

MATERIAL SAFETY DATA SHEET

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1.- IDENTIFICATION OF PRODUCT AND COMPANY

1.1 Product identification: COPPER-COATED CARBON GRAPHITE

ELECTRODE

1.2 Identified Uses of the substance or mixture and uses

that are advised against:

Arc cutting and welding

1.3 Supplier's details: CHAVES BILBAO S.L.,

C/Bizkargi, 6 Pol. Ind. Sarrikola E-48195 LARRABETZU Bizkaia

Tel. +34 94 412 34 56 www.chavesbao.com

1.4 Emergency telephone

number:

Toxicology Information Service

Telephone: Spain: +34 91 562 04 20 (24/7/365)

Other: National support - Poison Centres (europa.eu)

2.- IDENTIFICATION OF HAZARDS

2.1 Product classification: Unclassified product

2.2 Label items: This product does not require a label

2.3 Other hazards: N/A

3.- COMPOSITION

SUBSTANCE	CAS No. CE No.	Concentration	Classification	H/P Phrases
Graphite	7782-42-5 231-955-3	75%	-	-
Asphalt	1214-20-1 231-820-9	15%	-	-
Copper	7440-50-8 231-159-6	5%	-	-
Petroleum coke	-	5%	-	-

4.- FIRST AID

4.1 Description of first aid

No first aid measures should be necessary for unused electrodes.

In case of accident or a feeling of discomfort, seek immediate medical advice.

Inhalation Provide fresh air and keep the person warm and at rest. Request immediate medical

help.

Contact with Wash immediately with abundant water and soap. If irritation appears and persists,

the skin consult a doctor.

Contact with Rinse immediately with abundant water for 10 to 15 minutes, holding the eyelashes

the eyes back. Request medical attention if the problem persists.

Ingestion Wash the mouth out immediately. Do not induce vomiting. Request medical attention

if the problem persists.



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4.2 Main symptoms and acute and delayed effects:

No specific symptoms.

4.3 Indication of all medical assistance and special treatments that must be provided immediately.

No special measures are required. Treat the symptoms.

5.- FIRE FIGHTING MEASURES

5.1 Extinguishing means: The extinguishing measures must be chosen based on the

surrounding area. The product is not combustible in itself. Appropriate means: pulverised water, high-power jet, carbon

dioxide, foam, dry extinguishing powder.

5.2 Specific hazards arising from the substance or mixture: This product does not burn. However, the welding arcs and

sparks can set fire to combustible, inflammable materials.

5.3 Recommendations for fire

fighting personnel:

Use personal respiration devices. Collect the extinguishing water separately to avoid drainage into the rainwater or surface

water collection system.

6.- MEASURES IN THE EVENT OF ACCIDENTAL SPILLAGE

6.1 Personal precautions, personal protective equipment and emergency procedures:

General local ventilation and extraction of fumes must be appropriate to keep the fume concentrations below the safety

limits.

See section 8.

6.2 Precautions in relation to

the environment:

Do not tip down drains or dispose of in aquatic environments.

Do not allow to enter the soil/subsoil. See section 13

6.3 Methods and means of

contention and cleaning:

N.A.

6.4 Reference to other sections: See section 8/13.

7.- HANDLING AND STORAGE

7.1 Precautions for safe handling:

Ensure adequate ventilation. Use respiratory equipment to weld in confined spaces. Use appropriate protective clothing and eye protection for arc welding. Remove all flammable materials and liquids

before welding.

Wash your hands before breaks and immediately after handling the

product.

7.2 Safe storage conditions, including possible incompatibilities:

Store in a dry, well-ventilated room. Do not store welding consumables directly on the ground or next to walls. Store well away from chemical substances such as acids that could cause chemical

reactions.

7.3 Specific end uses: Arc welding



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8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 General controls:

Unless indicated to the contrary, all values are for weighted averages in an 8 hour period (TWA)

National limits for exposure during work (2018)

Substance	CAS NO.	Source:	Daily Exposure Values (VLA-ED)	Short Exposure Value (VLA-EC)
Graphite	7782-42-5	National Institute for Health and Safety at Work	2mg/m ³	-
Copper (fumes)	7440-50-8	National Institute for Health and Safety at Work	0.2mg/m ³	-
Copper (powder and mist)	7440-50-8	National Institute for Health and Safety at Work	1mg/m³	-

General local ventilation and extraction of fumes must be appropriate to keep the fume concentrations below the safety limits. The technical measures and application of appropriate work methods are prioritised over the use of personal protective equipment. Wash hands in breaks and upon finishing work.

