

Material Safety Data Sheet

FS005

Silfos[®]



1. Description of Substance / Preparation and Company

Trade Name: Silfos

Supplier: Furse
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Nottingham
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NG2 1EB

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2. Composition / Specification of Components

Hazardous Ingredients:

CAS-No	EEC-No	Name	Weight %
7440-22-4	231-131-3	Silver	14.5
7440-50-8		Copper	81.0
7723-14-0		Phosphorus	4.5

The phosphorus in phosphorus copper is a stable compound.
This alloy conforms to BS1845: 1984.CP1

3. Hazard Data

Most Important Hazards: The fumes evolved from the silver-copper phosphorus system are not known to give any harmful effects in normal use.

Specific Hazards: None

4. First Aid Procedure

General Advice: Show this safety data sheet to the doctor in attendance

After Inhalation: Remove patient to fresh air. Seek medical attention if respiratory symptoms develop.

After Skin Contact: Wash hands with soap and water after handling brazing alloy. If skin irritation develops seek medical attention.

After Eye Contact: If alloy is in powder form and dust gets into eyes, irrigate with copious quantities of water or isotonic saline. Seek medical attention

After Ingestion: If Alloy is ingested in powder form, rinse mouth with water. Give patient water or milk to drink. Do not induce vomiting. Seek medical attention.

5. Fire Fighting Procedure

Suitable Extinguishing Media: Extinguish with dry powder or Carbon Dioxide (CO₂).

Extinguishing media that should not be used for safety reasons: Water.

Specific Hazards: Non-flammable. Molten metal is explosive if sprayed with water.

Special Protective Equipment: Wear self contained breathing apparatus for fire fighting if necessary.

Thomas&Betts

Special Methods: Not applicable.

6. Procedure in Case of Unintended Liberation

Personal Precautions: Wear personal protective equipment. If alloy is in powder form avoid getting dust in the eyes or breathing metal dust.

Environmental Precautions: Not applicable.

Cleaning / Absorption Procedure: Not applicable.

7. Handling and Storage

Information for Safe Handling: When using do not eat drink or smoke.

Storage: No special precautions required.

8. Exposition Limits and Personal Protective Equipment

Data Taken from Health and Safety Executive Document EH40/96

Occupational Exposure Limits:

Long Term Exposure Limit	(8 hour TWA Value)
Short Term Exposure Limit	(15 Minute TWA Value)

Constituents and Decomposition Products:

OES Silver, Metallic (under review)	0.10 mg m ⁻³
OES Copper, fume	0.20 mg m ⁻³

Personal Protective Equipment: Wear suitable protective clothing, gloves and eye/face protection during brazing.

9. Physical and Chemical Properties

Form: Metal: rods, strip, wire, rings, preforms or powders.

Colour: Metallic brown.

Odour: None.

pH: Not applicable.

Melting Point / Range: 645 – 800°C

Relative Density: 8.4 at 20°C

Water Solubility: Very slight.

10. Stability and Reactivity

Stability: Stable.

Conditions to avoid: Not applicable.

Materials to avoid: Not applicable.

Hazardous Decomposition Products: Diphosphorus pentoxide.

11. Toxicological Data

Acute Toxicity: Not known.

Local Effects: Not known.

Sensitization: Not known.

Long Term Toxicity: Not known.

Chronic Toxicity: Not known.

12. Ecological Data

Mobility: No information.

Persistence and Degradability: Long term corrosion.

Bioaccumulation: No information.

Ecotoxicity Effects: No information.

13. Disposal Data

Waste From Residues / Unused Products: Return unused product to supplier.

Contaminated Packaging: Not applicable.

14. Transportation Data

Proper Shipping Name: Metal alloy.

15. Instructions

Classification According to European Directive on Classification of Hazardous Preparation 90/492 EEC

Contains:

Symbol(s): Not applicable.

(R-Phrases): Not applicable.

(S-Phrases):
S20/21: When using do not eat, drink or smoke.
S22: Do not breathe dust.
S36/37/39: Wear suitable protection clothing, gloves and eye/face protection.

16. Miscellaneous

Recommended Use: For flux free brazing of copper or high copper content alloys.

Recommended Restrictions: Not to be used on ferrous or nickel based parent metals. Joints should not be exposed to sulphur containing atmospheres in service.

Further information: Contact the Furse Technical Department.

Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.

This data sheet does not constitute a user's assessment of workplace risk as required by the HSW Act, COSHH, Management of Health and Safety at Work legislation, or any other Health and Safety legislation.

The information given in this Safety Data Sheet is based on current knowledge and experience and is intended to describe the products in terms of their health and safety requirements. It should not therefore be construed as guaranteeing specific properties.

