

## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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### Silver Solder Flux

Revision 1

Revision date 2015-08-25

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name	Silver Solder Flux
Product code	FO380022, FO380050

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU15] Manufacture of fabricated metal products, except machinery and equipment; [PC38] Welding and soldering products (with flux coatings or flux cores.), flux products;
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##### 1.3. Details of the supplier of the safety data sheet

Company	Weldability   Sif
Address	Peters House, The Orbital Centre, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1ET. UK.
Web	www.weldability-sif.com
Telephone	0870 330 7757
Fax	0800 970 7757
Email	service@weldability-sif.com
Email address of the competent person	msds@weldability-sif.com

##### 1.4. Emergency telephone number

Emergency telephone number	0870 330 7757
Company	Weldability Sif 8.30 - 5.30 Mon - Fri

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	T; R60-61C; R34 Xn; R20/21/22 Symbols: T: Toxic.
Main hazards	Harmful by inhalation, in contact with skin and if swallowed. Causes burns. May impair fertility. May cause harm to the unborn child.
2.1.2. Classification - EC 1272/2008	Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; Repr. 1B: H360Fd;

##### 2.2. Label elements

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## 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled. Repr. 1B: H360Fd - May damage fertility. Suspected of damaging the unborn child.
Precautionary Statement: Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water/ . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P312 - Call a POISON CENTER/doctor/ if you feel unwell. P321 - Specific treatment (see on this label). P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Potassium Difluorodihydroxyborate		85392-66-1	286-925-2		30 - 40%		
Dipotassium Tetraborate		1332-77-0	215-575-5		10 - 20%	Xn; R62-63	
Potassium Tetrafluoroborate		14075-53-7	237-928-2		10 - 20%		
Potassium fluoride	009-005-00-2	7789-23-3	232-151-5		10 - 20%	T; R23/24/25	
boric acid	005-007-00-2	10043-35-3	233-139-2		10 - 20%	Repr. Cat. 2; R60-61	
Potassium bifluoride	009-008-00-9	7789-29-9	232-156-2		0.5 - 1%	T; R25 C; R34	

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## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Potassium fluoride	009-005-00-2	7789-23-3	232-151-5		10 - 20%	Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301;	
boric acid	005-007-00-2	10043-35-3	233-139-2		10 - 20%	Repr. 1B: H360FD;	
Potassium bifluoride	009-008-00-9	7789-29-9	232-156-2		0.5 - 1%	Acute Tox. 3: H301; Skin Corr. 1B: H314;	

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist. If unconscious place in the recovery position. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. If you feel unwell, seek medical advice (show the label where possible).
Skin contact	Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING. DO NOT DRINK. If swallowed, seek medical advice immediately and show this container or label. Call a POISON CENTER/doctor/ /if you feel unwell.

## General information

	Symptoms of poisoning may occur after several hours; therefore medical observation is advised for at least 48 hours after the incident.
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## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Water.
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## 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

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

	Ensure adequate ventilation of the working area. Wear suitable respiratory equipment when necessary.
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## 6.2. Environmental precautions

	Do not allow product to enter drains. Do not allow runoff water to enter sewers or drains. Advise local authorities if large spills cannot be contained.
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## 6.3. Methods and material for containment and cleaning up

	Dispose of in compliance with all section 13.
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## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

	Avoid formation of dust. Ensure adequate ventilation of the working area.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Advised preservation period under normal conditions is 6 months. Keep container tightly closed. Keep container in a well-ventilated place. Keep locked up.
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## SECTION 8: Exposure controls/personal protection

## 8.2. Exposure controls

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## 8.2. Exposure controls



8.2.1. Appropriate engineering controls	Keep away from foodstuffs, beverages and feed.
8.2.2. Individual protection measures	Avoid contact with eyes and skin. Remove contaminated clothing. Wash all contaminated clothing before reuse.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Wear suitable gloves.
Skin protection - Other	After contact with skin, wash immediately with plenty of water.
Respiratory protection	Suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance	Solid/Powder
Colour	White
Odour	Odourless
Solubility	Slightly soluble in water

## 9.2. Other information

Bulk Density	0.85 g/cm <sup>3</sup>
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## SECTION 10: Stability and reactivity

## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.5. Incompatible materials

	Strong acids.
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## 10.6. Hazardous decomposition products

	Hydrogen fluoride.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity	Harmful if swallowed.
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	No irritation expected.

## SECTION 12: Ecological information

## 12.2. Persistence and degradability

	Water endangering.
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## Further information

	Harmful to aquatic organisms. Do not allow product to enter drains. Do not flush into surface water.
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## SECTION 13: Disposal considerations

## General information

	Dispose of in compliance with all local and national regulations.
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## Disposal methods

Do not empty into drains. Do not mix with household rubbish.

## SECTION 14: Transport information

## Hazard pictograms



## 14.1. UN number

UN3288

## 14.2. UN proper shipping name

TOXIC SOLID, INORGANIC, N.O.S.

## 14.3. Transport hazard class(es)

ADR/RID	6.1
Subsidiary risk	-
IMDG	6.1
Subsidiary risk	-
IATA	6.1
Subsidiary risk	-

## 14.4. Packing group

Packing group III

## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## ADR/RID

Hazard ID 60

## IMDG

EmS Code F-A S-A

## IATA

Packing Instruction (Cargo)	677
Maximum quantity	200 kg
Packing Instruction (Passenger)	670
Maximum quantity	100 kg

## SECTION 15: Regulatory information

## Further information

No further information.

## SECTION 16: Other information

## Other information

Revision	This document differs from the previous version in the following areas: 2 - 2.1.2. Classification - EC 1272/2008. 2 - Signal Word. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response.
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## Other information

	<p>2 - Precautionary Statement: Storage.  2 - Precautionary Statement: Disposal.  12 - 12.1. Toxicity.  15 - Further information.  15 - 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.</p>
Text of risk phrases in Section 3	<p>R20/21 - Harmful by inhalation and in contact with skin.  R22 - Harmful if swallowed.  R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.  R25 - Toxic if swallowed.  R34 - Causes burns.  R36/38 - Irritating to eyes and skin.  R60 - May impair fertility.  R61 - May cause harm to the unborn child.  R62 - Possible risk of impaired fertility.  R63 - Possible risk of harm to the unborn child.</p>
Text of Hazard Statements in Section 3	<p>Acute Tox. 3: H301 - Toxic if swallowed.  Acute Tox. 3: H311 - Toxic in contact with skin.  Acute Tox. 3: H331 - Toxic if inhaled.  Repr. 1B: H360FD - May damage fertility. May damage the unborn child.  Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p>

## General information

	<p>This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. The information supplied in this safety data sheet is designed only as guidance for safe use, storage and handling of the product. This information relates only to the specific goods listed and may not be valid for such material used in combination with any other product(s).</p>
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