8.2 Personal protection

Use a mask with ventilation when working or welding in reduced spaces, or where the ventilation is not sufficient to keep the exposure values within the safety limits. Use certified protective gloves and airtight protection goggles.

To protect yourself from direct contact with the skin, it is essential to use additional protective clothing on top of normal work clothing.

9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Solid, metal Colour: Not relevant Density: Not relevant

Melting point: Carbon 3527°C; Copper 1084°C Boiling point: Carbon 4027°C; Copper 2927°C

9.2 Other data:

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10.- STABILITY AND REACTIVITY

10.1 Reactivity: Does not react dangerously with other substances under normal

conditions.

10.2 Chemical stability: Stable product under normal conditions.

10.3 Possibility of dangerous reactions:

None known.

10.4 Conditions that must

be avoided:

None under normal conditions.

10.5 Incompatible

materials:

Strong oxidising agents.

10.6 Hazardous

decomposition products:

Carbon oxides.



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11.- TOXICOLOGICAL INFORMATION

11.1 Information on the toxicological effects

Acute toxicity	Unclassified
Chronic toxicity	Unclassified

11.2 Irritation

Irritating effect on the skin	Unclassified
Irritating effect in the eyes	Unclassified
Irritating effect on the digestive tract	Unclassified
Corrosiveness	Unclassified

11.3 Awareness

Awareness	Unclassified
11.4 Toxicity due to rep	peated doses
Toxicity	Unclassified

11.5 CMR effects

Carcinogenicity	No indication of carcinogenicity.
Mutagenicity	No indication of mutation in human germ cells.
Reproductive toxicity	No indication of carcinogenicity.

12.- ECOLOGICAL INFORMATION

Exotoxicity	No available data
Persistence and biodegradability	The methods to determine biodegradability do not apply to inorganic substances.
Bioaccumulative potential	No available data
Mobility in the ground	No available data
PBT/mPmB	No available data
Other adverse effects	No available data

13.- CONSIDERATIONS IN RELATION TO DISPOSAL

13.1 Methods for the treatment of waste:

Dispose of any product, waste or packaging material in accordance with local and national regulations. Worn fume extraction filters must be disposed of as hazardous waste.

Do not tip down drains or dispose of in aquatic environments. Do not allow to enter the soil/subsoil.

13.1 Methods for the treatment of packaging waste

In accordance with local and national regulations.



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14.- INFORMATION IN RELATION TO TRANSPORT

14.1 Land transport (ADR/RID)

Name	No
UN number	No

14.2 Sea transport

Name	No
UN number	No

14.3 Hazard classes for transport

Not applicable

14.4 Packaging group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Particular precautions for users

Not applicable

14. 7 Bulk transport in accordance with annex II of the MARPOL Convention and IBC Code

Not applicable

15.- REGULATORY INFORMATION

15.1 Specific regulation for health, safety and environment

European Union

Regulations (EC) No. 1907/2006 of the European Parliament and of the Council, of 18 December 2006, in relation to the registration, evaluation, authorisation and restriction of chemical substances (REACH). Commission Regulation (EU) 2015/830, of 28 May 2015, modifying Regulation (EC) no. 1907/2006.

Regulation (EC) no. 1272/2008 of the European Parliament and of the Council, of 16 December 2008 on classification, labelling and packaging of substances and mixtures, modifying and repealing Directives 67/548/EEC and 1999/45/EC and modifying Regulation (EC) No. 1907/2006

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain directives

European Parliament and Directive 94/62/EC of the Council of 20 December 1994 on packaging and packaging waste.

16.- OTHER INFORMATION

The information on this Material Safety Data Sheet is based on the technical data held by Chaves Bilbao S.L. and which it believes to be reliable. Given that the conditions of use are out of our control, we take no responsibility in relation to the use made of this information, nor do we guarantee this in any way neither implicitly nor explicitly. In the event of the mixing or processing of the product, this information shall cease to be necessarily valid. For more information, please contact Chaves Bilbao S.L.