

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/6

Sifsteel Stainless 316L

Revision 1

Revision date 2015-11-16

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

1.1. Product identifier

Product name	Sifsteel Stainless 316L
Product code	RO21[08/10/12/16/24/32][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	T; R48/23 Xn; R40 Xi; R43 Symbols: T: Toxic.
Main hazards	Limited evidence of a carcinogenic effect. May cause sensitisation by skin contact. Toxic: danger of serious damage to health by prolonged exposure through inhalation.
2.1.2. Classification - EC 1272/2008	Skin Sens. 1: H317; Carc. 2: H351; STOT RE 1: H372;

2.2. Label elements

Sifsteel Stainless 316L

Revision 1

Revision date 2015-11-16

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Sens. 1: H317 - May cause an allergic skin reaction. Carc. 2: H351 - Suspected of causing cancer . STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .
Precautionary Statement: Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. 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 no eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ . P308+P313 - IF exposed or concerned: Get medical advice/attention. P314 - Get medical advice/attention if you feel unwell. P321 - Specific treatment (see on this label). P333+P313 - If skin irritation or rash occurs: 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.
Chromium		7440-47-3	231-157-5				
Nickel	028-002-00-7	7440-02-0	231-111-4			Carc. Cat. 3; R40 T; R48/23 R43	
Silicon		7440-21-3	231-130-8				
Copper (Copper fume)		7440-50-8	231-159-6				
Carbon (Graphite)		7440-44-0	231-153-3				
Phosphorus, red (Phosphorus, yellow)	015-002-00-7	7723-14-0	231-768-7			F; R11 R16 R52/53	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Chromium		7440-47-3	231-157-5				
Nickel	028-002-00-7	7440-02-0	231-111-4			Carc. 2: H351; STOT RE 1: H372; Skin Sens. 1: H317;	

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	Avoid contact with eyes. Seek medical attention.
Skin contact	Wash off immediately with plenty of soap and water.

Sifsteel Stainless 316L

Revision 1

Revision date 2015-11-16

4.1. Description of first aid measures

Ingestion	If swallowed, seek medical advice immediately and show this container or label.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Extinguishing media. Carbon dioxide (CO2). Dry chemical. For large fires: Alcohol resistant foam. Water jet.
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5.3. Advice for firefighters

	Self-contained breathing apparatus. Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Avoid formation of dust. Ensure adequate ventilation of the working area.
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6.3. Methods and material for containment and cleaning up

	Sweep up. No specific clean up requirements. Refer to disposal considerations in Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Wear suitable gloves.
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7.2. Conditions for safe storage, including any incompatibilities

	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

Sifsteel Stainless 316L

Revision 1

Revision date 2015-11-16

8.1.1. Exposure Limit Values

Carbon (Graphite)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total 10 inhalable dust: WEL 8-hr limit mg/m3 total 4 respirable dust:	WEL 8-hr limit mg/m3: - WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Chromium	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 0.5 WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Copper (Copper dusts and mists (as Cu))	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 1 WEL 15 min limit mg/m3: 2 WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Copper (Copper fume)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 0.2 WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Phosphorus, red (Phosphorus, yellow)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 8-hr limit mg/m3: 0.1 WEL 15 min limit mg/m3: 0.3 WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust:
Silicon	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total 10 inhalable dust: WEL 8-hr limit mg/m3 total 4 respirable dust:	WEL 8-hr limit mg/m3: - WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total - inhalable 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	Use appropriate personal protective equipment.
Eye / face protection	Wear suitable protective clothing and eye/face protection.
Skin protection - Handprotection	Wear suitable gloves.
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

Sifsteel Stainless 316L

Revision 1
Revision date 2015-11-16

9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	Brown
Odour	Characteristic
Melting point	1440 °C

SECTION 10: Stability and reactivity

10.2. Chemical stability

	Stable under normal conditions.
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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 in susceptible persons.
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

	Avoid release to the environment. Refer to special instructions/Safety data sheets.
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SECTION 13: Disposal considerations

General information

	This material and its container must be disposed of in a safe way.
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Disposal methods

	Dispose of in compliance with all. local and national regulations.
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SECTION 14: Transport information

14.1. UN number

	The product is not classified as dangerous for carriage.
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14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
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14.4. Packing group

	The product is not classified as dangerous for carriage.
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14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
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14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	The product is not classified as dangerous for carriage.
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SECTION 15: Regulatory information

Sifsteel Stainless 316L

Revision 1

Revision date 2015-11-16

SECTION 16: Other information

Other information

Revision	<p>This document differs from the previous version in the following areas:</p> <ul style="list-style-type: none"> 2 - 2.1.2. Classification - EC 1272/2008. 2 - Signal Word. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Storage. 2 - Precautionary Statement: Disposal.
Text of risk phrases in Section 3	<ul style="list-style-type: none"> R11 - Highly flammable. R16 - Explosive when mixed with oxidising substances. R40 - Limited evidence of a carcinogenic effect. R43 - May cause sensitisation by skin contact. R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Text of Hazard Statements in Section 3	<ul style="list-style-type: none"> Skin Sens. 1: H317 - May cause an allergic skin reaction. Carc. 2: H351 - Suspected of causing cancer . STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .

General information

	<p>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). 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.</p>
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