

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/16/2017 Version: 5.0

| SECTION 1: Identification | | | |
|---|---|--------------------|-----------|
| 1.1. Identification | | | |
| Product form | : Mixture | | |
| Trade name | : SIL-FOS® 5 | | |
| Product code | : A0000025 | | |
| 1.2. Recommended use and restriction | ns on use | | |
| Recommended use | : Alloys for brazing/soldering and other metallurgical p | rocesses | |
| 1.3. Supplier | | | |
| Lucas-Milhaupt, Inc. | | | |
| 5656 South Pennsylvania Ave. | | | |
| Cudahy, WI 53110 - USA | | | |
| Γ (414)-769-6000 _M_SDSinfo@lucasmilhaupt.com - www.Luca | smilbaupt.com | | |
| | <u>ommaapom</u> | | |
| 1.4. Emergency telephone number | | | |
| Emergency number | : CHEMTREC within the USA and Canada: 1-800-424 CHEMTREC outside the USA and Canada +1 701-7 | | |
| | | 41-5570 | |
| SECTION 2: Hazard(s) identificatio | n | | |
| 2.1. Classification of the substance or | | | |
| GHS-US classification | | | |
| | | | |
| Not classified | | | |
| .2. GHS Label elements, including pr | ecautionary statements | | |
| GHS-US labelling | | | |
| No labelling applicable | | | |
| 2.3. Other hazards which do not result | t in eleccification | | |
| No additional information available | In classification | | |
| 2.4. Unknown acute toxicity (GHS US) | | | |
| Not applicable | | | |
| | | | |
| SECTION 3: Composition/informat | ion on ingredients | | |
| 3.1. Substances | | | |
| Not applicable | | | |
| 3.2. Mixtures | | | |
| Name | F | Product identifier | % |
| Copper | (| CAS-No.) 7440-50-8 | 87 - 91 |
| Phosphorus | (| CAS-No.) 7723-14-0 | 5.8 - 6.2 |
| Silver | (| CAS-No.) 7440-22-4 | 4.8 - 5.2 |
| Full text of hazard classes and H-statements : | see section 16 | | |
| SECTION 4: First-aid measures | | | |
| | | | |
| I.1. Description of first aid measures | · Demonstration to facely classes discusses () () (| n h na athlia a | |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable fo | r breatning. | |
| First-aid measures after skin contact | : Wash skin with plenty of water. | | |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. | | |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. | | |
| I.2. Most important symptoms and eff | ects (acute and delayed) | | |
| | : None under normal conditions. | | |
| Symptoms/effects after skin contact | | | |
| | : None under normal conditions. | | |
| Symptoms/effects after skin contact Symptoms/effects after ingestion 4.3. Immediate medical attention and s | | | |
| Symptoms/effects after ingestion | | | |

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| SECTION 5: Fire-fighting measures | | |
| 5.1. Suitable (and unsuitable) extinguishing media | | |
| Suitable extinguishing media | : Dry powder. Water spray. Foam. | |
| Unsuitable extinguishing media | : Water. | |
| 5.2. Specific hazards arising from the ch | emical | |
| Fire hazard | : Flammable solid. | |
| Reactivity | : The product is non-reactive under normal conditions of use, storage and transport. Flammable solid. | |
| 5.3. Special protective equipment and pr | recautions for fire-fighters | |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. | |
| SECTION 6: Accidental release meas | sures | |
| 6.1. Personal precautions, protective equilation | uipment and emergency procedures | |
| 6.1.1. For non-emergency personnel | | |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. | |
| 6.1.2. For emergency responders | | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information | |
| | refer to section 8: "Exposure controls/personal protection". | |
| 6.2. Environmental precautions | | |
| Avoid release to the environment. | | |
| 6.3. Methods and material for containme | ent and cleaning up | |
| For containment | : Collect spillage. | |
| Methods for cleaning up | : Mechanically recover the product. Notify authorities if product enters sewers or public waters. | |
| Other information | : Dispose of materials or solid residues at an authorized site. | |
| 6.4. Reference to other sections | | |
| For further information refer to section 13. | | |
| SECTION 7: Handling and storage | | |
| 7.1. Precautions for safe handling | | |
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. | |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. | |
| 7.2. Conditions for safe storage, including | ng any incompatibilities | |
| Technical measures | : Ground/bond container and receiving equipment. | |
| Storage conditions | : Store in a well-ventilated place. Keep cool. Protect from sunlight. Keep away from ignition | |

SECTION 8: Exposure controls/personal protection

sources.

