



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 24-Jun-21

Revision Date 24-Jun-21

Revision Number 1

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

### 1.1. Product identifier

Product Code(s) 27722

Product Name Silver solder easy

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

Recommended use Jewellery / Industrial

Uses advised against Use only for intended applications

### 1.3. Details of the supplier of the safety data sheet

#### **Supplier**

Cookson Precious Metals Ltd  
59-83 Vittoria Street  
Birmingham  
B1 3NZ  
United Kingdom  
+44 (0) 121 200 2120

#### **For further information, please contact**

E-mail address [info@cooksongold.com](mailto:info@cooksongold.com)

### 1.4. Emergency telephone number

Emergency Telephone +44 (0)121 200 2120  
(Monday - Friday 08:00-20:00, Saturday - Sunday 10:00-16:00)

Europe 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 2.2. Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 2.3. Other hazards

The product does not contain any substance(s) classified as PBT or vPvB

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

**3.2 Mixtures**

| Chemical name | EC No.    | CAS No.   | Weight (%) | Classification according to (EC) 1272/2008     | REACH registration number |
|---------------|-----------|-----------|------------|------------------------------------------------|---------------------------|
| Silver        | 231-131-3 | 7440-22-4 | *          | H400 Aquatic acute 1<br>H410 Aquatic chronic 1 | 01-2119555669-21-XXXX     |
| Copper        | 231-159-6 | 7440-50-8 | *          | H411 Aquatic chronic 2                         | 01-2119480154-42-XXXX     |
| Zinc          | 231-175-3 | 7440-66-6 | *          | H400 Aquatic acute 1<br>H410 Aquatic chronic 1 | 01-2119467174-37-XXXX     |

\*withheld by supplier to protect confidential business information. Contact emergency number in SECTION 1 if more information is required.

For full text of H-phrases: see section 16

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.                                                                                                                                                                                                                                                                                                                                           |
| <b>Inhalation</b>                         | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.                                                                                                                                                                            |
| <b>Skin contact</b>                       | IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get immediate medical advice/attention.                                                                                                                                                                                             |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention.                                                                                                                                                                                                                                                         |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.                                                                                                                                                              |

**4.2. Most important symptoms and effects, both acute and delayed**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

**4.3. Indication of any immediate medical attention and special treatment needed**

|                        |                        |
|------------------------|------------------------|
| <b>Note to doctors</b> | Treat symptomatically. |
|------------------------|------------------------|

**SECTION 5: Fire fighting measures****5.1. Extinguishing media**

|                                     |                                                                      |
|-------------------------------------|----------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b> | Use water spray to cool containers. Water, CO <sub>2</sub> and sand. |
|-------------------------------------|----------------------------------------------------------------------|

**Unsuitable extinguishing media** No information available.

## **5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** No information available.

**Hazardous combustion products** Metal oxides (Copper, Zinc).

## **5.3. Advice for fire-fighters**

**Special protective equipment for fire-fighters** Fire-fighters should wear self-contained breathing apparatus and full fire fighting turnout gear. Use personal protection equipment. Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

# **SECTION 6: Accidental release measures**

## **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective equipment as required.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

## **6.2. Environmental precautions**

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Should not be released into the environment. Do not allow to enter into soil/subsoil.

## **6.3. Methods and material for containment and cleaning up**

**Methods for containment** Dyke far ahead of spill; use dry sand to contain the flow of material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Stop leak if you can do it without risk.

**Methods for cleaning up** Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains.

**Prevention of secondary Hazards** Clean contaminated objects and areas thoroughly observing environmental regulations. Wear appropriate protective equipment and ensure adequate ventilation.

## **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use personal protection equipment. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash it before reuse.

