

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

### 1.1 Product identifier

Solder Wire

### 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 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

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

### 3.1 Mixtures

Description : Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 7440-22-4 silver substance with a Community workplace exposure limit 0.2 - 5%

EINECS: 231-131-3

# Safety Data Sheet



CAS: 7440-50-8      Copper, solid      substance with a Community workplace exposure limit  $\leq 1\%$

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

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 precautions are necessary if used correctly.

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.

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

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: 7440-22-4 silver

WEL (Great Britain) Long-term value: 0.1mg/m<sup>3</sup>

IOELV (EU) Long-term value: 0.1mg/m<sup>3</sup>

#### CAS: 7440-50-8 copper

WEL (Great Britain) Short-term value: 2\*\* mg/m<sup>3</sup>

Long-term value: 0.2\* 1\*\* mg/m<sup>3</sup>

\*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:

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

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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	: Characteristic
Odour threshold	: Not determined.
Melting point/freezing point	: Undetermined.
Boiling point or initial boiling point and boiling range	: Undetermined.
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.

#### 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.
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.
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.

## 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.

#### 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

# Safety Data Sheet



## 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

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.

### 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

<b>Part Number</b>
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