



Trade name: Metallurgical coke  
Review date: 01/03/2016  
Version: 1

Page 1 de 9

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1 PRODUCT IDENTIFIER

**Chemical name:** Coke from coal

**Trade name of the Substance** metallurgical coke

**Identification Number** 65996-77-2

**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

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

**Identified uses** Carbon-based additive

**Uses advised against** not used for other purposes other than those described

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Business Name** GRAFITOS BARCO, S.A.

**Address** C/ Conde Fenosa, 21 – 1º  
32300 O Barco de Valdeorras (Orense)  
España

**Phone** 00 34 988320473

**E-mail** [grafitosbarco@grafitosbarco.com](mailto:grafitosbarco@grafitosbarco.com)

### 1.4 EMERGENCY PHONE

**Emergency Phone** National Institute of Toxicology: 0034 915620420  
24 h/día

## 2. HAZARDS IDENTIFICATION

### 2.1 CLASIFICATION OF THE SUBSTANCE OR MIXTURE

Not required. Properties not dangerous.

#### 2.1.1 Major adverse physicochemical, human health and the environment

**Health hazards**

**Inhalation:** Coke can produce dust that irritates the respiratory tract, more for his physical form by their chemical nature.

**Ingestion:** Not likely. Not toxic by ingestion.

**For skin contact:** prolonged contacts can cause irritation.

**Contact with eyes:** Dust can cause conjunctivitis coke.

**Environmental hazards** Requirement levels are not proposed.

### 2.2 Label elements

This substance does not meet the criteria of classification in accordance with the directive 67/548/CEE with previous amendments.



Trade name: Metallurgical coke  
Review date: 01/03/2016  
Version: 1

Page 2 de 9

**2.3 Other hazards**

Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substance****Chemical composition:**

Is the product obtained by distillation of coals in the special "coke batteries". Coke typical analysis is as follows:

Compuesto		%	REACH registry number	CLP Clasification
metallurgical coke	65996-77-2 / 266-010-4	100 %	Exent	-
Carbon:	7440-44-0 / 231-153-3	86-90%		-
Ash:	-	10-12%		-
Volatile:	-	1-2%:		-
Sulfur	7704-34-9 / 231-722-6	0,6-0,8%		Skin Irrit. 2 H315

The full text of the hazard  
(Phrase H) in seccion 16

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

<b>General advice:</b>	Consult a doctor if symptoms persist.
<b>Inhalation</b>	Remove the person from the area where outdoor inhaled. Administer oxygen, if necessary. Seek medical help if necessary.
<b>Skin contact</b>	In case of contact, wash with soap and water.
<b>Eye contact</b>	If a particle comes into contact with the eye, wash with water, if irritation persists seek medical advice.
<b>Ingestión</b>	None. Not likely.

**4.2 Most important symptoms and effects, both acute and delayed**

not known

**4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatically Treatment.

**5. FIRE FIGHTING MEASURES****5.1. Extinguishing media**

**Recommended extinguishing media** Use water or foam. Not recommended alcohol-based solutions.

**IMPROPER MEANS** NOT KNOWN



Trade name: Metallurgical coke  
Review date: 01/03/2016  
Version: 1

Page 3 de 9

## 5.2 HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The product is not combustible at room temperature. Nor it is explosive

Coke can initiate combustion if maintained for a long time in contact with a heat source exceeding 500°C

## 5.3. ADVICE FOR FIRE FIGHTING

**Special protective equipment for firefighters** Use standard firefighting procedures and consider the hazards of other involved materials.

**Special Firefighting Procedures** Use aparato respiratorio autónomo y traje de protección completo en caso de incendio

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Protection contact with eyes and skin. Use of respiratory equipment, if the situation requires.

### 6.2 ENVIRONMENTAL PRECAUTIONS

The coke does not produce water-soluble fractions. Prevent dust emissions. Do not discharge into sewerage systems, lakes or rivers.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Mechanically removed

### 6.4 REFERENCE TO OTHER SECTIONS

For personal protection, see section 8. For information on disposal, see section 13.

## 7. HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

- \* - Use handling systems to minimize dust generation.
- \* - Wear suitable clothing.
- \* - Ventilation by suction.
- \* - Have fire fighting equipment.