#### General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures between 5 and 35 °C. Keep away from heat, open flames and other ignition sources. Keep in properly labelled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

### 7.3. Specific end use(s)

#### Risk management methods (RMM)

The information required is contained within this safety data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Known exposure limits for components listed below.

| Chemical name | European Union            | United Kingdom            | France      | Spain   | Germany                   |
|---------------|---------------------------|---------------------------|-------------|---------|---------------------------|
| Silver        | LTEL 0.1mgm <sup>-3</sup> | LTEL 0.1mgm <sup>-3</sup> | -           | -       | -                         |
| Copper        | -                         | LTEL 0.2mgm <sup>-3</sup> | -           | -       | -                         |
| Zinc          | -                         | -                         | -           | -       | -                         |
| Chemical name | Italy                     | Portugal                  | Netherlands | Finland | Denmark                   |
| Silver        | -                         | -                         | -           | -       | -                         |
| Copper        | -                         | -                         | -           | -       | -                         |
| Zinc          | -                         | -                         | -           | -       | -                         |
| Chemical name | Austria                   | Switzerland               | Poland      | Norway  | Ireland                   |
| Silver        | -                         | -                         | -           | -       | LTEL 0.1mgm <sup>-3</sup> |
| Copper        | -                         | -                         | -           | -       | LTEL 0.2mgm <sup>-3</sup> |
| Zinc          | -                         | -                         | -           | -       | -                         |

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

**Personal protective equipment**

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>             | Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material. Eye protection must conform to standard EN 166.                                                                                                                                                                                                                                                                          |
| <b>Hand protection</b>                 | Wear suitable gloves. Impervious gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374                                                                                                                                                                                                            |
| <b>Skin and body protection</b>        | Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear fire/flame resistant/retardant clothing                                                                                                                                                                                                                                                                                                                      |
| <b>Respiratory protection</b>          | In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.                                                                                                                                                                                                                                                            |
| <b>General hygiene considerations</b>  | Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. |
| <b>Environmental exposure controls</b> | Prevent product from entering drains.                                                                                                                                                                                                                                                                                                                                                                                                                 |

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                        |                          |
|------------------------|--------------------------|
| <b>Appearance</b>      |                          |
| <b>Physical state</b>  | Solid                    |
| <b>Colour</b>          | Grey/White, metallic     |
| <b>Odour</b>           | No information available |
| <b>Odour threshold</b> | No information available |

|                                        |                           |
|----------------------------------------|---------------------------|
| <b><u>Property</u></b>                 | <b><u>Value(s)</u></b>    |
| pH                                     | No data available         |
| Melting point / freezing point         | 705-723°C                 |
| Boiling point / boiling range          | No data available         |
| Flash point                            | No data available         |
| Evaporation rate                       | No data available         |
| Flammability (solid, gas)              | No data available         |
| Flammability Limit in Air              |                           |
| Upper flammability or explosive limits | No data available         |
| Lower flammability or explosive limits | No data available         |
| Vapour pressure                        | No data available         |
| Vapour density                         | No data available         |
| Relative density                       | 9.4g/cm <sup>3</sup>      |
| Water solubility                       | Insoluble                 |
| Solubility(ies)                        | No data available         |
| Partition coefficient                  | No data available         |
| Auto ignition temperature              | No data available         |
| Decomposition temperature              | No data available         |
| Kinematic viscosity                    | No data available         |
| Dynamic viscosity                      | No data available         |
| Explosive properties                   | No information available. |
| Oxidising properties                   | No information available. |

## **9.2. Other information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |
| <b>Liquid Density</b>   | No information available |
| <b>Bulk density</b>     | No information available |

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

|                   |                                 |
|-------------------|---------------------------------|
| <b>Reactivity</b> | Stable under normal conditions. |
|-------------------|---------------------------------|

### **10.2. Chemical stability**

|                  |                                 |
|------------------|---------------------------------|
| <b>Stability</b> | Stable under normal conditions. |
|------------------|---------------------------------|

### **Explosion data**

|                                         |       |
|-----------------------------------------|-------|
| <b>Sensitivity to mechanical impact</b> | None. |
| <b>Sensitivity to static discharge</b>  | None. |

### **10.3. Possibility of hazardous reactions**

|                                           |                                                                                  |
|-------------------------------------------|----------------------------------------------------------------------------------|
| <b>Possibility of hazardous reactions</b> | Hazardous reactions will not occur under normal transport or storage conditions. |
|-------------------------------------------|----------------------------------------------------------------------------------|

### **10.4. Conditions to avoid**

|                            |                           |
|----------------------------|---------------------------|
| <b>Conditions to avoid</b> | No information available. |
|----------------------------|---------------------------|

