



Trade Name Coke
Review Date 26/01/2023
Version 4

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SECTION 1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Chemical name Coke
Trade name of the substance PETROLEUM COKE
CAS number 64743-05-1
CE number 265-210-9
Registration number Not given the registration number because it is exempt from the application of Art. 2 Paragraph 7b, according to the arrangement 7 and 10 of Annex V of the REACH Regulation EC 1907/2006 and its amendments to date review of this safety data
Synonyms None.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Carbon-based additive.
Uses advised against Do not use for other purposes other than those described.

1.3 Details of the supplier of the safety data sheet

Company name GRAFITOS BARCO, S.A.
Address C/ Conde Fenosa, 21 – 1º
 32300 O Barco de Valdeorras (Orense)
 Spain
Telephone number 00 34 988320734
E-mail address for a competent person responsible for the safety data sheet grafitosbarco@grafitosbarco.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency telephone number 00 34 988320473 (Office hours)

SECTION 2. Hazards identification**2.1 Classification of the substance or mixture**

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.1.1 Major adverse physicochemical, human health and the environment

Physical hazards Combustible.
 The coke dust which can form explosive mixtures.
Health hazards Inhalation: Coke can produce dust, dangerous by their adsorption capacity. The coke dust inhalation is irritating to the nose, throat and lungs and cause chronic bronchitis.
 By Ingestion: Ingestion of large amounts may cause abdominal pain, nausea and diarrhea.
 By Contact with skin: Its abrasive action may cause irritation and dermatitis.
 By Contact with hot material may cause burns.
 By Contact with eyes: Coke can cause conjunctivitis and irritation abrasive action on the surface of the eye. Contact with hot material may cause burns.



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Environmental hazards Not classified for hazards to the environment.
Specific hazards Respiratory tract irritation by inhalation of dust from coke but by its physical form, which by its chemical nature.

2.2 Label elements

This substance does not meet the classification criteria according to EC Regulation 1272/2008 (CLP) or its subsequent amendments.

2.3 Other hazards

This substance does not meet the PBT criteria of annex XIII of the REACH regulation.
This substance does not meet the vPvB criteria of Annex XIII of the REACH regulation.

The substance is not on the list established pursuant to Article 59(1) for its endocrine-disrupting properties, or has been identified as having endocrine-disrupting properties according to the criteria set out in Delegated Regulation (EU) 2017/ 2100 of the Commission or in Regulation (EU) 2018/605 of the Commission.

SECTION 3. Composition/information on ingredients**3.1 Substances****General information**

Chemical name	Content	CAS No.	EC No.	REACH Registration No.	M-factors and specific concentration limits
PETROLEUM COKE	> 95% p/p	64743-05-1	265-210-9	Exempt from registration	-

3.2 MIXTURES

Information on the mixture Not applicable.

SECTION 4. First aid measures**4.1 Description of first aid measures**

Inhalation Move injured person into fresh air and keep person calm under observation. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention.

Skin contact Remove contaminated clothing immediately. Wash with soap and water. If skin irritation or an allergic skin reaction develops, get medical attention.

Eye contact Flush thoroughly with water for at least 15 minutes. Do not rub eye. If irritation occurs, get medical assistance. Burns require immediate medical attention.

Ingestion Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

General measures Remove to fresh air and washing with water. Alert the medical service.

4.2 Most important symptoms and effects, both acute and delayed

Dusts may irritate the respiratory tract, skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.



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SECTION 5. Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media Water spray, foam, dry chemical, CO₂
Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture

Ignition may occur with heat, sparks or flames. Flame will burn quickly.

5.3 Advice for firefighters

Special protective equipment for firefighters Use standard firefighting procedures and consider the hazards of other involved materials.
Special firefighting procedures Clothing and heat-resistant gloves. Self-contained breathing equipment.

SECTION 6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes Remove sources of ignition. Wear suitable protective clothing and gloves.
For emergency responders Use personal protection recommended in Section 8 of the SDS.

6.2 Environmental precautions

Does not produce water soluble fractions. Harmful to aquatic organisms. Does not bioaccumulate.

