SAFETY DATA SHEET
SDS Name: **Sil Sol 56% Flux-Coated Silver Solder**
SolderWeld, Inc.

SECTION I: Indentification of the substance/mixture and the company

1.1 Product Identifier

Product Name: **Sil Sol 56%**

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.
P.O. Box 518
Spanish Fork, Utah 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]

Sensitization - Skin, Category 1 H317
Carcinogenicity, Category 2 H351
See section 16 for full text of H Statements

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. May cause an allergic skin reaction

2.2 Label elements

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

Hazard pictograms :  GHS07  GHS08

Signal Word (CLP) : Warning
Hazardous ingredients : METHACRYLATE/ALIPHATIC & NAPHTHENIC HYDROCARBON COMPOUND
Hazard statements (CLP) : H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer (inhalation)
Precautionary statements : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read
: P261 - Avoid breathing dust, fume
: P272 - Contaminated work clothing should not be allowed out of workplace
: P280 - Wear protective gloves, eye protection, face protection, protective clothing
: P302+P352 - IF ON SKIN: Wash with plenty of soap and water
: P308+P313 - IF exposed or concerned: Get medical advice/ attention
: P333+P313 - IF skin irritation or rash occurs: Get medical advice/attention
: P362+P364 - Take off contaminated clothing and wash it before reuse
: P405 - Store locked up
: P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3 Other Hazards

No additional information available

SECTION 3: Hazards Identification

3.1 Mixture

Component	CAS Number	EC Number	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silver	7440-22-4	231-131-3	56	Not Classified
boric acid	10043-35-3	233-139-2	1-10	Repr. 1B, H360FD
Methacrylate/Aliphatic & Naphthenic Hydrocarbon compound			1-10	Skin Send. 1B H317 Cars.2, H351 STOT SE 3, H335

Specific concentration limits:

Name	Product Identifier	Specific concentration limits
Boric Acid	(Cas No.) 10043-35-3 (EC No.) 233-139-2 (EC index No.) 005-007-00-2	(C>= 5.5) Repr. 1B, H360FD

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. If experiencing respiratory symptoms: Call a poison center or doctor.

First aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation rash occurs: Get medical advice/attention.

First aid measures after eye contact: Rinse eyes with water as a precaution. Occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 5 minutes. If eye irritation persists. Get medical attention/advice.

First aid measures after ingestion: Rinse mouth. Do not induce vomiting. Get medical attention/advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: Prolonged and frequent exposure through inhalation may cause cancer. May cause respiratory irritation.

Symptoms/injuries after skin contact: May cause an allergic skin reaction.

Symptoms/injuries after eye contact: Dust from this product may cause eye irritation.

Symptoms/injuries after ingestion: May cause irritation to the respiratory tract and to other mucous membrane.

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: Ensure adequate ventilation

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.

Measures in case of dust release: Where excessive dust may result, use approved respiratory protection equip.

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: Evacuate unnecessary personnel. Ventilate area.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

For containment: No special measures required.

Methods for cleaning up: Recover mechanically the product. This material and its container must be disposed of in a safe way and as per local legislation.

Other information: Dispose of in accordance with relevant local regulations. This material and its container must be disposed of as hazardous waste.

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 section13: “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

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

8.2 Exposure controls

Appropriate engineering controls: Provide adequate general and local exhaust ventilation

Personal protective equipment: Combined gas/dust mask with filter type P3. Gloves. Safety glasses.

Protective clothing.
Materials for protective clothing: Wear suitable protective clothing
Hand protection: Protective gloves
Eye protection: Safety glasses.
Skin and body protection: Wear suitable protective clothing
Respiratory protection: Combined gas/dust mask with filter type P3



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:	Metallic
Odor:	Characteristic
Odor Threshold:	No data available
pH:	No data available
Relative evaporation rate:	No data available
Melting point:	660 degrees Celsius
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
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	May cause an allergic skin reaction
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Suspected of causing cancer (inhalation)
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 Persistance 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

Component-	
Boric Acid (10043-35-3)	This substance does not meet the PBT criteria of REACH regulation, annex XIII. This substance does not meet the vPvB criteria of REACH regulation, annex XIII

12.6 Other adverse effects

Other adverse effects:	None known
Additional information:	No other effects known

SECTION 13: Disposal consideration

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

UN-No. (ADR)	Not applicable
UN-No. (IMDG)	Not applicable
UN-No. (IATA)	Not applicable
UN-No. (ADN)	Not applicable
UN-No. (RID)	Not applicable

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 REACH Candidate list substance(s): Boric Acid (EC 233-139-2, CAS 10043-35-3)

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:

Carc. 2	Carcinogenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Sens. 1B	Sensitization - Skin, Category 1B
STOT SE 3	Specific target organ toxicity - single exposure, Category 3 , respiratory tract irritation
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H360FD	May damage fertility. May damage the unborn child

*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.