

SAFETY DATA SHEET

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

Siftrode 6013-M Mild Steel Electrodes

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

1.1 Product identifier

Product Name Siftrode 6013-M Mild Steel Electrodes
Product code RE65[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 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,
Address of Supplier Orbital Centre,
Icknield Way,
Letchworth Garden City,
Hertfordshire, UK.
Postal code SG6 1ET
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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

Product Name According to Regulation (EC) No. 1272/2008 (CLP)
Siftrode 6013-M Mild Steel Electrodes

Hazard Pictogram(s)

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 01-2119462838-24-0000	80 - 90	Not classified	
Silicic acid, potassium salt	1312-76-1	215-199-1 01-2119456888-17-0000	1 - 10	Met. Corr. 1 H290 Skin Corr. 1B H314 Eye Dam. 1 H318 STOT SE 3 H335	GHS05 GHS07
dipotassium silicate	10006-28-7	233-001-1	1 - 10	Skin Corr. 1B H314 STOT SE 3 H335	GHS05 GHS07
disodium metasilicate	6834-92-0	229-912-9 01-2119449811-37-0000	1 - 10	Skin Corr. 1B H314 STOT SE 3 H335	GHS05 GHS07
manganese	7439-96-5	231-105-1 01-2119449803-34-0000	0 - 0.5	Not classified	
silicon	7440-21-3	231-130-8 01-2119480401-47-0000	0 - 0.5	Not classified	
chromium	7440-47-3	231-157-5 01-2119485652-31-0000	0 - 0.5	Not classified	
molybdenum	7439-98-7	231-107-2 01-2119472304-43-0000	0 - 0.5	Not classified	
carbon	7440-44-0	231-153-3 01-2119966900-32-0000	0 - 0.5	Not classified	
nickel	7440-02-0	231-111-4 01-2119438727-29-0000	0 - 0.5	Skin Sens. 1 H317 Carc. 2 H351 STOT RE 1 H372 Aquatic Chronic 3 H412	GHS08 GHS07
red phosphorus	7723-14-0	231-768-7 01-2119448009-39-0000	0 - 0.5	Flam. Sol. 1 H228 Aquatic Chronic 3 H412	GHS02
copper	7440-50-8	231-159-6 01-2119480154-42-0000	0 - 0.5	Not classified	
sulfur	7704-34-9	231-722-6 01-2119487295-27-0000	0 - 0.5	Skin Irrit. 2 H315	GHS07
vanadium	7440-62-2	231-171-1	0 - 0.5	Acute Tox. 4 H302 Acute Tox. 4 H332 STOT SE 3 H335 Muta. 2 H341 Repr. 2 H361d STOT RE 1 H372 Aquatic Chronic 2 H411	GHS08 GHS07 GHS09

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 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
Graphite particulate inhalable dust	7440-44-0		10			
Graphite particulate respirable dust	7440-44-0		4			
Chromium	7440-47-3		0.5			
Copper fume (as Cu)	7440-50-8		0.2			
Copper and compounds: dust and mists (as Cu)	7440-50-8		1		2	
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			
Molybdenum compounds (as Mo)insoluble compounds	7439-98-7		10		20	
Nickel and its inorganic compounds (except nickel tetracarbonyl): water-insoluble nickel compounds (as Ni)	7440-02-0		0.5			(h)
Phosphorus, yellow	7723-14-0		0.1		0.3	

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

Remark Notes
(h) 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



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.

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	1200C
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

Not known.

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 Not listed

Concern for Authorisation

REACH: ANNEX XIV list of substances Not listed

subject to authorisation

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Nickel (7440-02-0), divanadium pentaoxide vanadium pentoxide (1314-62-1), red phosphorus (7723-14-0)

Community Rolling Action Plan (CoRAP) disodium metasilicate (6834-92-0)

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

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

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)

GHS02: GHS: flame
 GHS05: GHS: corrosive
 GHS08: GHS: health hazard
 GHS07: GHS: exclamation mark
 GHS09: GHS: fish and tree

Hazard Statement(s)

H228: Flammable solid.
 H290: May be corrosive to metals.
 H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H332: Harmful if inhaled.
 H335: May cause respiratory irritation.
 H341: Suspected of causing genetic defects.
 H351: Suspected of causing cancer.
 H361d: Suspected of damaging the unborn child.
 H372: Causes damage to organs through prolonged or repeated exposure.
 H411: Toxic to aquatic life with long lasting effects.
 H412: Harmful to aquatic life with long lasting effects.

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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