### 7.2 CONDITIOS FOR SAFE STORAGE

Use storage system that minimizes the generation of dust.

### 7.3 SPECIFIC END USE

They are not known



Trade name: Metallurgical coke  
 Review date: 01/03/2016  
 Version: 1

Page 4 de 9

**8. EXPLOSURE CONTROLS/PERSONAL PROTECTION****8.1 CONTROL PARAMETERS****Occupational exposure limits**

-TLV/TWA (ACGIH) = 2 mg/m<sup>3</sup> - respirable dust  
 -PEL/TWA (OSHA) = 5 mg/m<sup>3</sup> - respirable dust.  
 -PEL/TWA (OSHA) = 15 mg/m<sup>3</sup> - total dust.

**DNELs and PNECs**

They are not known

**8.2 EXPLOSURE CONTROLS**

**8.2.1 Appropriate engineering controls** Use good ventilation . Avoid dust generation and propagation

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

<b>Respiratory protection</b>	Yes. use dust mask facial
<b>Skin protection</b>	Yes. Resistant gloves penetration coke dust on the skin. Appropriate protective equipment to prevent direct contact
<b>Eye protection</b>	Yes. Wear face mask or goggles
<b>Hygienic practices</b>	Yes. Wash hands and face before meals . Showering after work . Do not use solvent products . Use suitable soap and conditioning creams
<b>Hygiene measures</b>	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.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 INFORMATION BASIC PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	Solid.
<b>Colour</b>	Grey.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	Not available
<b>Value pH</b>	Not applicable.
<b>Melting point / freezing point</b>	Not available
<b>Initial boiling point</b>	Not available
<b>Flashpoint</b>	>500°C (DIN 51794-EN/78)
<b>Evaporation rate</b>	Not available
<b>Flammability (solid , gas)</b>	Not flammable



Trade name: Metallurgical coke  
Review date: 01/03/2016  
Version: 1

Page 5 de 9

<b>Flammability or explosiveness limits</b>	Not applicable. Not explosive
<b>Vapour pressure</b>	Not applicable.
<b>Vapor Density</b>	Not available.
<b>Relative Density</b>	bulk density: 0,5 to 0,8 Kgs./m <sup>3</sup>
<b>Solubility</b>	Water : insoluble
<b>Partition coefficient octanol / water</b>	Not available
<b>Auto-ignition temperature</b>	Not flammable
<b>Decomposition temperature</b>	Not Available
<b>Viscosity</b>	Not applicable.
<b>Water solubility</b>	Insoluble
<b>Density (° C)</b>	Not applicable
<b>Explosive properties</b>	Not explosive
<b>oxidising properties</b>	No oxidizer

## 9.2 ADDITIONAL INFORMATION

There is no additional relevant information

## 10. STABILITY AND REACTIVITY

### 10.1 REACTIVITY

The product is stable under normal conditions and at room temperature

### 10.2 Chemical stability

The product is stable under normal conditions and at room temperature

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

It will not happen

### 10.4 CONDITIONS TO AVOID

Contact with spotlights heat above 500 C°

### 10.5 INCOMPATIBLE MATERIALS

strong acids and oxidizers

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides and sulfur oxides



Trade name: Metallurgical coke  
Review date: 01/03/2016  
Version: 1

Page 6 de 9

**11. TOXICOLOGICAL INFORMATION****TOXICOLOGICAL EXPERIENCE:**

There are no experimental data available on the product itself. There is no evidence that the coke has a toxicological effect negative.

**11.1.1 Acute toxicity** Not available  
**Ingestion**

**Inhalation**

The main route of entry is inhalation of dust, which, in excessive concentrations, can cause temporary respiratory irritation.

