



**SAFETY DATA SHEET**

SDS Name: **Sil Sol 15% Silver-Phos Rod**  
SolderWeld, Inc.

---

**SECTION I: Identification of the substance/mixture and the company**

**1.1 Product Identifier**

Product name: **Sil Sol 15%**

---

**1.2 Relevant Identified uses of the substance and uses advised against**

**1.2.1 Relevant identified uses**

Main use category : Professional Use  
Industrial/Professional use spec : For Professional use only  
Use of substance : Brazing, soldering, and welding products, flux products

**1.2.2 Uses advised against**

No additional information available

---

**1.3 Details of Supplier of the Safety Data Sheet**

SolderWeld, Inc.  
2050 N 300 W #72  
Spanish Fork, UT 84660  
USA  
800-356-8449  
info@solderweld.com

---

**1.4 Emergency Telephone Number**

Emergency Number : 001-800-424-9300 (Chemtrec)

---

**SECTION 2: Hazards Identification**

---

**2.1 Classification of the substance**

Classification according to regulation (EC) No. 1272/2008 [CLP]  
Not classified

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008 [CLP]**

Child resistant fastening : No  
Tactile warning : No

**2.3 Other Hazards**

---

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.  
Other hazards not contributing to the classification : None under normal conditions

## SAFETY DATA SHEET

**SECTION 3: Composition/information on ingredients****3.1 Mixture**

| Component   | Product Identifier   | %      | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|--------|---|
| red phosphorus  | (CAS No.) 7723-14-0<br>(EC no) 231-768-7<br>(EC index no) 015-002-00-7 | 5-7.25 | Flam. Sol. 1, H228<br>Aquatic Chronic 3, H412                   |
| Silver<br>substance with a community workplace exposure limit | (CAS No.) 7440-22-4<br>(EC no) 231-131-3                               | < 20   | Not classified  |

Full text of H-statements : see section 16

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

|  |  |
|--|--|
| First aid measures general:            | If you feel unwell, seek medical advice. (show label where possible)   |
| First aid measures after inhalation:   | Remove person to fresh air and keep comfortable for breathing, seek medical advice.  |
| First aid measures after skin contact: | Wash skin with plenty of water. If skin irritation rash occurs: Get medical advice/attention.  |
| First aid measures after eye contact:  | Rinse eyes cautiously with water for several minutes. If eye irritation persists. Get medical attention/advice.  |
| First aid measures after ingestion:    | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If large quantities are ingested, Get medical attention/advice. |

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

|                                       |  |
|---------------------------------------|--|
| Symptoms/injuries after inhalation:   | May cause respiratory irritation.  |
| Symptoms/injuries after skin contact: | Repeated or prolonged contact may cause slight irritation to the skin.                             |
| Symptoms/injuries after eye contact:  | Dust from this product may cause eye irritation.   |
| Symptoms/injuries after ingestion:    | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. |

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media: Dry Powder

**5.2 Special hazards arising from the mixture**

|   |                               |
|---|-------------------------------|
| Fire hazard:                                      | The product is not flammable. |
| Explosion hazard:                                 | Product is not explosive      |
| Reactivity in case of fire:                       | Not known                     |
| Hazardous decomposition products in case of fire: | Toxic fumes may be released.  |

**5.3 Advice for firefighters**

|                                 |  |
|---------------------------------|--|
| Precautionary measure fire:     | No special measures required   |
| Firefighting instructions:      | Use extinguishing media appropriate for surrounding fire.  |
| Protection during firefighting: | Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

---

**SECTION 6: Accidental release measures**

---

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

---

General measures: Avoid release to the environment

**6.1.1 For non-emergency personnel**

Protective equipment: Wear suitable protective clothing, gloves and eye or face protection.

Emergency procedures: Ventilate area. Avoid contact with skin and eyes. Avoid breathing dust/fume.

**6.1.2 For emergency responders**

Protective equipment: Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection".

Avoid contact with skin and eyes. Avoid breathing dust/fume.

Emergency procedures: Ventilate area.

**6.2 Environmental precautions**

---

Avoid release to the environment.

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

---

For containment: Collect spillage

Methods for cleaning up: Place in a suitable container to be disposed of in accordance with the waste regulations ( see section 13)

Other information: Dispose of in accordance with relevant local regulations.

