

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	Siftrode Spezial Mild Steel Electrodes
Product code	RE85[25/32/40][01]
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	Weldability Sif
Company Identification	Peters House, Orbital Centre, Icknield Way, Letchworth Garden City, Hertfordshire, UK.
Address of Supplier	SG6 1ET
Postal code	+44 (0) 870 330 7757
Telephone:	+44 (0) 800 970 7757
Fax	service@weldability-sif.com
E-mail	
Office hours	

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

Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Siftrode Spezial Mild Steel Electrodes
Hazard Pictogram(s)	None.
Signal Word(s)	None.
Hazard Statement(s)	None.
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**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	50.0-70.0%	Not classified	
silicon	7440-21-3	231-130-8	10.0-20.0%	Not classified	
silicon dioxide	7631-86-9	231-545-4	5.0-10.0%	Not classified	
Fluorite (CaF ₂)	14542-23-5	238-575-7	2.5-5.0%	Not classified	
titanium dioxide	13463-67-7	236-675-5	2.5-5.0%	Not classified	
manganese	7439-96-5	231-105-1	1.0-5.0%	Not classified	
dipotassium oxide	12136-45-7	235-227-6	0.0-1.0%	Not classified	

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.

SIFTRODE Spezial Mild Steel Electrodes

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide adequate ventilation. Avoid dust generation. Wear gloves, eye protection and an approved dust mask if dust is generated during handling. Wash hands thoroughly after 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 ³)	STEL (ppm)	STEL (mg/m ³)	Note
Titanium dioxide total inhalable	13463-67-7		10			
Titanium dioxide respirable	13463-67-7		4			
Silica, amorphous inhalable dust	7631-86-9		6			
Silica, amorphous respirable dust	7631-86-9		2.4			
Manganese and its inorganic compounds (as Mn)	7439-96-5		0.5			
Silicon total inhalable	7440-21-3		10			
Silicon respirable dust	7440-21-3		4			

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

Remark: Notes

8.2 Exposure controls

8.2.1. Appropriate engineering controls: Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection



Skin protection: Wear suitable gloves if prolonged skin contact is likely.



Respiratory protection: Welding fumes: A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards: Burn hazard/ radiated heat UV/IR : Wear insulating gloves EN407 (heat). Safety spectacles/goggles/full face shield.

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

SIFTRODE Spezial Mild Steel Electrodes

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

Appearance	Solid.
	Colour : Grey.
Odour	Characteristic.
Odour threshold	Not established.
pH	Not known.
Melting point/freezing point	>1300°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. Dust may cause irritation.
Serious eye damage/irritation	Not classified. Welding fumes: May result in discomfort such as dizziness, nausea, or dryness of irritation of nose, throat or eyes. Dust may cause irritation.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified. Welding fumes: May result in discomfort such as dizziness, nausea, or dryness of irritation of nose, throat or eyes. Dust may cause irritation.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

11.2 Other information

The following table shows the risk factors that may occur during welding. In the table are given the maximum values of the individual elements and chemical compounds in the workplace.

Gases	CAS	MAK ml/m ³	MAK mg/m ³	ACGIH TLV mg/m ³
Carbon dioxide CO ₂	124-38-9	5.00	9.000	5.000
Carbon monoxide CO	630-08-0	30	33	25
Dinitrogen tetraoxide N ₂ O ₄	10544-72-6	-	-	3
Hydrogen fluoride HF	7664-39-3	-	-	25
Nitrogen monoxide NO	10102-43-9	25	30	3
Nitrogen dioxide NO ₂	10102-44-0	5	9	0.1
Ozone O ₃	10028-15-6	0.1	0.2	0.1
Phosgen COCL ₂	75-44-5	0.1	0.4	0.3
Formaldehyde CH ₂ O	50-00-0	0.5	0.6	-

Fumes and dusts	CAS	MAK mg/m ³	ACGIH TLV mg/m ³
Fluorides (calcium as fluorine)	778-75-5	2.5 (total dust)	2.5 total dust
Chromium (VI) compounds	1333-82-0	0.1 (total dust)	0.5 total dust as Cr
Copper oxide	7440-50-8	0.1 (total dust)	0.2 dym
Manganese oxide	7439-96-5	0.5 (total dust)	0.2 dym
Nickel N	7440-02-0	0.1 (total dust)	0.1 total dust
Nickel oxides (Ni).Ni ₂ O ₃	1313-99-1;1314-06-3	0.5 (total dust)	-
Molybdenum compounds	7439-98-7	5 (total dust)	5 total dust
Beryllium oxide BeO	1304-56-7	0.002 (total dust)	-
Cadmium oxide CdO	1306-19-0	0.03 (total dust)	0.01 total dust
Cobalt oxide CoO	1307-96-6	0.1 (total dust)	-
Vanadium (V) oxide	1314-62-1	0.05 (respirable dust)	-
Zinc oxide ZnO	1314-13-2	5 (respirable dust)	-
Silicium dioxide SiO ₂	7631-86-9	0.1 (respirable dust)	0.1 respirable dust

MAK – maximum workplace concentration in Germany

12. SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and Degradation

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

The product has high mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Disposal should be in accordance with local, state or national legislation.

13.2 Additional Information

None.

14. SECTION 14: TRANSPORT INFORMATION**Not classified as hazardous for transport.****15. SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

High Concern for Authorisation

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not listed

Community Rolling Action Plan (CoRAP)

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants

Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

titanium dioxide (13463-67-7), silicon dioxide (7631-86-9)

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

National regulations

Other

Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)

None.

Hazard Statement(s)

None.

Precautionary Statement(s)

None.

Acronyms

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

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Weldability Sif gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Weldability Sif accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.