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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.03.2023

Version number 1.5 (replaces version 1.4)

Revision: 13.03.2023

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

· 1.1 Product identifier

· Trade name: Loetdraht S321 TSC

Loetdraht S321 TSC305

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Technical function soldering
- Application of the substance / the mixture Brazing alloy

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Stannol GmbH & Co. KG Haberstrasse 24 D-42551 Velbert

+49 (0) 2051 3120 332 sdb@stannol.de

• Further information obtainable from: Product Safety Department • 1.4 Emergency telephone number:

8:00 am - 5:00 pm (CET) +49 (0) 2051 3120 332

National Poisons Information Service +44 121 507 4123

Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

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 GB CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Does not meet labeling criteria
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- Additional information:

EUH210 Safety data sheet available on request.

- · 2.3 Other hazards
- Solder wires / solder pastes:

Inhalation of vapors released during the soldering process should be avoided. Flux vapors irritate the nose, throat, and respiratory tract, and can lead to allergic reactions (asthma) after prolonged or repeated contact. Therefore, an active suction is recommended.

After working with the product and before eating, drinking or smoking, wash your hands with soap and water.

Do not heat above 500 °C.

Keep out of the reach of children.

Results of PBT and vPvB assessment

· PBT: Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 \cdot **Description:** Mixture of substances listed below with nonhazardous additions.



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· Dangerous components:			
CAS: 7440-22-4 EINECS: 231-131-3	silver	substance with a Community workplace exposure limit	2 - 9%
CAS: 56-81-5 EINECS: 200-289-5	glycerol	substance with a Community workplace exposure limit	≤ 2.5%
CAS: 7440-50-8 EINECS: 231-159-6	Copper, solid	substance with a Community workplace exposure limit	≤ 1%

• 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
- 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

Ensure adequate ventilation

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:
- 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

- \cdot 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: Not required.
- · Further information about storage conditions: None.

· Storage class: 12



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· 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:

CAS: 7440-22-4 silver

WEL (Great Britain) Long-term value: 0.1 mg/m³

IOELV (EU) Long-term value: 0.1 mg/m³

CAS: 56-81-5 alvcerol

WEL (Great Britain) Long-term value: 10 mg/m³

CAS: 7440-50-8 Copper, solid

WEL (Great Britain) Short-term value: 2** mg/m3 Long-term value: 0.2* 1** mg/m³ *fume **dusts and mists (as Cu)

· Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as personal protective equipment

- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

Hand protection



Protective gloves

Rubber gloves Synthetic rubber gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation 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 can not be calculated in advance and has therefore to be checked prior to the application.

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.

· Eye/face protection Safety glasses

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

· Physical state

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· Colour:	Grey
· Odour:	Odourless
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· 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:	Wire
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:	1.0 %
· VOC (EC)	0.00 %
· Solids content:	98.0 %
· Change in condition	
· Evaporation rate	Not determined.
 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



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· Desensitised explosives

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Void

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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 The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · 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.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

reactivity



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· Uncleaned packaging:

• Recommendation: Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information		
 14.1 UN number or ID number ADR, ADN, IMDG, IATA 	not regulated	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	not regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards:	Not applicable.	
 14.6 Special precautions for user 	Not applicable.	
 14.7 Maritime transport in bulk according to IMC instruments) Not applicable.	
· UN "Model Regulation":	not regulated	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• 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.

· Department issuing SDS: Product Safety Department

· Contact: Hr. Dörr

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