

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 6013-R Mild Steel Electrodes

Product code RE80[20/25/32/40][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

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.

SG6 1ET

Postal code Telephone: +44 (0) 870 330 7757 +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

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Siftrode 6013-R 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.

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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 01-2119462838-24-0000	62.0- 67.0	Not classified	
titanium dioxide	13463-67-7	236-675-5	14-18	Not classified	
silicon dioxide	7631-86-9	231-545-4	<7	Not classified	
Cellulose	9004-34-6	232-674-9	3.0-5.0	Not classified	
Fluorite (CaF2)	14542-23-5	238-575-7	<2.0	Not classified	
manganese	7439-96-5	231-105-1 01-2119449803-34-0000	1.5-2.0	Not classified	
aluminium silicate	12141-46-7	235-253-8	1.0 - 1.5	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.

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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

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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Manganese and its inorganic compounds (as Mn)	7439-96-5		0.5			
Calcium carbonate inhalable dust	1317-65-3		10			
Calcium carbonate respirable dust	1317-65-3		4			
Limestone total inhalable	1317-65-3		10			
Limestone respirable	1317-65-3		4			
Marble total inhalable	1317-65-3		10			
Marble respirable	1317-65-3		4			
Silica, amorphous inhalable dust	7631-86-9		6			
Silica, amorphous respirable dust	7631-86-9		2.4			
Titanium dioxide total inhalable	13463-67-7		10			
Titanium dioxide respirable	13463-67-7		4			
Cellulose inhalable dust	9004-34-6		10		20	
Cellulose respirable dust	9004-34-6		4			

Region

Europe United Kingdom EU Occupational Exposure Limits Workplace Exposure Limits (WEL)

Remark

8.2 Exposure controls

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.

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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. Not known. Melting point/freezing point >1300°C Initial boiling point and boiling range Not applicable. app. 3000°C Flash Point Evaporation rate Not known. Flammability (solid, gas) Non-flammable.

limits

Vapour pressure
Vapour density
Density (g/ml)
Relative density
Not known.
Not available.
Not available.

Upper/lower flammability or explosive

Solubility(ies) Solubility (Water): Insoluble.
Solubility (Other): Insoluble.

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition Temperature (°C)
Viscosity
Not available.
Not available.
Not known.
Not known.
Explosive properties
Oxidising properties
Not oxidising.

9.2 Other information

None.

Not available.

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
Respiratory sensitization data
Respiratory sensitization data
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Lactation
STOT - single exposure
Not classified.
Not classified.
Not classified.
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.

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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/m³	MAK mg/m ³	ACGIH TLV mg/m ³
Carbon dioxide CO2	124-38-9	5.00	9.000	5.000
Carbon monoxide CO	630-08-0	30	33	25
Dinitrogen tetraoxide N2O4	10544-72-6	-	-	3
Hydrogen fluoride HF	7664-39-3	-	-	25
Nitrogen monoxide NO	10102-43-9	25	30	3
Nitrogen dioxide NO2	10102-44-0	5	9	0.1
Ozone O3	10028-15-6	0.1	0.2	0.1
Phosgen COCL2	75-44-5	0.1	0.4	0.3
Formaldehyde CH2 0	50-00-0	0.5	0.6	-

Fumes and dusts	CAS	MAK mg/m3	ACGIH TLV mg/m3
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).Ni203	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 SiO2	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 Toxicity - Algae Low toxicity to fish. Low toxicity to algae. Toxicity - Sediment Compartment Toxicity - Terrestrial Compartment Not classified.

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.

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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

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 Not listed High Concern for Authorisation

REACH: ANNEX XIV list of substances

subject to authorisation

Not listed

Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Community Rolling Action Plan (CoRAP) silicon dioxide (7631-86-9), titanium dioxide (13463-67-7)

Regulation (EC) N° 850/2004 of the

Not listed

European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 2037/2000 on Not listed

substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the

Not listed

European Parliament and of the Council concerning the export and import of

hazardous chemicals

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

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