

# SAFETY DATA SHEET



Prepared according to the Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with later changes

Date of preparation: 1.12.2010  
Version no. 6

Update date: 15.11.2022

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

#### **COAL COKE**

(High temperature coal coke)

**WE No.:** 266-010-4

**CAS No.:** 65996-77-2

**Index Number:** None

**Registration number:** exempted from the obligation to registration according to Annex V to REACH Regulation

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

Coke is a solid product of coal coking process, used as a reducer in metallurgy and chemical industry as well as fuel. Different types of coke, depending on the destination: blast furnace, foundry, metallurgical, fuel. Different grain sizes: coke breeze, pea coke, chestnut coke, round coke.

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

Koksownia Częstochowa Nowa Sp. z o.o.

ul. Chłodna 51

00-867 Warszawa

**Installation address and correspondence:**

Koksownia Częstochowa Nowa Sp. z o.o.

ul. Odlewników 20

42-200 Częstochowa

tel. 0048 34 / 389-07-01

fax. 0048 34 / 389-07-99

REGON 141056327

e-mail: [koksownia@koksownianowa.pl](mailto:koksownia@koksownianowa.pl)

[www.koksownianowa.pl](http://www.koksownianowa.pl)

<http://kpkreach.pl>

### 1.4. Emergency telephone

Information service: +48 662 137 739

Emergency office: 07:00 do 15:00 tel.: +48 34 389-07-61

[piotr.bargiel@koksownianowa.pl](mailto:piotr.bargiel@koksownianowa.pl)

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Coal coke is not dangerous substance, does not require classification according to Regulation (EC) No 1272/2008 And Directive 67/548/EEC.

### 2.2. Label elements

Labeling is not required.

### Other hazards

Is not hazardous for people as well as to natural environment.  
Substance does not meet the criteria of PBT and vPvB.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1. Substances

Chemical composition of coke depends on its type. The main component is carbon. The content of selected elements is given below:

- carbon: 85 – 95 %,
- hydrogen: 0.5 – 1 %,
- oxygen: 0.2 – 1.5 %,
- nitrogen: 0.3 – 1.3 %,
- sulfur: 0.5 – 2.0 %.

Coke contains 8 – 15 % mineral matter in form of ash.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### 4.1.1. First aid instructions by relevant routes of exposure

Contact with eyes	Wash eyes with plenty of clean water. In the case of remaining of coke fine particles in the eye, put aseptic dressing and provide medical aid.
Contact with skin	Wash well with soap and water, disinfect any scratches or wounds.
Oral poisoning	Not applicable. Consumption by mistake is rather impossible.
Inhalation	Provide access to fresh air. In the case of discomfort, provide medical aid.

### 4.2. Most important symptoms and effects, both acute and delayed

Exposure to inhalation of coke dust during prolonged period may irritate the respiratory tract.

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- 4.3. Indication of any immediate medical attention and special treatment needed**  
No data available.

## **SECTION 5: FIRE – FIGHTING MEASURES**

- 5.1. Extinguishing media**  
*Suitable extinguishing media.*  
In the case of fire use intense stream of water or other available extinguishing media.  
  
*Unsuitable extinguishing media*  
Avoid using CO<sub>2</sub> because of the possibility CO formation as the effect of coal gasification (Boudouard's reaction).
- 5.2. Special hazards arising from the substance or mixture**  
Product is not highly flammable.
- 5.3. Advice for firefighters**  
None.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

- 6.1. Personal precautions, protective equipment and emergency procedures**  
Product does not cause danger.
- 6.2. Environmental precautions**  
Product is not harmful for natural environment.
- 6.3. Methods and material for containment and cleaning up**  
Collect mechanically and recycle if possible. When contaminated by soil or sand may be used as fuel.
- 6.4. Reference to other sections**  
None.

## **SECTION 7: HANDLING AND STORAGE**

- 7.1. Precautions for safe handling**  
When used appropriately, no danger appears.  
Coke can be burned only in suitable oven.
- 7.2. Conditions for safe storage, including any incompatibilities**  
Store in roofed dump if possible, due to possibility of rain water absorption and increasing of moisture content.
- 7.3. Specific end use(s)**

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Coal coke is mainly used as a reducing agent and energy source in metallurgy, especially in the blast furnace process and other iron and non-ferrous metals metallurgy processes. Sometimes is used as a fuel in municipal energy.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Coke dust is dangerous for respiratory tract.

### 8.1. Control parameters

Threshold Limit Values (TLV) of coke dust  
According to Polish Regulations

Component	TLV-TWA [mg/m <sup>3</sup> ]	TLV-STEL [mg/m <sup>3</sup> ]	Remarks: Labeling the substance, the notation "skin" *
Other non-toxic industrial dusts – coke dust, consist free (crystalline) silica < 2 %	10	-	-

\* Labeling of the substance with the notation "skin" means that the absorption of the substance through the skin may be just so important as for inhalation exposure.

### 8.2. Exposure controls

In general, working with coke, technological operations, transportation, etc. do not require using special technical solutions aimed at improving the health and safety. Only in the case of using dry fine fractions, especially coke dust, it is necessary to use dust protection and dedusting equipment.

