



**SAFETY DATA SHEET**  
according to 1907/2006/EC, Article 31

**Sifsteel A31**

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	Sifsteel A31
Product code	RA31[16/24]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. <a href="http://www.weldability-sif.com">www.weldability-sif.com</a>
Telephone	0870 330 7757
Fax	0800 970 7757
Email	<a href="mailto:service@weldability-sif.com">service@weldability-sif.com</a>
Email address of the competent person	<a href="mailto:msds@weldability-sif.com">msds@weldability-sif.com</a>

**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**

Main hazards	No Significant Hazard
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**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

## Sifsteel A31

Revision 0  
Revision date 2011-02-28

## 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		80 - 90%	
Manganese		7439-96-5	231-105-1		1 - 10%	
Silicon (Silicon total inhalable dust)		7440-21-3	231-130-8		0.5 - 1%	
Molybdenum		7439-98-7	231-107-2		0.5 - 1%	
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 (CO <sub>2</sub> ). 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 A31

Revision 0  
Revision date 2011-02-28

## 8.1. Control parameters

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: -
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	1450 °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

## Sifsteel A31

Revision 0  
Revision date 2011-02-28

## 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**

## ADR/RID

	The product is not classified as dangerous for carriage.
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## IMDG

	The product is not classified as dangerous for carriage.
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## IATA

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

## Labelling

## Risk phrases

	No Significant Hazard.
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**SECTION 16: Other information**

## Other information

## Text of risk phrases in Section 3

	R11 - Highly flammable. R16 - Explosive when mixed with oxidising substances. R38 - Irritating to skin. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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## 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.
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