6.3 Methods and material for containment and cleaning up

If a spill occurs, remove the probable sources of ignition. Moisten with water spray to reduce dust. Collect spilled material with shovels and placed inside containers for later disposal.

6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7. Handling and storage**7.1 Precautions for safe handling**

Use appropriate protective clothing to prevent contact with the product and inhalation of dust. Exhaust ventilation and dust filters in the areas of handling and storage. Avoid creating sparks or other ignition sources. Fighting equipment available. Special conditions: NP

7.2 Conditions for safe storage, including any incompatibilities

Temperature and decomposition products: In the thermal decomposition can produce irritating and toxic fumes.
Hazardous reactions: When heated with strong oxidants such as ammonium nitrate or ammonium tetrachloride, bromate, chlorate, iodate, nitric acid, etc.
Storage conditions: closed and properly labeled containers in well ventilated areas.
Incompatible materials: as above.

7.3 Specific end use(s)

See section 1.2.



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SECTION 8. Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits**

	TLV / TWA (ACGIH)	TLV / TWA (ACGIH)	PEL / TWA (OSHA)
Petroleum coke	3 mg/m ³ (Respirable dust)	10 mg/m ³ (Inhalable dust)	10 mg/m ³ (Total dust)

Biological limit value No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures Follow standard monitoring procedures.
DNEL Not available.
PNEC Not available.

8.2 EXPOSURE CONTROLS**8.2.1 Appropriate engineering controls**

Provide adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required. Provide explosion-proof ventilation for high dust concentrations. Observe occupational exposure limits and minimise the risk of inhalation of dust and fumes. Provide access to washing facilities including soap, skin cleanser and fatty cream.

8.2.2 Individual protection measures, such as personal protective equipment**General information**

When coke is handled in confined spaces, there should be a good local ventilation.

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection**Hand protection**

Wear suitable protective gloves to prevent cuts and abrasions. Suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection

The product is solid. You must use respiratory protective equipment with appropriate filter when there is a significant concentration of coke dust in the environment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

8.2.3 Environmental exposure controls

Environmental manager must be informed of all significant spillages.

SECTION 9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state Solid.
Form Powder, grain.
Colour Grey.
Odour Odourless.
Odour threshold Not available.
Melting point/freezing point Not available.



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Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Not available.
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosion limits	Not applicable.
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
pH	Not applicable.
Kinematic viscosity	Not available.
Solubility	Insoluble.
Partition coefficient n-octanol/water (log value)	Not applicable.
Vapour pressure	1 mm Hg a 3586 °C.
Density and/or relative density	2 (Approximate).
Relative vapour density	Not applicable.
Bulk density	Not applicable.
Particle characteristics	Not applicable.
Evaporation rate	Not applicable.
Oxidising properties	Not applicable.
Explosive properties	Not applicable.
Percent volatile	Not available.

9.2 Other information

Information with regard to physical hazard classes	Not available.
Other safety characteristics	Not available.

SECTION 10. Stability and reactivity**10.1 Reactivity**

Stable at normal conditions.

10.2 Chemical stability

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid

Not available.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition productsIn the thermal decomposition can produce irritating and toxic fumes. Combustion Products: CO₂, H₂O, CO (in the absence of air) and other acid gases.



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SECTION 11. Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****11.1.1 Acute toxicity**

Ingestion	However, ingestion of dusts generated during working operations may cause nausea and vomiting.
Inhalation	High concentrations of dust may irritate throat and respiratory system and cause coughing.
Dermal	Dust may irritate skin.
Symptoms	Excessive concentrations of coke dust can cause annoying eye, ear and nasal passages and skin irritation and mucous membrane her presence. pulmonary irritation by inhalation. In the long term can cause chronic.