### **10.5. Incompatible materials**

|                               |                           |
|-------------------------------|---------------------------|
| <b>Incompatible materials</b> | No information available. |
|-------------------------------|---------------------------|

### **10.6. Hazardous decomposition products**

|                                         |                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazardous decomposition products</b> | The mixture is stable at room temperature. At elevated temperatures the product may release hazardous materials, see SECTION 5.2. |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Information on likely routes of exposure**

#### **Product Information**

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. |

#### **Symptoms related to the physical, chemical and toxicological characteristics**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

**Numerical measures of toxicity****Acute toxicity**

Specific test data for the substance or mixture is not available.

**Component Information**

| Chemical name | Oral LD50    | Dermal LD50 | Inhalation LD50        |
|---------------|--------------|-------------|------------------------|
| Silver        | >2000mg/kg   | >2000mg/kg  | >5.16mg/l              |
| Copper        | 300-500mg/kg | >2000mg/kg  | >5.11mg/l              |
| Zinc          | >2000mg/kg   | -           | >5410mg/m <sup>3</sup> |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye 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** Not applicable.

**SECTION 12: Ecological information****12.1. Toxicity**

**Ecotoxicity** Based on available data, the classification criteria are not met.

**Component information**

| Chemical name | Algae | Fish                   | Micro-organisms | Crustaceans |
|---------------|-------|------------------------|-----------------|-------------|
| Silver        | -     | LC50 0.002mg/l<br>96hr | -               | -           |
| Copper        | -     | -                      | EC10 0.23mg/l   | -           |
| Zinc          | -     | -                      | EC10 100µg/l    | -           |

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

**12.2. Persistence and degradability**

**Persistence and degradability** Not biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulation** No information available.

**12.4. Mobility in soil**

**Mobility in soil** Immobile.

**Mobility** Immobile.

#### **12.5. Results of PBT and vPvB assessment**

This product is not identified as a PBT/vPvB substance.

#### **12.6. Other adverse effects**

**Other adverse effects** No information available.

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

### **SECTION 14: Transport information**

This product is not regulated for transport (ADR/RID/IMDG/IATA).

#### **ADR/RID/IMDG/IATA**

|                                           |      |
|-------------------------------------------|------|
| <b>14.1 UN number</b>                     | N/A  |
| <b>14.2 UN proper shipping name</b>       | N/A  |
| <b>14.3 Transport hazard class(es)</b>    | N/A  |
| <b>Subsidiary hazard class</b>            | N/A  |
| <b>14.4 Packing group</b>                 | N/A  |
| <b>Description</b>                        | N/A  |
| <b>14.5 Environmental hazards</b>         | None |
| <b>14.6 Special Precautions for Users</b> |      |
| <b>Special Provisions</b>                 | N/A  |

### **SECTION 15: Regulatory information**

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

##### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

##### **Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

##### **Persistent Organic Pollutants**

Not applicable

##### **Dangerous substance category per Seveso Directive (2012/18/EU)**

Not applicable

##### **Named dangerous substances per Seveso Directive (2012/18/EU)**

Not applicable

##### **Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

**TSCA** Contact supplier for inventory compliance status  
**DSL/NDSL** Contact supplier for inventory compliance status  
**EINECS/ELINCS** Contact supplier for inventory compliance status  
**ENCS** Contact supplier for inventory compliance status  
**IECSC** Contact supplier for inventory compliance status  
**KECL** Contact supplier for inventory compliance status  
**PICCS** Contact supplier for inventory compliance status  
**AICS** Contact supplier for inventory compliance status

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

**Chemical Safety Report**                      No information available

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | LTEL | LTEL (Long Term Exposure Limit)  |

**Classification procedure**

Calculation method  
Expert judgment and weight of evidence determination

**Key literature references and sources for data used to compile the SDS**

U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

27722 - Silver solder easy

|                      |                  |
|----------------------|------------------|
| <b>Issuing Date</b>  | 24-Jun-21        |
| <b>Revision Date</b> | 24-Jun-21        |
| <b>Revision Note</b> | Initial Release. |

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**