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<b>SECTION 1: Identifica</b>	ation		
1.1. Identification			
Product form	: S	ubstance	
Trade name	: Si	Ivabrite Solder Paste	
Product code	: A	00000228	
1.2. Recommended u	se and restrictions on us	Se	
No additional information av	ailable		
1.3. Supplier			
No additional information av	ailable		
1.4. Emergency telep	hone number		
No additional information av	ailable		
	) identification		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mixture			
<b>GHS-US</b> classification			
Acute toxicity (oral), Category 4	H302	Harmful if swallowed.	
Skin corrosion/irritation, Category 1B	H314	Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.	
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs through prolonged or repeated exposure.	
Full text of H statements : see section 16			
2.2. GHS Label elements, including precautionary statements			
GHS-US labelling			

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Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H302 - Harmful if swallowed.</li> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H318 - Causes serious eye damage.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell</li> <li>P301+P330 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a poison center/doctor</li> <li>P314 - Get medical advice/attention if you feel unwell.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label)</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation</li> </ul>

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<ul><li>ccording to Federal Register / Vol. 77, No. 58 / Mo</li><li>2.3. Other hazards which do not res</li></ul>			
No additional information available			
2.4. Unknown acute toxicity (GHS U	S)		
Not applicable			
SECTION 3: Composition/inform	ation on ingradiants		
3.1. Substances			
lame	: SILVABRITE SOLDER PASTE		
Name		Product identifier	%
Petrolatum		(CAS-No.) 8009-03-8	50 - 60
Zinc chloride		(CAS-No.) 7646-85-7	19 - 25
Ethylene glycol		(CAS-No.) 107-21-1	8 - 12
ull text of hazard classes and H-statement	s : see section 16		
.2. Mixtures			
lot applicable			
ECTION 4: First-aid measures			
.1. Description of first aid measure	25		
irst-aid measures general	: Call a physician immediately.		
irst-aid measures after inhalation	: Remove person to fresh air and keep	comfortable for breathing.	
irst-aid measures after skin contact		off immediately all contaminated clothing	. Call a physician
	immediately.	, ,	
irst-aid measures after eye contact		<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.</li> </ul>	
irst-aid measures after ingestion	: Rinse mouth. Do not induce vomiting	. Call a physician immediately.	
.2. Most important symptoms and	effects (acute and delayed)		
ymptoms/effects after skin contact	: Burns.		
Symptoms/effects after eye contact	: Serious damage to eyes.		
Symptoms/effects after ingestion	: Burns.		
	d special treatment, if necessary		
reat symptomatically.			
SECTION 5: Fire-fighting measur	es		
.1. Suitable (and unsuitable) exting	guishing media		
Suitable extinguishing media	: Dry powder.		
Insuitable extinguishing media	: Water.		
.2. Specific hazards arising from the			
Leactivity		rmal conditions of use storage and tran	port
	•	rmal conditions of use, storage and trans	sport.
5.3. Special protective equipment a			
Protection during firefighting		suitable protective equipment. Self-cont	ained breathing
	apparatus. Complete protective cloth	ing.	
ECTION 6: Accidental release n	neasures		
.1. Personal precautions, protectiv	e equipment and emergency procedures		
5.1.1. For non-emergency personnel	· Vantilate spillage area. Do not brooth	o duct/fumo/goo/mint/vonouro/oprov.	aid contact with
mergency procedures	skin and eyes.	e dust/fume/gas/mist/vapours/spray. Av	Did Contact with
.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without refer to section 8: "Exposure controls	suitable protective equipment. For furthe /personal protection".	er information
.2. Environmental precautions			
void release to the environment.			
.3. Methods and material for conta	inment and cleaning up		
Aethods for cleaning up	: Mechanically recover the product.		
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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. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.

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

#### 8.1. **Control parameters** Ethylene glycol (107-21-1) ACGIH ACGIH TWA (ppm) 25 ppm (vapor fraction) ACGIH STEL (mg/m<sup>3</sup>) ACGIH 10 mg/m<sup>3</sup> (inhalable particulate matter, aerosol only) ACGIH ACGIH STEL (ppm) 50 ppm (vapor fraction) Zinc chloride (7646-85-7) ACGIH TWA (mg/m<sup>3</sup>) 1 mg/m<sup>3</sup> (fume) ACGIH ACGIH ACGIH STEL (mg/m<sup>3</sup>) 2 mg/m<sup>3</sup> (fume) OSHA PEL (TWA) (mg/m<sup>3</sup>) OSHA 1 mg/m<sup>3</sup> (fume) 50 mg/m<sup>3</sup> (fume) IDLH US IDLH (mg/m<sup>3</sup>) NIOSH NIOSH REL (TWA) (mg/m<sup>3</sup>) 1 mg/m<sup>3</sup> (fume) NIOSH NIOSH REL (STEL) (mg/m<sup>3</sup>) 2 mg/m<sup>3</sup> (fume) Petrolatum (8009-03-8) 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.

#### Individual protection measures/Personal protective equipment 8.3.

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

<b>SECTION 9: Physical and</b>	chemical properties	
9.1. Information on basic pl	hysical and chemical properties	
Physical state	: Solid	
Colour	: No data available	
Odour	: No data available	
Odour threshold	: No data available	
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рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

### 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

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).

### 10.5. Incompatible materials

No additional information available

### **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 (oral)	: Oral: Harmful if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
ATE US (oral)	500 mg/kg bodyweight	
Ethylene glycol (107-21-1)		
LD50 oral rat	4700 mg/kg	
LD50 dermal rat	10600 mg/kg	
ATE US (oral)	4700 mg/kg bodyweight	
ATE US (dermal)	10600 mg/kg bodyweight	
Zinc chloride (7646-85-7)		
LD50 oral rat	1100 mg/kg	
LC50 inhalation rat (mg/l)	<= 1975 mg/m <sup>3</sup> (Exposure time: 10 min)	
ATE US (oral)	1100 mg/kg bodyweight	

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Petrolatum (8009-03-8)	
LD50 dermal rabbit	3600 mg/kg
ATE US (dermal)	3600 mg/kg bodyweight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ecology - general	Before neutralisation, the product may represent a danger to aquatic organisms.
Ethylene glycol (107-21-1)	
LC50 fish 1	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	14 - 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

Ethylene glycol (107-21-1)	
Log Pow	-1.93
Zinc chloride (7646-85-7)	
BCF fish 1	16000

12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ethylene glycol (107-21-1)	
1990 Hazardous Air Pollutant (Clean Air Act)	Yes

SECTION 13: Disposal consideration	ons
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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### 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

Ethylene glycol (107-21-1)		
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	
Zinc chloride (7646-85-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	1000 lb	
Petrolatum (8009-03-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

### 15.2. International regulations

Ethylene glycol (107-21-1)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	
Zinc chloride (7646-85-7)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	
Petrolatum (8009-03-8)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	

#### 15.3. US State regulations

**WARNING:** This product can expose you to Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Ethylene glycol(107- 21-1)		х				8700 μg/day oral; ingested

Component	State or local regulations
Ethylene glycol(107-21-1)	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

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Component	State or local regulations
Zinc chloride(7646-85-7)	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
Petrolatum(8009-03-8)	

### **SECTION 16: Other information**

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#### Full text of H-statements:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.

### SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product