

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

1.1. Product identifier

Trade name: Löt draht Kristall 511 Ecoloy 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) 870 129 8608

1.4. Emergency telephone number

+44 (0) 870 202530

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

Inhalation of vapors that are released during the soldering process should be avoided. Flux fumes will irritate nose, throat and lungs and may cause allergic reaction (asthma) after prolonged or repeated exposure. Therefore, we recommend the usage of fume extractions with appropriate filters.

Always wash your hands carefully with soap and water after handling the product before eating, drinking and smoking. Do not heat the soldering materials above 500°C.

Keep out of 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.

Safety Data Sheet



Dangerous components:

CAS: 7440-31-5 tin 80-100%
EINECS: 231-141-8
CAS: 7440-50-8 copper substance with a Community workplace exposure limit $\leq 2.5\%$
EINECS: 231-159-6

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.

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

No special measures required.

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.

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: CAS: 7440-50-8 copper

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

Personal protective equipment : -

General protective and hygienic measures : The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection : Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands : Rubber gloves
Synthetic rubber gloves
To avoid skin problems reduce the wearing of gloves to the required minimum.

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 exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	: Safety glasses

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form	: Rope
Colour	: Grey
Odour	: Characteristic
Odour threshold	: Not determined.
pH-value	: Not applicable.
Change in condition	
Melting point/freezing point	: Undetermined.
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.
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 information

No 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 (carcinogenicity, 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: Generally not hazardous for water

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.

Uncleaned packaging:

Recommendation : Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1. UN-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. Transport in bulk according to Annex II of Marpol and the IBC Code

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

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.

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) VOC: Volatile Organic Compounds (USA, EU)

PBT : Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Part Number

509-0593

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