#### OCCUPATIONAL EXPOSURE CONTROLS, INDIVIDUAL PROTECTIVE EQUIPMENT

Respiratory protection	Dust masks, respirators
Hand and skin	Protective gloves.
Eye	Use protective glasses or face protection.
Occupational hygiene	Standard work uniform.
Thermal hazard	Temperature of coke increases in a short time after quenching, thermal scald is possible.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	Solid
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Colour	Gray
Odour	Weak characteristic smell of carbochemical products
Melting point/freezing point	Not determined, very difficult to fuse material. No data available.
Boiling point or initial boiling point and boiling range	Material practically non liquid, no data available.
Flammability	Combustible material, after exceeding the temperature of 550°C, ignites after good access to air.
Lower and upper explosion limit	Not applicable, does not form an explosive mixture with air.
Flash point	Above 550°C.
Auto-ignition temperature	Above 900°C
Decomposition temperature	Not applicable (it doesn't thermally decompose)
pH	pH of the water extract approx. 7
Kinematic viscosity	Not applicable, solid.
Solubility	Insoluble in water and other solvents.
Partition coefficient n-octanol/water (log value)	Not determined, insoluble material.
Vapour pressure	Not applicable.
Density and/or relative density	Real density 1750 – 1950 kg/m <sup>3</sup> Apparent density 900 – 1100 kg/m <sup>3</sup> Bulk density 400 – 550 kg/m <sup>3</sup> (depending on the grain size)
Relative vapour density	Not applicable
Particle characteristics	The particle size depends on the assortment of the coke and ranges from more than 40 to less than 1 mm. During use and during handling operations, it degrades to smaller sizes, including the formation of dust fractions.

## 9.2. Other information

None.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Coal coke is not chemically reactive substance.

### 10.2. Chemical stability

Coal coke is chemically stable substance.

### 10.3. Possibility of hazardous reactions

Main product of combustion is carbon dioxide. In the case, when combustion is carried out in not adapted devices, carbon oxide and nitrogen oxides can be formed, as well as sulfur dioxide (depending on sulfur content). At high temperatures reaction with CO<sub>2</sub> is possible (Boudouard's reaction) and formation of CO.

### 10.4. Conditions to avoid

Not determined.

### 10.5. Incompatible materials

Not determined.

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## 10.6. Hazardous decomposition products

During standard operating conditions consistent with the intended use, no hazardous decomposition products are formed. Coke is an inert substance, difficult to oxidize. Combustion occurs at temperature above 550°C.

## SECTION 11: TOXICOLOGICAL INFORMATION

Coal coke is non-toxic substance. It is not dangerous to human health.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

None.

### 11.2. Information on other hazards

#### 11.1.1. Endocrine disrupting properties

See section 12.6

#### 11.1.2. Other informations

None.

## SECTION 12: ECOLOGICAL INFORMATION

Product is not dangerous for ecosystem.

### 12.1. Toxicity

None.

### 12.2. Persistence and degradability

Product does not form harmful products of decomposition or oxidation.

### 12.3. Bioaccumulative potential

Not determined.

### 12.4. Mobility in soil

None.

### 12.5. Results of PBT and vPvB assessment

Assessment of PBT and vPvB was not carried out

### 12.6. Endocrine disrupting properties

Coal coke has no endocrine disrupting properties.

### 12.7. Other adverse effects

None

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

*Proceeding with waste*

Recycle if possible or burn in suitable furnace.

*Method of used packaging removal*

The material is mainly transported in bulk (railway wagons, car semi-trailers). In the case of packaging in paper bags, it is permissible to burn the packaging together with the coke.

## **SECTION 14: TRANSPORT INFORMATION**

The material is not subject to regulations on the transport of dangerous substances, according to Agreement ADR/RID, ICAO and IATA.

### **14.1. UN number or ID number**

Not determined.

### **14.2. UN proper shipping name**

Not determined.

### **14.3. Transport hazard class(es)**

Not determined.

### **14.4. Packing group**

Not determined.

### **14.5. Environmental hazards**

Not determined.

### **14.6. Special precautions for user**

Not determined.

### **14.7. Maritime transport in bulk according to IMO instruments**

Not determined.

## **SECTION 15: REGULATORY INFORMATION**

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

National regulations.

### **15.2. Chemical safety assessment**

Coal coke is exempted from the obligation to registration according to Annex V to REACH Regulation. Chemical Safety Report is not prepared.

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## **SECTION 16: OTHER INFORMATIONS**

### **Version No 6 of SDS**

**Changes made in SDS 15.11.2022** - Update resulting from the amendment of Annex II to the REACH Regulation, Commission Regulation (EU) 2020/878 of June 18, 2020.

**This version of SDS replaces all previous version of it.**

Safety data Sheet had been prepared according to COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

All of the above data are based on our knowledge. Though they do not constitute warranty of any specific product value and through this cannot be used as the basis of legally solid agreements. Above information are given for description of product from safety point of view.

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