**6.4 Reference to other sections**

---

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer section 13: "Disposal considerations".

---

**SECTION 7: Handling and storage**

---

**7.1 Precautions for safe handling**

---

Precautions for safe handling: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

**7.2 Conditions for safe storage, including any incompatibilities**

---

Technical measures: Ensure adequate ventilation, especially in confined areas.

Storage conditions: Store locked up. Store in well-ventilated place. Keep cool

Incompatible products: Acetylene, ammonia, ammonium nitrate, aqua regia, dioxane, ethylene oxide, chlorine trifluoride, halogens, hydrogen peroxide, hydrazine, mononitrate, hydrazoic acid, hydroxylamine, hydrogen sulfide, performic acid, phosphorus, selenium, sulfur, titanium plus potassium chlorate, bromates chlorates and iodate of alkali and alkali earth metals.

Storage area: Store in a well-ventilated area.

Packaging materials: Keep only in original container.

**7.3 Specific end use**

---

Other hot work operations with metals.

---

**SECTION 8: Exposure controls/personal protection**

---

**8.1 Control parameters**

|                           |                   |                  |
|---------------------------|-------------------|------------------|
| <b>Silver (7440-22-4)</b> |                   |                  |
| EU                        | Local name        | Silver, metallic |
| EU                        | IOELV TWA (mg/m3) | 0.1 mg/m3        |

**8.2 Exposure controls**

|                                    |   |
|------------------------------------|---|
| Appropriate engineering controls:  | Ensure good ventilation of the work station                           |
| Personal protective equipment:     | Gloves. Protective goggles. Face shield. Protective clothing.         |
| Materials for protective clothing: | Wear suitable protective clothing                                     |
| Hand protection:                   | Protective gloves   |
| Eye protection:                    | Safety glasses or face shield   |
| Skin and body protection:          | Wear suitable protective clothing                                     |
| Respiratory protection:            | In case of insufficient ventilation, wear suitable respiratory equip. |



Environmental exposure controls: Avoid release to the environment.

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

|                                 |  |
|---------------------------------|--|
| Physical state:                 | Solid                                  |
| Appearance:                     | Silver-gray alloy. Metallic wire, rod. |
| Color:                          | Silver                                 |
| Odor:                           | odorless                               |
| Odor Threshold:                 | No data available                      |
| pH:                             | No data available                      |
| Relative evaporation rate:      | No data available                      |
| Melting point:                  | No data available                      |
| Freezing point:                 | Not applicable                         |
| Boiling point:                  | No data available                      |
| Flash point:                    | Not applicable                         |
| Auto-ignition temp:             | Not applicable                         |
| Decomposition temperature:      | No data available                      |
| Flammability (solid, gas):      | Non flammable                          |
| Vapor pressure:                 | No data available                      |
| Relative vapor density at 20 C: | No data available                      |
| Relative density:               | Not applicable                         |
| Solubility:                     | Insoluble in water                     |
| Log pow:                        | No data available                      |
| Viscosity, kinematic:           | Not applicable                         |
| Viscosity, dynamic:             | No data available                      |
| Explosive properties:           | Product is not explosive               |
| Oxidizing properties:           | Oxidizing solids Not applicable        |
| Explosive limits:               | Not applicable                         |

**9.2 Other information**

No additional information available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

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

**10.2 Chemical stability**


---

Safe 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)

**10.5 Incompatible materials**


---

Acetylene, ammonia, ammonium nitrate, aqua regia, dioxane, ethylene oxide, chlorine trifluoride, halogens, hydrogen peroxide, hydrazine, mononitrate, hydrazoic acid, hydroxylamine, hydrogen sulfide, performic acid, phosphorus, selenium, sulfur, titanium plus potassium chlorate, bromates chlorates and iodate of alkali and alkali earth metals.