8.1. **Control parameters**

| Silver (7440-22-4) | | | |
|--------------------|--------------------------------------|---|-----|
| ACGIH | ACGIH TWA (mg/m ³) | 0.1 mg/m ³ (dust and fume) | |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 0.01 mg/m ³ | |
| IDLH | US IDLH (mg/m³) | 10 mg/m³ (dust) | |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.01 mg/m ³ (dust) | |
| Copper (7440-50-8) | | | |
| ACGIH | ACGIH TWA (mg/m ³) | 0.2 mg/m³ (fume) | |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 0.1 mg/m ³ (fume) 1 mg/m ³ (dust and mist) | |
| IDLH | US IDLH (mg/m³) | 100 mg/m ³ (dust, fume and mist) | |
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| Copper (7440-50-8) | Copper (7440-50-8) | |
|------------------------|--------------------------------------|---|
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 1 mg/m ³ (dust and mist) 0.1 mg/m ³ (fume) |
| Phosphorus (7723-14-0) | | |
| Not applicable | | |

8.2. Appropriate engineering controls

: Ensure good ventilation of the work station.

Appropriate engineering controls Environmental exposure controls

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

| 9.1. Information on basic physical and chemical properties Physical state : Solid Appearance : Metallic luster - color varies, various forms. Colour : No data available Odour : No data available Odour threshold : No data available PH : No data available Odiur threshold : No data available PH : No data available Boling point : No data available Flash point : No data available Flash point : No data available Relative evaporation rate (butylacetate=1) : No data available Relative evapor density at 20 °C : No data available Relative density : No data available Relative density at 20 °C : No data available Log Pow : No data available Log P | SECTION 9: Physical and chemical properties | |
|---|---|--|
| Appearance:Metallic luster - color varies, various forms.Colour:No data availableOdour:No data availableOdour threshold:No data availablepH:No data availableMeting point:No data availableFreezing point:No tata availableBoiling point:No tata availableFleazing point:No tata availableBoiling point:No tata availableBoiling point:No data availableFlash point:No data availableFlash point:No data availableRelative evaporation rate (butylacetate=1):No data availableFlammablity (solid, gas):Flammable solid.Vapour pressure:No data availableRelative vapour density at 20 °C:No data availableSolubility:No data availableLog Pow:No data availableLog Pow:No data availableAuto-ignition temperature:No data availableViscosity, kinematic:No data availableViscosity, kinematic:No data availableViscosity, dynamic:No data availableExplosive initis:No data available< | 9.1. Information on basic physical and | d chemical properties |
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| Relative evaporation rate (butylacetate=1):NoFlammability (solid, gas):Flammable solid.Vapour pressure:No data availableRelative vapour density at 20 °C:No data availableRelative density:No data availableSolubility:No data availableLog Pow:No data availableAuto-ignition temperature:No data availableDecomposition temperature:No data availableViscosity, kinematic:Not applicableViscosity, dynamic:Not applicableExplosive limits:Not applicableExplosive properties:Not applicable | Boiling point | : No data available |
| Flammability (solid, gas):Flammable solid.Vapour pressure:No data availableRelative vapour density at 20 °C:No data availableRelative density:No data availableSolubility:No data availableLog Pow:No data availableAuto-ignition temperature:No data availableDecomposition temperature:No data availableViscosity, kinematic:No tapplicableViscosity, dynamic:No tapplicableExplosive limits:No tapplicableExplosive properties:No data available | Flash point | : Not applicable |
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| Relative density: Not applicableSolubility: Not data availableLog Pow: Not data availableAuto-ignition temperature: Not applicableDecomposition temperature: Not data availableViscosity, kinematic: Not applicableViscosity, dynamic: Not data availableExplosive limits: Not applicableExplosive properties: Not applicable | Vapour pressure | : No data available |
| Solubility: No data availableLog Pow: No data availableAuto-ignition temperature: Not applicableDecomposition temperature: No data availableViscosity, kinematic: Not applicableViscosity, dynamic: No data availableExplosive limits: Not applicableExplosive properties: Not applicable | Relative vapour density at 20 °C | : No data available |
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| Auto-ignition temperature: Not applicableDecomposition temperature: Not aavailableViscosity, kinematic: Not applicableViscosity, dynamic: Not data availableExplosive limits: Not applicableExplosive properties: Not aavailable | Solubility | : No data available |
| Decomposition temperature: No data availableViscosity, kinematic: Not applicableViscosity, dynamic: No data availableExplosive limits: Not applicableExplosive properties: No data available | Log Pow | : No data available |
| Viscosity, kinematic: Not applicableViscosity, dynamic: No data availableExplosive limits: Not applicableExplosive properties: No data available | Auto-ignition temperature | : Not applicable |
| Viscosity, dynamic: No data availableExplosive limits: Not applicableExplosive properties: No data available | Decomposition temperature | : No data available |
| Explosive limits : Not applicable Explosive properties : No data available | Viscosity, kinematic | : Not applicable |
| Explosive properties : No data available | Viscosity, dynamic | : No data available |
| | Explosive limits | : Not applicable |
| Oxidising properties : No data available | Explosive properties | : No data available |
| | Oxidising properties | : No data available |

