

GHS SDS Date: 03/05/2020

Page 1 of 8

#### SAFETY DATA SHEET

SDS Name: Mulit Sol Multipurpose Solders SolderWeld, Inc.

# SECTION I: Indentification of the substance/mixture and the company 1.1 Product Identifier

## 1.1 Product identifier

Product name: Mulit Sol Multipurpose Solders

## 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 Use of substance	:	For Professional use only Brazing, soldering, and welding products, flux products
	•	Brazing, coldoning, and wording produced, nax produced

## 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

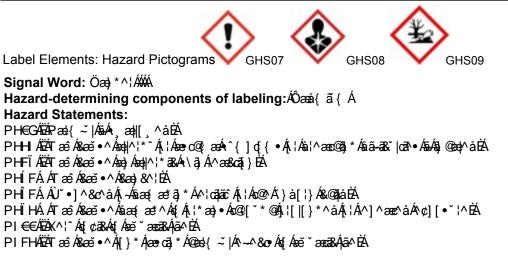
: 001-800-424-9300 (Chemtrec)

## **SECTION 2: Hazards Identification**

## 2.1 Classification of the substance

Hazardous

## 2.2 Label elements



## SAFETY DATA SHEET

Page 2 of 8

#### **Precautionary Statements:**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P234 - Keep only in original container

P260 - Do not breathe dust/fumes.

P263 - Avoid contact during pregnancy/while nursing.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection, face protection

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash.

+P302+P352 thoroughly with soap and water to remove any residue. If a rash develops, call a physician.

P305+P351+P338 – IF IN EYES: Flush with water for at least 15 minutes to remove irritant. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.

P304+P341 –	IF INHALED: Terminate exposure and remove to fresh air. Call physician; advise of chemical composition (section III).
P308+P313 -	IF exposed or concerned: Get medical advice/attention
P310 -	Immediately call a POISON CENTER/doctor
P363 -	Wash contaminated clothing before reuse
P405 -	Store locked up
P501 -	Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3 Other Hazards

No additional information available

## **SECTION 3: Hazards Identification**

## 3.1 Mixture

\*(Hazardous components 1% or greater; Carcinogens 0.1% or greater)

				Density	
Component	CAS Number	OSHA PEL	ACGIH TLV	lbs/in <sup>3</sup> & g/cm <sup>3</sup>	% (optional)
Tin (Sn)	7440-31-5	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	.264 & 7.307	40-49
Zinc (Zn)	7440-66-6	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	.257 & 7.114	27-32
Cadmium (Cd)	7440-43-9	.2 dust / .1 fume	.05 mg/m <sup>³</sup> (Dust&Fume)	.312 & 8.636	19-33

NA = Not Applicable NE = Not Established NAIF = No Applicable Information found

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

Page 3 of 8

**Ingestion:** NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 2-8 oz. (60-240ml) of water. If vomiting occurs naturally, have victim rise mouth with water again. Immediately obtain medical attention and bring a copy of this SDS.

**Skin Contact:** Dust: Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm gently flowing water and non-abrasive soap for 5 minutes. If irritation persists, repeat flushing. Obtain medical advice. Completely decontaminate clothing, shoes and leather goods before reuse or else discard. Molten Metal: Flush contact area to solidify and cool, but do not attempt to remove encrusted material or clothing. Cover burns and seek medical attention immediately.

**Inhalation:** Remove source of contamination or move victim from exposure area to fresh air immediately. If breathing is difficult, trained personnel should administer medical oxygen. DO NOT allow victim to move around unnecessarily. Treat pulmonary edema as a priority, even if no symptoms (i.e. wheezing, coughing, shortness of breath, tec.) are apparent. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. Quickly transport victim to an emergency care facility.

**Eye Contact:** Do not allow victim to rub eye(s). Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, while holding eyelid(s) open. If irritation persists, immediately obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye. Immediately call a POISON CENTER or doctor/ physician.

## 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: CO or dry chemical extinguisher.

#### 5.2 Special hazards arising from the mixture

Flash point & Methods Used: N/A Flammability Limits: Extinguisher Media: Auto Ignition Temperature: N/A (in air, % by volume) LEL: N/A and UEL: N/A CO or dry chemical extinguisher.

DO NOT USE WATER ON MOLTEN METAL:

LARGE FIRES MAY BE FLOODED WITH WATER FROM A DISTANCE

#### 5.3 Advice for firefighters

Precautionary measure fire: Finely divided dust may form explosive mixture with air. Firefighting instructions:

Protection during firefighting: Use NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing if involved in fire.

## **SECTION 6: Accidental release measures**

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

General measures: Solder is solid / recyclable

<ul> <li>Vacuuming is re</li> </ul>	commended for accumulated metal dust from saw/grind operations.
6.1.1 For non-emergency personne	el
Protective equipment: Emergency procedures: Measures in case of dust release:	Wear suitable protective clothing, gloves and eye or face protection. Ventilate area. Avoid contact with skin and eyes. Avoid breathing dust/fume. 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

Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye or face protection. For further

Emergency procedures:

Page 4 of 8 information refer to section 8: "Exposure controls/personal protection". Avoid contact with skin and eyes. Avoid breathing dust/fume. Evacuate unnecessary personnel. Ventilate area.

## 6.2 Environmental precautions

Avoid release to the environment.