11.1.2 Skin corrosion/irritation Dust can irritate the skin. It can cause irritation by mechanical abrasion.

11.1.3 Serious eye damage/irritation Dust can irritate eyes.

11.1.4 Respiratory or skin sensitization No data available.

11.1.5 Germ cell mutagenicity No data available.

11.1.6 Carcinogenicity Not available.

11.1.7 Reproductive toxicity No data available.

11.1.8 Specific target organ toxicity - single exposure No data available.

11.1.9 Specific target organ toxicity - repeated exposure No data available.

11.1.10 Aspiration hazard Not classified.

11.2 Information on other hazards

Endocrine disrupting properties The substance is not on the list established pursuant to Article 59(1) for its endocrine-disrupting properties, or has been identified as having endocrine-disrupting properties according to the criteria set out in Delegated Regulation (EU) 2017/ 2100 of the Commission or in Regulation (EU) 2018/605 of the Commission.

Other information No information available.

SECTION 12. Ecological information**12.1 Toxicity**

No toxicity data noted for the ingredient(s).

12.2 Persistence and degradability

No results in water-soluble fractions. The coke components are not significantly biodegrade in the environment.

12.3 Bioaccumulative potential

Insoluble and solid product so it reaches concentrations that do not result in toxic effects on living things, and likewise also bioaccumulate.

12.4 Mobility in soil

Insoluble and solid product so it reaches concentrations that do not result in toxic effects on living things, and likewise also bioaccumulate.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT criteria of annex XIII of the REACH regulation.

This substance does not meet the vPvB criteria of Annex XIII of the REACH regulation.



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12.6 Endocrine disrupting properties

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12.7 Other adverse effects

The product is not expected to be hazardous to the environment.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Residual waste	Not available.
Contaminated packaging	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Recover and reclaim or recycle, if practical.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. 10 02 99.
Disposal methods/information	Is carried out by incineration in a special oven or in landfills, mixed with acid soil and fertilizer plant.

SECTION 14. Transport information

14.1 UN NUMBER OR ID NUMBER

The product is not covered by international regulation on the transport of dangerous goods.

14.2 UN PROPER SHIPPING NAME

The product is not covered by international regulation on the transport of dangerous goods.

14.3 TRANSPORT HAZARD CLASS(ES)

The product is not covered by international regulation on the transport of dangerous goods.

14.4 PACKING GROUP

The product is not covered by international regulation on the transport of dangerous goods.

14.5 ENVIRONMENTAL HAZARDS

The product is not covered by international regulation on the transport of dangerous goods.

14.6 SPECIAL PRECAUTIONS FOR USER

The product is not covered by international regulation on the transport of dangerous goods.

14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

No information available.

SECTION 15. Regulatory information

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

UE Regulations

REACH use authorisations The substance is not on the SVHC candidate list, nor is it in REACH Annex XIV.



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REACH use restrictions The substance does not have any Annex XVII restrictions.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16. Other information

Modifications compared to the previous version	Changes have been made and information has been added to all 16 sections of this SDS.El format complies with REACH and its amendment, Regulation (EC) 2020/878.
Abbreviations and acronyms	ACGIH: American Conference of Governmental Industrial Hygienistics CAS: Chemical Abstracts Service. TWA: Time Weighted Average. DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. CLP: Regulation No. 1272/2008.
Key literature references and sources for data	European Chemicals Agency (ECHA). Calculation methods and where appropriate, test data the company itself .
Advice on any training appropriate for workers	Maintenance personnel and production plant has received information and training on safety instructions in plant and equipment.
User Notes	GRAFITOS BARCO S.A. ADVISES THE USERS OF THIS PRODUCT TO STUDY THIS MATERIAL SAFETY DATA SHEET (MSDS) AND BECOME AWARE OF PRODUCT HAZARDS AND SAFETY INFORMATION. TO PROMOTE SAFE USE OF THIS PRODUCT, USERS SHOULD NOTIFY THEIR EMPLOYEES, AGENTS AND CONTRACTORS OF THE INFORMATION ON THIS MSDS AND ANY PRODUCT HAZARDS AND SAFETY INFORMATION.
Disclaimer	This information is provided without warranty. It is believed that the information is correct. This information should be used to make an independent determination of methods to protect workers and the environment. Users are responsible for assessing whether the information in this safety data sheet meets the requirements for a specific application than indicated.