

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Sifmig 316LSI

Revision 0

Revision date 2011-02-28

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

1.1. Product identifier

Product name	Sifmig 316LSI
Product code	WO21[06/08/10/12][07/40/12/15]

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. 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 to 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
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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EINECS No.	REACH Registration Number	Conc. (%w/w)	Classification
Iron		7439-89-6	231-096-4		40 - 50%	
Chromium (Chromium)		7440-47-3	231-157-5		10 - 20%	
Nickel	028-002-00-7	7440-02-0	231-111-4		10 - 20%	Carc. Cat. 3; R40 T; R48/23 R43
Molybdenum		7439-98-7	231-107-2		1 - 10%	
Manganese		7439-96-5	231-105-1		1 - 10%	
Silicon (Silicon total inhalable dust)		7440-21-3	231-130-8		1 - 10%	
Copper (Copper fume)		7440-50-8	231-159-6		0 - 0.5%	
Carbon (Graphite total inhalable dust)		7440-44-0	231-153-3		0 - 0.5%	
Phosphorus, red (Phosphorus, yellow)	015-002-00-7	7723-14-0	231-768-7		0 - 0.5%	F; R11 R16 R52-53
sulfur	016-094-00-1	7704-34-9	231-722-6		0 - 0.5%	Xi; R38

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.
Ingestion	If swallowed, seek medical advice immediately and show this container or label.

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

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8.1. Control parameters

8.1.1. Exposure Limit Values

Carbon (Graphite respirable)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 4 WEL 15 min limit mg/m3: -
Carbon (Graphite total inhalable dust)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: -
Chromium (Chromium)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 0.5 WEL 15 min limit mg/m3: -
Copper (Copper dusts and mists (as Cu))	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 1 WEL 15 min limit mg/m3: 2
Copper (Copper fume)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 0.2 WEL 15 min limit mg/m3: -
Phosphorus, red (Phosphorus, yellow)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 0.1 WEL 15 min limit mg/m3: 0.3
Silicon (Silicon respirable dust)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 4 WEL 15 min limit mg/m3: -
Silicon (Silicon total inhalable dust)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: -

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

State	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

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10.6. Hazardous decomposition products

None.

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.

SECTION 13: Disposal considerations

General information

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

Disposal methods

Dispose of in compliance with all. local and national regulations.

SECTION 14: Transport information

ADR/RID

The product is not classified as dangerous for carriage.

IMDG

The product is not classified as dangerous for carriage.

IATA

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

Labelling

Symbols

T: Toxic.



Risk phrases

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.

Safety phrases

S24 - Avoid contact with skin.
 S36/37 - Wear suitable protective clothing and gloves.

SECTION 16: Other information

Other information

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Other information

Text of risk phrases in Section 3

R11 - Highly flammable.
R16 - Explosive when mixed with oxidising substances.
R38 - Irritating to skin.
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.

General information

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.