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

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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

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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 st	orage, 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: Packaging materials:

## 7.3 Specific end use

Other hot work operations with metals.

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

## 8.1 Control parameters

Respiratory Protection: Use NIOSH-approved breathing apparatus to prevent exposure to dusts and fumes.

Store in a well-ventilated area.

Keep only in original container.

Eye Protection: Ventilation:	Approved safety glasses/welding goggles, appropriate to your procedure, should be worn. Local Exhaust: YES; Mechanical: YES Special: Conform to your regulatory statutes.
Other:	Standard protective equipment used in soldering (/applicable) operations. *Protective gloves are recommended, especially for high temperature applications to
	prevent burns. *Conform to all local, state, federal regulations.

#### 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.

Materials for protective clothing: Hand protection: Eye protection: Skin and body protection: Respiratory protection: Page 5 of 8 Protective clothing. Wear suitable protective clothing Protective gloves Safety glasses. Wear suitable protective clothing Use NIOSH-approved breathing apparatus to prevent exposure to dusts and fumes.



Environmental exposure controls:

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Boiling Point:	Cd @ 1409°F / 765°C and Zn @ 1665°F / 907°C
Melting Point:	265 to 316 °C / 509 to 600 °F
Vapor Pressure (mm Hg.): Vapor Density (AIR = 1): N/A Density: Solubility in Water: Evaporation Rate (Butyl Acetate = 1): Appearance and Odor:	CADMIUM ONLY: Health Significance ONLY >500°C .3027 lbs/cu in or 8.377g/ml 0 (solid) N/A Lustrous, silver metal; odorless / various shapes and sizes.

#### 9.2 Other information

No additional information available

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Stability: Stable

Safe under normal conditions

#### **10.3 Possibility of hazardous reactions**

Wet or moist ingot(s) WILL present an explosion hazard when submerged in molten solder.

#### 10.4 Conditions to avoid

None.

#### 10.5 Incompatible materials

Strong Acids, Strong Alkalis

#### **10.6 Hazardous decomposition products**

None; Hazardous Polymerization will not occur

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Cadmium (Cd): Fume produces metal fume fever which may result in severe tracheobronchitis, pneumonitus, pulmonary edema. Suspected acute inhalation exposure to Cadmium must be treated for pulmonary edema (throat dryness, cough, headache, vomiting, chest pains, and chills) by a physician. Delay until onset of pulmonary involvement may result in death. Cadmium is transported via blood and stored in liver and kidneys. Can cause kidney damage. Chronic overexposure to Cadmium has been reported to cause an increased incidence of cancer of the prostrate in men.

Zinc (Zn): Excessive inhalation of zinc oxide fumes may produce symptoms known as "zinc shakes" which are flu-like and usually cease when the individual is removed from the source.

## **SECTION 12: Ecology information**

## 12.1 toxicity

Ecology - general:	Not established
Ecology- Water:	Not established

## **12.2** Persistance and degradability

Persistence and degradability:	Not established	
12.3 Bioaccumulative potential		
Bioaccumulative potential:	Not established	
12.4 Mobility in soil		
Ecology - Soil:	Not established	
12.5 Results of PBT and vPvB ass	sessment	
Not Applicable		
12.6 Other adverse effects		

*0 = Insignificar	nt 1 = Slight	2 = Moderate	3 = High	4 = Extreme
	Health	Flammability	Reactivity	Special
NFPA Rating	1	0	0	0
HMIS Rating	1	0	0	0

#### **SECTION 13: Disposal consideration**

#### **13.1 Waste treatment methods**

- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Disposal must be made according to official regulations. Dispose of according to federal, state, local, international, and OSHA regulations.

#### Page 7 of 8

#### SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

#### **Ground - DOT Proper Shipping Name: Solder** Not regulated for transport by US DOT.

#### **Air - IATA Proper Shipping Name: Solder** Not regulated for air transport by IATA.

14.1 UN number

UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)

## 14.2 UN proper shipping name

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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) IMDG	NotApplicable
Transport hazard class(es)	NotApplicable
Transport hazard class(es) ADN	NotApplicable
Transport hazard class(es) RID	NotApplicable
Transport hazard class(es)	Not Applicable
14.4 Packing group	
Packing group (ADR)	Not applicable

Not applicable

Not applicable

Not applicable

Not applicable Not applicable

Packing group (ADR)	
Packing group (IMDG	)
Packing group (IATA)	
Packing group (ADN)	
Packing group (RID)	

Not applicable Not applicable Not applicable Not applicable

## **SECTION 15: Regulatory information**

SARA Title III Program:

 This product contains the following toxic chemicals subject to the reporting requirements of EPCRA of 1986 and 40 CFR 372.

CHEMICAL NAME	CAS NO.	% / WEIGHT
Zinc (Zn) – Fume & Dust	7440-66-6	27 – 32%
Cadmium (Cd)	7440-43-9	19 – 33%

## SECTION XVI: OTHER INFORMATION

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

#### GOOD HOUSEKEEPING PROCEDURES SHOULD BE MAINTAINED. PERSONNEL SHOULD WASH THOROUGHLY BEFORE SMOKING OR EATING FOOD AND DRINK SHOULD NOT BE CONSUMED, TOBACCO PRODUCTS USED, OR COSMETICS APPLIED IN AREAS WHERE EXPOSURES EXIST.

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

Figure 2 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

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