

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Sif Autobronze

Revision 2

Revision date 2016-10-04

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

1.1. Product identifier

Product name	Sif Autobronze
Product code	RS41[24/32][01/25/50]

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	N; R50/53 Symbols: N: Dangerous for the environment.
Main hazards	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.1.2. Classification - EC 1272/2008	Repr. 1B: H360FD; Aquatic Chronic 1: H410;

2.2. Label elements

Hazard pictograms	
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2.2. Label elements

Signal Word	Danger
Precautionary Statement: Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P308+P313 - IF exposed or concerned: Get medical advice/attention. P391 - Collect spillage.
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.
Copper (Copper fume)		7440-50-8	231-159-6		50 - 60%		
zinc powder - zinc dust (stabilised).	030-001-01-9	7440-66-6	231-175-3		30 - 40% N; R50/53		
boric acid.	005-007-00-2	10043-35-3	233-139-2		1 - 10% Repr. Cat. 2; R60-61		
disodium tetraborate, anhydrous. (Disodium tetraborate, anhydrous)	005-011-00-4	1330-43-4	215-540-4		1 - 10% T; R60-61		
Silicon		7440-21-3	231-130-8		0 - 0.5%		

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Copper (Copper fume)		7440-50-8	231-159-6		50 - 60%		
zinc powder - zinc dust (stabilised).	030-001-01-9	7440-66-6	231-175-3		30 - 40% Aquatic Acute 1: H400; Aquatic Chronic 1: H410;		
boric acid.	005-007-00-2	10043-35-3	233-139-2		1 - 10% Repr. 1B: H360FD;		
disodium tetraborate, anhydrous. (Disodium tetraborate, anhydrous)	005-011-00-4	1330-43-4	215-540-4		1 - 10% Repr. 1B: H360Fd;		

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.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Avoid contact with eyes.
Skin contact	No irritation expected.
Ingestion	DO NOT INDUCE VOMITING. DO NOT DRINK. If swallowed, seek medical advice immediately and show this container or label.

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

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6.1. Personal precautions, protective equipment and emergency procedures

	Avoid formation of dust. Ensure adequate ventilation of the working area.
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6.2. Environmental precautions

	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 local regulations. Refer to disposal considerations in Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Handle and open container with care. Wear suitable gloves.
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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 and dry.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Copper (Copper dusts and mists (as Cu))	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: -
Copper (Copper fume)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 0.2
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	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: -
disodium tetraborate, anhydrous. (Disodium tetraborate, anhydrous)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	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: -
Silicon	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: -
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total inhalable dust: 10	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: 4	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.

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8.2. Exposure controls

8.2.2. Individual protection measures	Remove contaminated clothing. Wear suitable protective equipment.
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	In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid/Powder
Colour	White
Odour	Characteristic
Melting point	875 - 895 °C
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

	Hydrogen fluoride.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	May cause allergic reactions in susceptible people.
Serious eye damage/irritation	No irritation expected.
Respiratory or skin sensitisation	May cause sensitisation by inhalation. Inhalation may cause nausea and vomiting. May cause drowsiness or dizziness.

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

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

	UN3288
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14.2. UN proper shipping name

	TOXIC SOLID, INORGANIC, N.O.S.
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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
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14.5. Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

ADR/RID

Hazard ID	60
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IMDG

EmS Code	F-A S-A
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IATA

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

SECTION 15: Regulatory information

SECTION 16: Other information

Other information

Text of risk phrases in Section 3	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R60 - May impair fertility. R61 - May cause harm to the unborn child.
Text of Hazard Statements in Section 3	Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Repr. 1B: H360FD - May damage fertility. May damage the unborn child. Repr. 1B: H360Fd - May damage fertility. Suspected of damaging the unborn child.

General information

	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).
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