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Flammable solid.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Acute toxicity | : Not classified |
|--|---------------------------------|
| SIL-FOS® 5 | |
| ATE US (oral) | 50.5 mg/kg bodyweight |
| ATE US (dermal) | 1666.667 mg/kg bodyweight |
| Silver (7440-22-4) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after ingestion | : None under normal conditions. |

| SECTION 12: Ecological inf | |
|----------------------------|--|
| 2.1. Toxicity | |
| cology - general | : Very toxic to aquatic life. |
| Silver (7440-22-4) | |
| LC50 fish 1 | 0.00155 - 0.00293 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 0.00024 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC50 fish 2 | 0.0062 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| Copper (7440-50-8) | |
| LC50 fish 1 | 0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas) |
| EC50 Daphnia 1 | 0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC50 fish 2 | < 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

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| Phosphorus (7723-14-0) | |
|------------------------|--|
| LC50 fish 1 | 0.0017 - 0.0035 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| EC50 Daphnia 1 | 0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | 0.001 - 0.004 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 2 | 0.025 - 0.037 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

| Phosphorus (7723-14-0) | | |
|------------------------|------------------|-------|
| BCF fi | sh 1 | < 200 |
| 12.4. | Mobility in soil | |

No additional information available

12.5. Other adverse effects

| Phosphorus (7723-14-0) | |
|--|-----|
| 1990 Hazardous Air Pollutant (Clean Air Act) | Yes |

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

| Silver (7440-22-4) | |
|---|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ 1000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm | |
| Copper (7440-50-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μm |

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| Phosphorus (7723-14-0) | |
|--|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 1 lb |
| Section 302 EPCRA Reportable Quantity (RQ) | 1 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 100 lb (this material is a reactive solid, the TPQ does not default to 10000 pounds for non- powder, non-molten, non-solution form) |

15.2. International regulations

| Silver (7440-22-4) |
|--|
| Listed on the TCSI (Taiwan Chemical Substance Inventory) |
| Copper (7440-50-8) |
| Listed on the TCSI (Taiwan Chemical Substance Inventory) |
| Phosphorus (7723-14-0) |
| Listed on the TCSI (Taiwan Chemical Substance Inventory) |

15.3. US State regulations

| Silver (7440-22-4) | |
|--|--|
| U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List | |
| Copper (7440-50-8) | |
| U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List | |
| Phosphorus (7723-14-0) | |
| U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List | |

SECTION 16: Other information

| NFPA health hazard | : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury. |
|--------------------------|--|
| NFPA fire hazard | : 1 - Materials that must be preheated before ignition can occur. |
| NFPA reactivity | : 0 - Material that in themselves are normally stable, even under fire conditions. |
| Hazard Rating | |
| Health | : 2 Moderate Hazard - Temporary or minor injury may occur |
| | * - Chronic (long-term) health effects may result from repeated overexposure |
| Flammability | 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) |
| Physical | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |
| Personal protection | : B |
| | B - Safety glasses, Gloves |
| SDS US (GHS HazCom 2012) | |

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