

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

1.1 Product identifier

Trade name : Loetdraht Kristall 400 Ecoloy TC
Loetdraht Kristall 400 Sn99,3Cu0,7
Loetdraht Kristall 400 Flowtin TC

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

Premier Farnell
150 Armley Road
Leeds LS12 2QQ
Tel. : +44 (0) 8701 202530

Emergency telephone number

+44 1865 407333

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

Does not meet labeling criteria

Hazard pictograms : Void
Signal word : Void
Hazard statements : Void

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

3.1 Mixtures

Description : Mixture of substances listed below with nonhazardous additions.
Dangerous components : Void
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	: 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.
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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.
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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:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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 good ventilation/exhaustion at the workplace.

Information about fire - and explosion

protection	: No special measures required.
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7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and

receptacles	: No special requirements.
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Information about storage in one common storage facility : Not required.
Further information about storage conditions : None.
Storage class : 11

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

8.2 Exposure controls

Appropriate engineering controls

No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures : Immediately remove all soiled and contaminated clothing
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

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 : Solid
Colour : Grey
Odour : Odourless
Odour threshold : Not determined.
Melting point/freezing point : Undetermined.
Boiling point or initial boiling point and boiling range : Undetermined.

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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	: Not determined.
Relative density	: Not determined.
Vapour density	: Not applicable.
Particle characteristics	: See section 3.
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:	
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

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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.

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 : May cause an allergic skin reaction.

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.

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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

Smaller quantities can be disposed of with household waste.

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 IMO 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.

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.

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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.

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.

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

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