**Cutaneous**

Not qualified

**11.1.2 Irritation or skin corrosion**

Given its abrasiveness, may cause mechanical irritation and consequent dermatitis

**11.1.3 Serious eye irritation**

Direct contact may cause irritation

**11.1.4 Sensibilización respiratoria o cutánea**

No data available

**11.1.5 Germ cell mutagenicity**

No data available

**11.1.6 carcinogenicity**

No data available

**11.1.7 Reproductive toxicity**

No data available

**11.1.8 specific target organ toxicity (STOT) One Esposición**

No data available

**11.1.9 specific target organ toxicity (STOT) repeated Esposición**

No data available

**11.1.10 Risk of aspiration**

Not qualified



Trade name: Metallurgical coke  
Review date: 01/03/2016  
Version: 1

Page 7 de 9

## 12. ECOLOGICAL INFORMATION

### 12.1 ECOTOXICITY

There is no toxicity data

### 12.2 PERSISTENCE AND DEGRADABILITY

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

### 12.3 POTENTIAL BIOACCUMULATION

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

### 12.4 MOBILITY

Persist in the environment and can be oxidized by soil microorganisms, resulting not dangerous for the plant material

### 12.5 RESULT OF VALUATION PBT and MPMB

It is not known

### 12.6 OTHER ADVERSE ASPECTS

It is assumed that the product has no negative effects on the environment

## 13. DIPOSAL CONSIDERATIONS

### 13.1 METHODS FOR WASTE TREATMENT

Whenever you are authorized, the remains of coke can be used for incineration. Companies engaged in the recovery, disposal, transport or handle waste should comply with the Directive 2008/98/CE on waste management or other relevant community, national and regional effect.

## 14. TRANSPORT INFORMATION

### 14.1 ONU NUMBER

The product is not covered by international rules or those of the European Union on the transport of dangerous goods

### 14.2 OFFICIAL DESIGNATION OF TRANSPORTATION OF THE UNITED NATIONS

The product is not covered by international rules or those of the European Union on the transport of dangerous goods

### 14.3 KINDS OF PACKAGE

The product is not covered by international rules or those of the European Union on the transport of dangerous goods

### 14.4 Packing Group

The product is not covered by international rules or those of the European Union on the transport of dangerous goods

### 14.5 ENVIRONMENTAL HAZARDS

The product is not covered by international rules or those of the European Union on the transport of dangerous goods

### 14.6 PRECAUTIONS FOR USERS

The coke is transported, usually in bulk, like any other solid grain. It must be covered with canvas awning, both to repel rain and to protect the environment



Trade name: Metallurgical coke  
Review date: 01/03/2016  
Version: 1

Page 8 de 9

**14.7 TRANSPORT IN BULK ACCORDING TO ANNEX 2 CONVENTION MARPOOL 73/78 AND CODE IBC**

No data available

**15. REGLAMENTARY INFORMATION**

**15.1 REGULATION AND LEGISLATION SAFETY, HEALTH AND THE SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

No data available

**15.1 CHEMICAL SAFETY ASSESSMENT**

It has not made any assessment of the chemical safety

**16. OTHER INFORMATION**

**Modifications compared to the previous tab** Changes have been made and added information to all 16 sections of this SDS. The format complies with the REACH Regulation and its amendment, Regulation (EU) 2015/830.

**List of Abbreviations** ACGIH: American Conference of Fobernmental Industrial Hygienistics  
CAS: Chemical Abstracts Service  
TWA: Time Weighted Average  
DNEL: Derived No Effect Level  
PNEC: Planned concentration without effect  
CLP: Regulation N° 1272/2008

**References and data sources** European Chemicals Agency (ECHA)  
Properties Section 9: "BIATABELLENWEK BRENN-U.EXPLOSION SKENNGROSEN VON STAUBEN", No. 267,268

**Full text of hazard** H315:Causes skin irritation

**Information on training workers** Maintenance personnel and production plant has received information and training on safety instructions in plant and equipment.





**Grafitos Barco, S.A.**

## **SAFETY DATA SHEETS**

In accordance with Regulation (CE) No 830/2015 amending  
Annex II of RegulationCE No 1907/2006 (REACH)

Trade name: Metallurgical coke  
Review date: 01/03/2016  
Version: 1

Page 9 de 9

### **Customer Note:**

The information provided herein has been compiled based on the best existing sources. This does not imply that the information is complete in all cases.

The information contained in the Safety Data Sheet has been compiled based on the intended use, to the extent known such intended uses. It is your responsibility to transmit if the safety data sheet satisfy you, regarding the application of information and recommendations given for their own use.