

## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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### Aluminium Flux

Revision 1

Revision date 2015-11-13

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

##### 1.1. Product identifier

Product name	Aluminium Flux
Product code	FO140050

##### 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	C; R34 Xn; R20/21/22-48/20/22 Xi; R37 N; R50/53 Symbols: C: Corrosive. N: Dangerous for the environment.
Main hazards	Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to respiratory system. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.1.2. Classification - EC 1272/2008	Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Corr. 1B: H314; Acute Tox. 4: H332; STOT SE 3: H335; Aquatic Chronic 1: H410;


##### 2.2. Label elements

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## 2.2. Label elements

<b>Hazard pictograms</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Acute Tox. 4: H332 - Harmful if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
<b>Precautionary Statement: Prevention</b>	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. 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. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of water/ . P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P310 - Immediately call a POISON CENTER/doctor/ . P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P321 - Specific treatment (see on this label). P330 - Rinse mouth. P363 - Wash contaminated clothing before reuse. P391 - Collect spillage.
<b>Precautionary Statement: Storage</b>	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
<b>Precautionary Statement: Disposal</b>	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.
Zinc chloride (Zinc chloride, fume)	030-003-00-2	7646-85-7	231-592-0			C; R34 Xn; R22 N; R50/53	
Lithium chloride		7447-41-8	231-212-3			Xn; R22 Xi; R37/38	
Aluminum Potassium Fluoride		60304-36-1	262-153-1			Xn; R48/20/22 Xi; R36	
Ammonium fluoride	009-006-00-8	12125-01-8	235-185-9			T; R23/24/25	

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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.
Zinc chloride (Zinc chloride, fume)	030-003-00-2	7646-85-7	231-592-0			Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	
Ammonium fluoride	009-006-00-8	12125-01-8	235-185-9			Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301;	

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	No irritation expected. Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING. DO NOT DRINK. Seek medical attention.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Carbon dioxide (CO2). Extinguishing media. Water spray.
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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

	Not normally required.
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## 6.2. Environmental precautions

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

	Dispose of in compliance with all local regulations. Refer to disposal considerations in Section 13. Avoid formation of dust.
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## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

	Handle and open container with care. Ensure adequate ventilation of the working area. Keep container tightly closed and dry.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Advised preservation period under normal conditions is 6 months.
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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1. Exposure Limit Values

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## 8.1.1. Exposure Limit Values

Zinc chloride (Zinc chloride, fume)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2
	WEL 8-hr limit mg/m3 total - inhalable dust: -	WEL 15 min limit mg/m3 total - inhalable dust: -
	WEL 8-hr limit mg/m3 total - respirable dust: -	WEL 15 min limit mg/m3 total - respirable dust: -

## 8.2. Exposure controls

	 
8.2.1. Appropriate engineering controls	Keep away from foodstuffs, beverages and feed.
8.2.2. Individual protection measures	Remove contaminated clothing.
Eye / face protection	Avoid contact with eyes. Wear eye/face protection.
Skin protection - Handprotection	Wear suitable gloves. Wash hands after handling the product.
Respiratory protection	Not normally required.

## 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

## SECTION 10: Stability and reactivity

### 10.2. Chemical stability

	Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

	No Significant Hazard.
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### 10.6. Hazardous decomposition products

	None.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	No sensitization effects reported.

## SECTION 12: Ecological information

### Further information

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

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## Disposal methods

	This material and its container must be disposed of in a safe way. Local and national regulations. Do not mix with household rubbish.
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## SECTION 14: Transport information

## Hazard pictograms

	 
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## 14.1. UN number

	UN3290
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## 14.2. UN proper shipping name

	TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.
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## 14.3. Transport hazard class(es)

ADR/RID	6.1
Subsidiary risk	8
IMDG	6.1
Subsidiary risk	8
IATA	6.1
Subsidiary risk	8

## 14.4. Packing group

Packing group	II
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## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## ADR/RID

Hazard ID	68
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## IMDG

EmS Code	F-A S-B
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## IATA

Packing Instruction (Cargo)	675
Maximum quantity	50 kg
Packing Instruction (Passenger)	668
Maximum quantity	15 kg

## SECTION 15: Regulatory 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.
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## Other information

	<p>2 - Precautionary Statement: Response.  2 - Precautionary Statement: Storage.  2 - Precautionary Statement: Disposal.  12 - 12.1. Toxicity.</p>
Text of risk phrases in Section 3	<p>R22 - Harmful if swallowed.  R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.  R34 - Causes burns.  R36 - Irritating to eyes.  R37/38 - Irritating to respiratory system and skin.  R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
Text of Hazard Statements in Section 3	<p>Acute Tox. 4: H302 - Harmful if swallowed.  Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.  STOT SE 3: H335 - May cause respiratory irritation.  Aquatic Acute 1: H400 - Very toxic to aquatic life.  Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  Acute Tox. 3: H301 - Toxic if swallowed.  Acute Tox. 3: H311 - Toxic in contact with skin.  Acute Tox. 3: H331 - Toxic if inhaled.</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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