

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), as amended by Regulation (EU) 2020/878

Product Name: SIF Silver Solder Number 40

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

Product Identifier: SIF Silver Solder Number 40

### SECTION 2: Hazards identification



Hazard Statements:

- H317: May cause an allergic skin reaction (from silver)
- H373: May cause damage to organs through prolonged or repeated exposure (inhalation of metal fumes)



### SECTION 3: Composition/information on ingredients

Mixture of metal alloys in solid wire form. Main constituents

Substance	CAS No.	EC No.	Concentration	Classification (CLP)
Silver	7440-22-4	231-131-3	40%	Skin Sens. 1
Copper	7440-50-8	231-159-6	30%	-
Zinc	7440-66-6	231-175-3	30%	-

### SECTION 4: First aid measures

Inhalation: Move to fresh air. Seek medical advice if symptoms persist.

Skin contact: Wash thoroughly with soap and water.

Eye contact: Rinse cautiously with water. Remove contact lenses.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

### SECTION 5: Firefighting measures

Use dry chemical, CO<sub>2</sub> or alcohol-resistant foam. Avoid water jet.

Fumes may contain metal oxides. Firefighters should wear SCBA.

### SECTION 6: Accidental release measures

Avoid dust formation. Use mechanical means to collect material. Ensure good ventilation.

### SECTION 7: Handling and storage

Ensure adequate ventilation. Avoid inhalation of fumes. Store in a dry place in sealed containers.

### SECTION 8: Exposure controls/personal protection

Exposure controls/personal protection

Engineering controls: Use local exhaust ventilation. Monitor fume levels.

Personal protection: Safety goggles, welding helmet, gloves (EN 388), flame-resistant clothing, and suitable RPE.

Exposure limits (EH40/UK WEL, 4th edition, 2020):

- Nickel (inhalable): 0.5 mg/m<sup>3</sup> TWA (Sk)
- Chromium: 0.5 mg/m<sup>3</sup> TWA
- Manganese (respirable): 0.05 mg/m<sup>3</sup> TWA

### SECTION 9: Physical and chemical properties

Form: Solid wire. Colour: Brown. Odour: None.

Melting point: ~1440°C. Solubility: Insoluble in water.

### SECTION 10: Stability and reactivity

Stable under normal use. Avoid strong acids and oxidisers.

No hazardous polymerisation expected.

### **SECTION 11: Toxicological information**

Nickel may cause allergic skin reactions. Prolonged inhalation may affect lungs.  
Not expected to be acutely toxic. Fumes may irritate respiratory tract.

### **SECTION 12: Ecological information**

Not readily biodegradable. Avoid environmental release. Metal dust may be harmful to aquatic organisms.

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

Dispose of in accordance with local/national regulations. Do not incinerate. Collect metal waste for recycling where possible.

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

Not classified as hazardous for transport. No special precautions required.

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

Regulatory information

Regulations: Complies with REACH Regulation (EC) No. 1907/2006, as amended by (EU) 2020/878.

Prepared in anticipation of REACH Revision 2025 (Q4 expected implementation).

Complies with UK COSHH Regulations and CLP Regulation (EC) No. 1272/2008.

### **SECTION 16: Other information**

This SDS has been prepared in accordance with Regulation (EU) 2020/878. It is based on the best available knowledge as of issue date.