Printing date 16.06.2021

Version number 6

Revision: 16.06.2021

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

**1.1 Product identifier****Trade name:** ISO-Core "EL", bleifrei NiGeSn100Ni+, Sn100-403CSn99Ag+, Sn98Ag+,Sn96Ag+, Sn95Ag+

UFI: not applicable.

**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:** Not necessary, due to the fact that the product does not need to be labelled.**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.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Additional information:**

Contains Rosin. May produce an allergic reaction.

**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: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7 Reg.nr.: 01-2119480418-32	Rosin	⚠ Skin Sens. 1, H317	<1%
CAS: 7440-22-4 EINECS: 231-131-3 Reg.nr.: 01-2119555669-21	silver	substance with a Community workplace exposure limit	<5%

**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:** 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.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** Rinse out mouth and then drink plenty of water.

**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.

**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.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### 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 measures required.

**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:** None.

**Storage class:** 12

**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**

MAK (Germany) vgl. Abschn. IIb

**7440-22-4 silver**

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

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**Regulatory information MAK (Germany):** MAK- und BAT-Liste  
 recommended monitoring procedures in accordance with 2020/878/EU no. 8.1.2:  
 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.

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

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

#### Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter P2

**Hand protection** Not required.

**Material of gloves** Recommended thickness of the material:  $\geq$  - mm

**Eyeface 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

Colour:	Silver grey
Odour:	Odourless
Odour threshold:	Not determined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
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 determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.

### 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.

#### Solvent content:

Organic solvents: 0.0 %

VOC (EC) 0.00 %

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives Void

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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 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.*  
**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.*

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**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

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

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.

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.

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**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:**

22.09.2015: chapter 1, 8 adaption to Regulation 453/2010/EC, 830/2015/EU, 18/2012/EU

10.05.2017: chapter 1, 13

05.04.2019: chapter 1

26.01.2021: chapter 1, 3, 15, 16

16.06.2021: chapter 15

**Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:****Relevant phrases***H317 May cause an allergic skin reaction.***Contact:** *Dr. M. Probst***Version number of previous version:** 5**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**vPvB: very Persistent and very Bioaccumulative**Skin Sens. 1: Skin sensitisation – Category 1***Safety data sheet SD3234**

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