

Section 1: Identification of the substance / mixture and of the Company

- 1.1 Identification of the product, substance or mixture
- Product identifier 802803, 802305
- Product type Carbon electrodes
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Mainly used for cutting, casting
- 1.3 Details of the supplier of the safety data sheet
- Supplier TELWIN SPA
- Street address Via della Tecnica, 3
- Country 36030 VILLAVERLA (VI)
- Telephone number +39 0445 858811
- Fax +39 0445 858800
- * e-mail address telwin@telwin.com
- 1.4 Emergency telephone number
- +39 0445 858811 (working hours)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

- The mixture is classified as following according to REGULATION (EC) No.1272/2008.

REGULATION (EC) N.1272/2008	
Hazard classes / Hazard categories	Hazard statement
> N/A	> N/A

For full text of H-phrases: see section 2.2.

- The most important adverse effects:
- The most important adverse physicochemical effects: not applicable
 - The most important adverse human health effects: not applicable
 - The most important adverse environmental effects:

2.2. Label elements

Hazard Pictograms:	No hazard pictogram is used
Signal Word(S):	No signal word is used.
Hazard Statement:	Not applicable.
Precautionary Statement:	Not applicable.

2.3 Other hazards

Not available (PBT, vPvB, Substance is an endocrine disruptor etc.)

Section 3: Composition/ Information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Graphite	N/A	7782-42-5	231-955-3	75%
Asphaltum	N/A	8052-42-4	231-820-9	15%
Petroleum coke	N/A	N/A	N/A	5%
Electrolytic copper	N/A	7440-50-8	231-159-6	5%

Section 4: First aid measures

4.1 Description of first aid measures

- In all cases of doubt, or when symptoms persist, seek medical attention:
 - *In case of inhalation:* Move to fresh air. If you feel unwell, seek medical attention.
 - *In case of skin contact:* Wash skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Irritation persists, seek medical attention.
 - *In case of eyes contact:* Wash eyes with copious amount of water for at least 15 minutes. If irritation persists, seek medical attention.
 - *In case of ingestion:* Rinse mouth with water and drink plenty of water. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed

If skin irritation or rash occurs, get medical advice/attention.

Section 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, carbon dioxide, dry powder, foam.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Under fire conditions, emits carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- **For non-emergency personnel:**
Use personal protective equipment. Evacuate area of all unnecessary personnel. Ensure good ventilation/exhaustion at the workplace. Avoid breathing dust. Avoid contact with eyes, skin and clothing.
- **For emergency responder:**
Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

6.2 Environmental precautions

Do not allow material to be released to the environment without proper governmental permits.

6.3 Methods for containment and cleaning up

Clean up spills immediately, using the appropriate protective equipment. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation. Clean up affected area.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

6.5 Additional information:

Not applicable

Section 7: Handling and storage

7.1 Precautions for safe handling

Protective measures:

Use personal protective equipment. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.

Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a dry, well-ventilated place. Keep container closed when not in use. Store in original containers. Keep away from incompatible materials. Keep away from fire and heat sources.

CS0028 CARBON ELECTRODES

7.3. Specific end use(s)

Not applicable.

Section 8: Exposure control / Personal protection

8.1. Control parameters

- Occupational exposure limits:

Grafit, naturlig, respirabel(CAS#7782-42-5):2.5mg/m3(Denmark)

Asphaltum(CAS#8052-42-4): Occupational Exposure Limit Value (8-hour reference period): 0.5mg/ m3, Occupational Exposure Limit Value (15-minute reference Period): 10 mg/ m3(Ireland)

Copper (as Cu)(CAS#7440-50-8)

Fume: Occupational Exposure Limit Value (8-hour reference period): 0.2 mg/ m3

dusts and mists (as Cu): Occupational Exposure Limit Value (8-hour reference period):1 mg/ m3,Occupational Exposure Limit Value (15-minute reference Period): 2 mg/ m3

- **Additional exposure limits under the conditions of use:** Not available.

- **DNEL/DMEL and PNEC-Values:** Not available.

8.2 Exposure controls

- Appropriate engineering controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

- Individual protection measures, such as personal protective equipment:

Eye/face protection > Wear suitable safety goggles.

Hand protection > Wear suitable protective gloves.

Body protection > Respiratory protection.

Thermal hazards > Wear suitable protective clothing and boots.

Wear approved mask/respirator > Wear suitable protective clothing to prevent heat.

- Environmental exposure controls

Avoid discharge into the environment.

According to local regulations, Federal and official regulations

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	Black
Odour	Odorless (Graphite)
Odour threshold	Not available
pH:	Not available
Melting poinUrange (° C)	> 600 °C (Graphite)
Boiling poinUrange (° C)	Not available
Flash point (° C)	Not available
Evaporation rate:	Not available
Flammability (solid, gas)	Not available
Ignition temperature (0C)	Not available
Upper/lower flammability/explosive limits	Not available
Vapour pressure (20° C)	Not available
Vapour density:	Not available
Relative Density (25° C)	2.2136 g/cm³ (Graphite)
Bulk density (kg/m3)	Not available
Water solubility (g/l) at 20° C	< 0.45 mg/L (Graphite)

CS0028 CARBON ELECTRODES

n-Octanol/Water (log Po/w)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity, dynamic (mPa s)	Not available
Explosive properties	Non-explosive
Oxidising properties	Non-oxidising
Water solubility (g/l) at 20° C	< 0.45 mg/L (Graphite)

9.2 Other Information

Fat solubility(solvent- oil to be specified) etc	Not available
Surface tension	Not available
Dissociation constant in water (pKa)	Not available
Oxidation-reduction Potential	Not available

Section 10: Stability and reactivity

10.1 Reactivity

The substance is stable under normal storage and handling conditions.

10.2. Chemical stability

Stable at room temperature in closed containers under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions know.

10.4. Conditions to avoid

Incompatible materials. Keep away from fire and heat sources.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide.

Section 11: Toxicological information

11.1 Toxicokinetics, metabolism and distribution

Non-human toxikological data: Not available

12.1 Information on toxicological effects

Acute toxicity: LD50(Oral, Rat): LD50(Dermal, Rabbit): LC50(Inhalation, Rat):	> 2000 mg/kg bw (female, Graphite) Not available > 2000 mg/lm 314h air (Graphite)
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

Section 12: Ecological information

Toxicity: Graphite (CAS# 7782-42-5)

Acute toxicity	Time (h)	Species	Method	Evaluation	Remarks
LC50 > 100mg/L	96	Fish	OECD 203	N/A	N/A
EC50 > 100mg/L	48	Daphnia	OECD 202	N/A	N/A
EC50 > 100mg/L	72	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: Not available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

13.2 Product I Packaging disposal:

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

Section 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-IATA)
UN-Number:	Not regulated	Not regulated	Not regulated
UN Proper shipping name:	Not regulated	Not regulated	Not regulated
Transport hazard Class:	Not regulated	Not regulated	Not regulated
Packaging group:	Not regulated	Not regulated	Not regulated
Environmental hazards:	No	No	No
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the/BC Code	Not regulated	Not regulated	Not regulated

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

- Relevant information regarding authorization: Not applicable.

- Relevant information regarding restriction: Not applicable.

- Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

- Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? NO

Section 16: Other information

16.1 Indication of changes Version 1.0 Amended by EU No 453/2010.

16.2 Training instructions: Not applicable.

16.3 Further information: This information is based upon the present state of our knowledge. This SOS has been compiled and is solely intended for this product.

16.4 Notice to reader: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.