

# SAFETY DATA SHEET



## Poco Graphite Synthetic Graphite - Copper Impregnated EDM Grade EDM-C3, EDM-C200

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or preparation

**Product name** : Poco Graphite Synthetic Graphite - Copper Impregnated EDM Grade EDM-C3, EDM-C200

**Product type** : Solid.

#### Company/undertaking identification

**Supplier/Manufacturer** : Poco Graphite, SARL  
1, rue des Vergers  
69760 Limonest - France  
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### 2. HAZARDS IDENTIFICATION

The substance is classified as dangerous according to Directive 67/548/EEC and its amendments.

**Classification** : N; R50

**Environmental hazards** : Very toxic to aquatic organisms.

See section 11 for more detailed information on health effects and symptoms.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation** : Preparation

Ingredient name	CAS number	%	EC number	Classification
<b>France</b> Copper See section 16 for the full text of the R-phrases declared above	7440-50-8	40 - 60	231-159-6	N; R50 [1] [2]
<b>Netherlands</b> Copper See section 16 for the full text of the R-phrases declared above	7440-50-8	40 - 60	231-159-6	N; R50 [1] [2]
<b>Germany</b> Copper See section 16 for the full text of the R-phrases declared above	7440-50-8	40 - 60	231-159-6	N; R50 [1] [2]
<b>Spain</b> Copper See section 16 for the full text of the R-phrases declared above	7440-50-8	40 - 60	231-159-6	N; R50 [1] [2]
<b>Italy</b> Copper See section 16 for the full text of the R-phrases declared above	7440-50-8	40 - 60	231-159-6	N; R50 [1]



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

See section 16 for the full text of the R-phrases declared above					
<b>Portugal</b>					
Copper	7440-50-8	40 - 60	231-159-6	N; R50	[1] [2]
See section 16 for the full text of the R-phrases declared above					

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

### 4. FIRST AID MEASURES

#### First-aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Obtain medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Obtain medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific fire or explosion hazard.  
This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. See section 13 for waste disposal information.
- Methods for cleaning up**
- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

## 7. HANDLING AND STORAGE

- Handling** : Avoid contact with eyes. Keep container closed. Use only with adequate ventilation. Avoid breathing dusts. Avoid contact of spilt material and runoff with soil and surface waterways. Wash thoroughly after handling.
- Storage** : Keep container tightly closed.
- Packaging materials**
- Recommended** : Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

Ingredient name	Occupational exposure limits
<b>France</b> Copper	<b>INRS (France, 6/2006).</b> STEL: 2 mg/m <sup>3</sup> , (Cu) 15 minute(s). Form: Dust TWA: 0.2 mg/m <sup>3</sup> 8 hour(s). Form: Fume
<b>Netherlands</b> Copper	<b>Nationale MAC-lijst (Netherlands, 12/2006).</b> MAC-TGG, 8 uur: 0.1 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable fraction.
<b>Germany</b> Copper	<b>MAK-Werte Liste (Germany, 7/2006).</b> PEAK: 0.2 mg/m <sup>3</sup> , 4 times per shift, 15 minute(s). Form: Aerosol / measured as the inhalable fraction TWA: 0.1 mg/m <sup>3</sup> 8 hour(s). Form: Aerosol / measured as the inhalable fraction
<b>Spain</b> Copper	<b>INSHT (Spain, 1/2007).</b> TWA: 0.2 mg/m <sup>3</sup> 8 hour(s). Form: Fume
<b>Portugal</b> Copper	<b>Instituto Português da Qualidade (Portugal, 7/2004).</b> TWA: 0.2 mg/m <sup>3</sup> , (Cu) 8 hour(s). Form: Fume

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

### Exposure controls



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Occupational exposure controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Respiratory protection** : Use an approved, properly-fitted, powered air-purifying respirator or a respirator of equivalent or greater protection.
- Hand protection** : Use chemical-resistant, impervious gloves.
- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.  
Recommended: Safety glasses.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Recommended: Lab coat.



- Hygiene measures** : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. During formulation, follow good industrial hygiene practice.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General information

#### Appearance

#### Physical state

: Solid.

#### Colour

: Gray to black.

#### Odour

: Odourless.

#### Odour threshold

: Not available.

### Important health, safety and environmental information

#### Melting point

: Sublimation Temperature: 3648.9°C (6600°F).  
Copper: Melting Point: 1083°C (1980°F).

#### Relative density

: 2.36

#### Solubility

: Insoluble in water.

## 10. STABILITY AND REACTIVITY

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
- Conditions to avoid** : Avoid release to the environment. Refer to special instructions/safety data sheet.
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials and acids.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.



## 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

### Potential chronic health effects

#### Reproductive toxicity

- Chronic effects** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin** : No specific data.
- Eyes** : No specific data.

### Target organs

- : Contains material which causes damage to the following organs: skin, eye, lens or cornea.
- : Contains material which may cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract.

## 12. ECOLOGICAL INFORMATION

- Environmental effects** : Very toxic to aquatic organisms.

### Aquatic ecotoxicity

Product/ingredient name	Test / Type	Species	Dose	Exposure
Copper	Acute LC50 0.05 to 0.06 ppm Fresh water	Fish - Pearlspot - Etroplus maculatus	-	96 hours

- Other adverse effects** : No known significant effects or critical hazards.
- AOX** : The product does not contain organically bound halogens which could lead to an AOX value in waste water.

## 13. DISPOSAL CONSIDERATIONS

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.



## 14. TRANSPORT INFORMATION

### International transport regulations

ADR/RID / IMDG / IATA Classes : Not regulated by any transport mode.

## 15. REGULATORY INFORMATION

### EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Dangerous for the environment

- Risk phrases** : R50- Very toxic to aquatic organisms.
- Safety phrases** : S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
- Product use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Europe inventory** : **Europe inventory:** All components are listed or exempted.

### National regulations

#### France

**Reinforced medical surveillance** : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

#### Germany

**Hazardous incident ordinance** : Applicable. Category: 9a Dangerous for the environment.

**Hazard class for water** : nwg Appendix No. 4

**Technical instruction on air quality control** : TA-Luft Number 5.2.1: 90-100%

#### Italy

**Emission control directive** : 102.5% Not classified.

## 16. OTHER INFORMATION

**Full text of R-phrases referred to in sections 2 and 3 - France** : R50- Very toxic to aquatic organisms.

**Full text of classifications referred to in sections 2 and 3 - France** : N - Dangerous for the environment

**Full text of R-phrases referred to in sections 2 and 3 - Netherlands** : R50- Very toxic to aquatic organisms.

**Full text of classifications referred to in sections 2 and 3 - Netherlands** : N - Dangerous for the environment

**Full text of R-phrases referred to in sections 2 and 3 - Germany** : R50- Very toxic to aquatic organisms.



## 16. OTHER INFORMATION

**Full text of classifications referred to in sections 2 and 3 - Germany** : N - Dangerous for the environment

**Full text of R-phrases referred to in sections 2 and 3 - Spain** : R50- Very toxic to aquatic organisms.

**Full text of classifications referred to in sections 2 and 3 - Spain** : N - Dangerous for the environment

**Full text of R-phrases referred to in sections 2 and 3 - Italy** : R50- Very toxic to aquatic organisms.

**Full text of classifications referred to in sections 2 and 3 - Italy** : N - Dangerous for the environment

**Full text of R-phrases referred to in sections 2 and 3 - Portugal** : R50- Very toxic to aquatic organisms.

**Full text of classifications referred to in sections 2 and 3 - Portugal** : N - Dangerous for the environment

### History

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### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.