



SAFETY DATA SHEET

SDS Name: Alloy Sol Aluminum Repair Rods
SolderWeld, Inc.

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

1.1 Product Identifier

Product name: Alloy Sol Aluminum Repair Rods

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

CLP/GHS Classification (1272/2008):

Flammable Solids, Category 2

EU Classification (67/548/EEC):

Highly Flammable (F), R11

Hazardous Classification per 29CFR 1910.1200 (Rev. July 1, 2012):

Flammable Solids, Category 2

2.2 Label elements

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Hazard pictograms (CLP)

Signal word (CLP) : Warning
 Hazardous ingredients : Not applicable

Hazard statements (CLP) : H228 – Flammable Solid








Precautionary statements (CLP) : P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 P241 – Use explosive-proof electrical/ventilating/lighting/equipment.
 P280 – Wear protective gloves/eye protection/face protection.

2.3 Other Hazards

No additional information available

SECTION 3: Hazards Identification

3.1 Mixture

Chemical Identity	CAS #	Range %	OSHA PEL (mg/m3)	ACGIH-TLV (mg/m3)	Carcinogenicity	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)	Hazardous Classification per 29CFR 1910.1200 (Rev. July, 2012)
#Aluminum	7429-90-5	80-95	5 (as fume)	Not Regstrd.	No	 (F) R11 – R15	(H228) Flam. Sol. 2  (H261) Water-react. 3 	(H228) Flam. Sol. 2 (H261) Water-react. 3 
Silicon	7440-21-3	5-15	4 (as SiO ₂)	3 (as SiO ₂)	No	 (F) R11		(H228) Flam. Sol. 2 

SECTION 4: First aid measures

4.1 Description of first aid measures

First aid measures general:

First aid measures after inhalation: Remove to fresh air immediately or administer oxygen. Get medical attention immediately.

First aid measures after skin contact: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

First aid measures after eye contact: Flush eyes with water for at least 15 minutes. Get medical attention.

First aid measures after ingestion: Obtain medical attention immediately if ingested. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause moderate irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : Harmful if swallowed.

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: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Welding arcs and sparks can ignite combustible and flammable materials. Use the extinguishing media recommended for the burning material and fire situation.

Unsuitable Extinguishing Media: Do not use water on molten metal. Large fires may be flooded with water from a distance.

5.2 Special hazards arising from the mixture

Fire hazard: No additional information provided

Explosion hazard: No additional information provided

Reactivity in case of fire: Aluminium oxides, Silicon oxides

Hazardous decomposition

products in case of fire: No additional information provided

5.3 Advice for firefighters

Precautionary measure fire: Refer to section 8.

Protection during firefighting: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures:

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

Avoid exposure to welding fumes, spatter, heated materials and dust. Ensure sufficient ventilation, local exhaust, or both, to keep welding fumes and gases from breathing zone and general area. Keep work place and protective clothing clean and dry. Train welders to avoid contact with live electrical parts and insulate conductive parts. Check condition of protective clothing and equipment on a regular basis.

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.

EN (English)

Materials for protective clothing: Protective clothing.
 Hand protection: Wear suitable protective clothing
 Eye protection: Protective gloves EN 12477: Protection gloves for welders
 Skin and body protection: Safety glasses.
 Respiratory protection: Wear suitable protective clothing
 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

Appearance:	: Solid.
Color:	: Metallic
Odour:	: Odourless
Odour Threshold:	: Not Available
pH Value:	: Not Available
Melting Point/Melting Range:	: 1080°F, 582°C.
Freezing Point:	: Not Available
Boiling Point/Boiling Range:	: Not Available
Flash point:	: Not Available
Evaporation Rate:	: Not Available
Self-in flammability:	: Not Available
Explosion limits:	: Not Available
Vapour pressure:	: Not Available
Vapour density:	: Not Available
Density at 20°C:	: Not Available
Relative density	: 6 g/cm ³
Solubility:	: Insoluble in water.
Partition coefficient:	: Not Available
Auto-ignition temperature:	: Not Available
Decomposition temperature:	: Not Available

9.2 Other information

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

This product is stable under normal conditions.

Safe under normal conditions

10.3 Possibility of hazardous reactions

Contact with chemical substances like acids or strong bases cause generation of gas. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

10.4 Conditions to avoid

Not applicable.

10.5 Incompatible materials

Reacts with acid and water

10.6 Hazardous decomposition products

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When this product is used in a welding process, hazardous decomposition product would include those from volatilization, reaction or oxidation of the material listed in section 3 and those from the base metal and coating. The amount of fumes generated from this product varies with welding parameters and dimensions.

Refer to applicable national exposure limits for fume compounds, including those exposure limits for fume compounds found in section 3. Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone. Air contaminants around the welding area can be affected by the welding process and influence the composition and quality of fumes and gases produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Signs and Symptoms of Overexposure: Inhalation of welding fumes and gases can be dangerous to your health. Classification of welding fumes is difficult because of varying base materials, coatings, air contaminants and processes. The Internal Agency for Research on Cancer has classified welding fumes as possible carcinogenic to humans (Group 2B).

Acute Effects: Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. May cause sensitisation by skin contact

SECTION 12: Ecology information

12.1 toxicity

Ecology - general: No information provide

Ecology- Water: No information provided

12.2 Persistence and degradability

Persistence and degradability: The welding rods consist of elements that can not degrade any further in the environment.

12.3 Bioaccumulative potential

Bioaccumulative potential: Welding rods contain heavy metals which bio accumulates in the food chain. The following figures are the bio concentration factor (BCF) for the substances on their own.

12.4 Mobility in soil

BCF: Aluminum, BCF: 18

Ecology - Soil: Welding rods are not soluble in water or soil. Particles formed by working welding rods can be transported in the air.

12.5 Results of PBT and vPvB

assessment

Component- N/A

12.6 Other adverse effects

Other adverse effects: In massive form, welding rods present no hazards to the aquatic environment. Welding materials could degrade into components originating from the materials used in the welding process. Avoid exposure to conditions that could lead to accumulation in soils or groundwater. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

No additional information available

15.1.2 National regulations

No additional information available

15.2 Chemical safety assessment

No USA: Under the OSHA Hazard Communication Standard, this product is considered hazardous. This product contains or produces a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.) United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list or are excluded from listing.

SECTION 16: Other information

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Full text of H- and EUH- statements:

Hazard Statements:

H228 – Flammable solid

H261 – In contact with water releases flammable gas.

R-Phrases:

R11 – Highly flammable

R15 – Contact with water liberates extremely flammable gases.

S-Phrases:

S61 – Avoid release to the environment.

*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.