LÖTTECHNIK

Safety data sheet

according to 1907/2006/EC, Article 31 and 453/2010/EC

Version number 2 Revision: 15.10.2019 Printing date 15.10.2019

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

1.1 Product identifier

Trade name: ISO-Core "Ultra Clear" leadfree

ISO-Core "Ultra Clear" bleifrei 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.

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:

(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.

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

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: 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	0-<5%
CAS: 7440-50-8 EINECS: 231-159-6 Reg.nr.: 01-2119480154-42	copper	substance with a Community workplace exposure limit	0-<1%

further ingredients: Harze (nicht eingestuft)

Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 15.10.2019 Version number 2 Revision: 15.10.2019

Trade name: ISO-Core "Ultra Clear" leadfree

ISO-Core "Ultra Clear" bleifrei Sn100Ni+, Sn100-403C, Sn99Ag+ Sn98Ag+, Sn96Ag+, Sn95Ag+ Sn97Ag3, Sn96,5Ag3,5, Sn95Ag5

Sn97Cu3, Sn99,3Cu0,7,

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

(Contd. of page 1)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air, consult doctor in case of complaints. **After skin contact:** Generally the product does not irritate the skin.

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: Use fire extinguishing methods suitable to surrounding conditions.

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 Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: 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 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: 13

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:		
7440-31-5 tin		
MAK (Germany)	vgl.Abschn.llb	
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	

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 15.10.2019 Version number 2 Revision: 15.10.2019

Trade name: ISO-Core "Ultra Clear" leadfree

ISO-Core "Ultra Clear" bleifrei Sn100Ni+, Sn100-403C, Sn99Ag+ Sn98Ag+, Sn96Ag+, Sn95Ag+ Sn97Ag3, Sn96,5Ag3,5, Sn95Ag5

Sn97Cu3, Sn99,3Cu0,7,

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

(Contd. of page 2)

7440-50-8 copper

MAK (Germany) Long-term value: 0.01 A mg/m³

Regulatory information

MAK (Germany): MAK- und BAT-Liste IOELV (EU): (EU) 2017/164 AGW (Germany): TRGS 900

recommended monitoring procedures in accordance with 453/2010/EU no. 8.1.2:

7440-50-8 cupper: 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.

Personal protective equipment:

General protective and hygienic measures:

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

Respiratory protection: *Not required.* Protection of hands: *Not required.*

Material of gloves

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: ≥ 0.3 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 374 part III 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

As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

Eye protection: Not required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid

Odour: Characteristic
Odour threshold: Not determined.
pH-value: Not applicable.

Change in condition

Initial boiling point and boiling range: Undetermined.
Flash point: Not applicable.
Flammability (solid, gas): Not determined.
Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.
Upper: Not determined.
Vapour pressure: Not applicable.
Density: Not determined.
Relative density Not determined.
Vapour density Not applicable.
Evaporation rate Not applicable.

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 15.10.2019 Version number 2 Revision: 15.10.2019

Trade name: ISO-Core "Ultra Clear" leadfree

ISO-Core "Ultra Clear" bleifrei Sn100Ni+, Sn100-403C, Sn99Ag+ Sn98Ag+, Sn96Ag+, Sn95Ag+ Sn97Ag3, Sn96,5Ag3,5, Sn95Ag5

Sn97Cu3, Sn99,3Cu0,7,

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

(Contd. of page 3)

Solubility in / Miscibility with

water: Insoluble.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic: Not applicable. Kinematic: Not applicable.

Solvent content:

Solids content: 100.0 %

9.2 Other informationNo further relevant information available.

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 toxicological effects

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.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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.

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.

Additional ecological information:

General notes:

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.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 15.10.2019 Version number 2 Revision: 15.10.2019

Trade name: ISO-Core "Ultra Clear" leadfree

ISO-Core "Ultra Clear" bleifrei Sn100Ni+, Sn100-403C, Sn99Ag+ Sn98Ag+, Sn96Ag+, Sn95Ag+ Sn97Ag3, Sn96,5Ag3,5, Sn95Ag5

Sn97Cu3, Sn99,3Cu0,7

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

(Contd. of page 4)

European waste catalogue

17 04 07: mixed metals

spools

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

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: Not applicable. 14.6 Special precautions for user Not applicable.

14.7 Transport in bulk according to Annex II of Marpol

and the IBC Code 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.

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: 15.10.2019: section 1

Contact: Dr. M. Probst Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

Safety data sheet SD3496