

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

**1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

Product Name Sifsteel No11  
Product code RO11[16/24/32/48][01/25/50]  
CAS No. Not applicable.  
EC No. Not applicable.  
REACH Registration No. Not known.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified Use(s) 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  
Uses Advised Against None known.

**1.3 Details of the supplier of the safety data sheet**

Supplier  
Company Identification Weldability Sif  
Address of Supplier Peters House,  
Orbital Centre,  
Icknield Way,  
Letchworth Garden City,  
Hertfordshire, UK.  
Postal code SG6 1ET  
Telephone: +44 (0) 870 330 7757  
Fax +44 (0) 800 970 7757  
E-mail service@weldability-sif.com

**2. SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Not classified as dangerous for supply/use.

**2.2 Label elements**

According to Regulation (EC) No. 1272/2008 (CLP)  
Product Name Sifsteel No11  
Hazard Pictogram(s) None.  
Signal Word(s) None.  
Hazard Statement(s) None.  
EUH208: Contains: (nickel) May produce an allergic reaction.  
Precautionary Statement(s) None.

**2.3 Other hazards**

Welding fumes: May result in discomfort such as dizziness, nausea, or dryness of irritation of nose, throat or eyes. Dust may have irritant effect on skin, eyes and air passages.

**2.4 Additional Information**

None.

**3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Product as supplied: Welding rod

**3.1 Substances**

Not applicable.

**3.2 Mixtures**

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Iron	7439-89-6	231-096-4 01-2119462838-24-0000	80 - 95	Not classified	
Manganese	7439-96-5	231-105-1	0.5 - 1.0	Not classified	
Nickel	7440-02-0	231-111-4 01-2119438727-29-0000	0.0-0.5	Skin Sens. 1 H317 Carc. 2 H351 STOT RE 1 H372	GHS08 GHS07
Carbon	7440-44-0	231-153-3	0.0 - 0.5	Not classified	
Red phosphorus	7723-14-0	231-768-7	0.0 - 0.5	Flam. Sol. 1 H228 Aquatic Chronic 3 H412	GHS02
Sulfur	7704-34-9	231-722-6	0.0 - 0.5	Skin Irrit. 2 H315	GHS07

**4. SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact Wash skin with water.

Eye Contact Flush eyes with water for at least 15 minutes.

Ingestion Wash out mouth with water.

**4.2 Most important symptoms and effects, both acute and delayed**

Irritant effect on eyes, skin and air passages.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable Extinguishing media In case of fire use carbon dioxide or dry agent. In case of major fire and large quantities: Water jet spray, Foam.

Unsuitable extinguishing media None known.

**5.2 Special hazards arising from the substance or mixture**

None anticipated. Heating may cause decomposition.

**5.3 Advice for firefighters**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

**6. SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear protective gloves.

**6.2 Environmental precautions**

Do not release large quantities into the surface water or into drains.

**6.3 Methods and material for containment and cleaning up**

Sweep spilled substances into containers if appropriate moisten first to prevent dusting. Use vacuum to remove dust directly during formation.

**6.4 Reference to other sections**

See Also Section 8, 13.

**7. SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Provide adequate ventilation. Avoid accumulation of dust. Wear gloves, eye protection and an approved dust mask if dust is generated during handling.

**7.2 Conditions for safe storage, including any incompatibilities**

Storage temperature: Ambient.  
Storage life: Stable under normal conditions.  
Incompatible materials: None anticipated.

**7.3 Specific end use(s)**

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

**8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Nickel and its inorganic compounds (except nickel tetracarbonyl): water-insoluble nickel compounds (as Ni)	7440-02-0		0.5			(h)
Manganese and its inorganic compounds (as Mn)	7439-96-5		0.5			
Graphite particulate inhalable dust	7440-44-0		10			
Graphite particulate respirable dust	7440-44-0		4			
Phosphorus, yellow	7723-14-0		0.1		0.3	

Region: Europe, United Kingdom  
Source: EU Occupational Exposure Limits, Workplace Exposure Limits (WEL)

Remark (h): Notes: Sk, Carc (nickel oxides and sulphides) Sen (nickel sulphate)

**8.2 Exposure controls**

8.2.1. Appropriate engineering controls: Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection: Wear suitable welding mask/goggles during use.



Skin protection: Dust, Welding fumes: Wear suitable protective clothing, gloves and eye/face protection. Contaminated clothing should be laundered before reuse.



Respiratory protection: Ensure adequate ventilation.



Thermal hazards: Burn hazard/ radiated heat UV/IR : Wear insulating gloves EN407 (heat). Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

8.2.3. Environmental Exposure Controls: Do not release large quantities into the surface water or into drains.

**9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	Solid.
	Colour : Brown.
Odour	Characteristic.
Odour threshold	Not established.
pH	Not known.
Melting point/freezing point	1450 °C
Initial boiling point and boiling range	Not applicable.
Flash Point	Not applicable.
Evaporation rate	Not known.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not known.
Vapour density	Not known.
Density (g/ml)	Not available.
Relative density	Not available.
Solubility(ies)	Solubility (Water) : Insoluble. Solubility (Other) : Insoluble.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not available.
Viscosity	Not known.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

**9.2 Other information**

None.

**10. SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Stable under normal conditions.

**10.2 Chemical Stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known if used for its intended purpose.

**10.4 Conditions to avoid**

None anticipated.

**10.5 Incompatible materials**

None anticipated.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**11. SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute toxicity - Ingestion	Not classified.
Acute toxicity - Skin Contact	Not classified.
Acute toxicity - Inhalation	Not classified.
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Not classified.
Skin sensitization data	Not classified.
	May cause sensitization by skin contact. (Dust )
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
	Welding fumes: Carcinogenic to humans.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

**11.2 Other information**

Not known.



**16. SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

**LEGEND**

Hazard Pictogram(s)	None.  GHS02: GHS: flame GHS08: GHS: health hazard GHS07: GHS: exclamation mark
Hazard classification	Aquatic Chronic 3 : Hazardous to the aquatic environment, Chronic, Category 3 Carc. 2 : Carcinogenicity, Category 2 Flam. Sol. 1 : Flammable solid, Category 1 STOT RE 1 : Specific target organ toxicity — repeated exposure, Category 1 Skin Irrit. 2 : Skin corrosion/irritation, Category 2 Skin Sens. 1 : Skin sensitization, Category 1
Hazard Statement(s)	H228: Flammable solid. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H351: Suspected of causing cancer. H372: Causes damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.
Precautionary Statement(s) Acronyms	None. CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals STEL : Short term exposure limit STOT : Specific Target Organ Toxicity vPvB : very Persistent and very Bioaccumulative
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