**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   |
| Skin corrosion/irritation:                          | Not classified Contact dermatitis may result from direct exposure to the skin  |
| Serious eye damage/irritation:                      | Not classified   |
| Respiratory or skin sensitization:                  | Not classified Long term exposure to brazing fume, gasses or dust may contribute to pulmonary irritation or pneumoconiosis |
| 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   |

**SECTION 12: Ecology information****12.1 toxicity**


---

|                    |  |
|--------------------|--|
| Ecology - general: | The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment |
| Ecology- Water:    | The product does not have any known adverse effect on the tested aquatic organisms.                                  |

**12.2 Persistence and degradability**


---

|                                |                           |
|--------------------------------|---------------------------|
| Persistence and degradability: | Not readily biodegradable |
|--------------------------------|---------------------------|

**12.3 Bioaccumulative potential**


---

|                            |                 |
|----------------------------|-----------------|
| Bioaccumulative potential: | Not established |
|----------------------------|-----------------|

**12.4 Mobility in soil**


---

|                 |                 |
|-----------------|-----------------|
| Ecology - Soil: | Not established |
|-----------------|-----------------|

**12.5 Results of PBT and vPvB assessment**


---

No additional information available

**12.6 Other adverse effects**


---

|                         |                                  |
|-------------------------|----------------------------------|
| Other adverse effects:  | None known                       |
| Additional information: | Avoid release to the environment |

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

|                                 |   |
|---------------------------------|---|
| Regional legislation (waste):   | Disposal must be done according to official regulations                                   |
| Waste treatment methods:        | Dispose of contents/container in accordance with licensed collectors sorting instructions |
| Waste disposal recommendations: | Dispose of contents/container to a hazardous or special waste facility.                   |

**SECTION 14: Transport information****In accordance with ADR / RID / IMDG / IATA / ADN****14.1 UN number**

Not regulated for transport

**14.2 UN proper shipping name**

|                              |                |
|------------------------------|----------------|
| Proper shipping name (ADR)   | Not applicable |
| Proper shipping name (IMDG)  | Not applicable |
| Proper shipping name. (IATA) | Not applicable |
| Proper shipping name (ADN)   | Not applicable |
| Proper shipping name (RID)   | Not applicable |

**14.3 Transport hazard class(es)**

|                            |                |
|----------------------------|----------------|
| ADR                        |                |
| Transport hazard class(es) | Not Applicable |
| IMDG                       |                |
| Transport hazard class(es) | Not Applicable |
| IATA                       |                |
| Transport hazard class(es) | Not Applicable |
| ADN                        |                |
| Transport hazard class(es) | Not Applicable |
| RID                        |                |
| Transport hazard class(es) | Not Applicable |

**14.4 Packing group**

|                      |                |
|----------------------|----------------|
| Packing group (ADR)  | Not applicable |
| Packing group (IMDG) | Not applicable |
| Packing group (IATA) | Not applicable |
| Packing group (ADN)  | Not applicable |
| Packing group (RID)  | Not applicable |

**14.5 Environmental hazards**

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | No                                     |
| Marine pollutant              | No                                     |
| Other information             | No supplementary information available |

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance****15.1.1 EU-regulations**

Contains no REACH substances with Annex XVII restrictions  
 Contains no substance on the REACH candidate list  
 Contains no REACH Annex XIV substances

**15.1.2 National regulations**

No additional information available

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Full text of H- and EUH- statements:

|                   |  |
|-------------------|--|
| Aquatic Chronic 3 | Hazardous to the aquatic environment -<br>Chronic Hazard, Category 3 |
| Flam. Sol. 1      | Flammable solids, Category 1   |
| H228              | Flammable solid  |
| H412              | Harmful to Aquatic life with long lasting effects                    |

\*This information must be included in all SDS that are copied and distributed for this material.

Please retain this sheet for your files. SolderWeld, Inc. maintains a file of Safety Data Sheets (SDS) for each rods and fluxes produced in compliance with Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) & various right-to-know laws.

The information and recommendations contained within this publication have been compiled from sources believed to be reliable and to represent the best information available to SolderWeld, Inc. at the time of issue. It is our policy to include an SDS with initial orders for each product. This submission is to become a matter of record and need not accompany subsequent shipments for the same product to the same customer. The information contained on this sheet is intended solely for employee health and safety education and not for contract specification purposes. No warranty, guarantee, or representation is made by SolderWeld, Inc., nor does SolderWeld, Inc. assume any responsibility in connection there within; nor can it be assumed that all acceptable safety measures or other safety measures may not be required under particular or exceptional conditions or circumstances. Should you need additional information, contact us.