

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

1.1. Relevant identified uses of the substance or mixture and uses advised against

Technical function	Soldering
Application of the substance / the mixture	Brazing alloy

1.2. Details of the supplier of the safety data sheet

Manufacturer/Supplier	Premier Farnell plc 150 Armley Road Leeds LS12 2QQ +44 (0) 870 129 8608
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1.3. Emergency telephone number

+49 69 222 25285

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 labelling 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.
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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	CAS: 7440-50-8 Copper, solid substance with a Community workplace exposure limit 0.2 - 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

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

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 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

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

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.

Filter A/P2

Protection of hands



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 protection Safety glasses

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Physical state	Rope
Colour	Grey
Odour	Odourless
Odour threshold	Not determined.
Melting point/freezing point	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
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.

9.2. Other information

Appearance:

Form Wire

Important information on protection of health and environment, and on safety.

Auto-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

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.
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 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.

Safety Data Sheet



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.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

Part Number

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