

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 fuel, as well as reducer in metallurgy and chemical industry. 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

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

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REGON 141056327

e-mail: koksownia@koksownianowa.pl

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

1.4. Emergency telephone

Information service:

Emergency office: 07⁰⁰ do 15⁰⁰ tel.: 0048 34 389-07-61

piotr.bargiel@koksownianowa.pl

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.

2.3. 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

No data available

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 CO₂ (possibility CO formation as the effect of coal gasification).

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)

None

SECTION 8

Exposure controls/personal protection

Coke dust is dangerous for respiratory tract.

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Prepared according to 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

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Version 5

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8.1. Control parameters

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

Component	TLV-TWA [mg/m ³]	TLV-STEL [mg/m ³]
Other non toxic industrial dusts – coke dust, consist free (crystalline) silica < 2 %	10	-

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Dark solid of different size
Odour	Weak characteristic smell of carbochemical products
Odour threshold	Not determined (no data available)
pH	Not applied (solid product)
Melting point/freezing point	Not determined (no data available)
Initial boiling point and boiling range	Not determined (no data available)
Flash point	Above 550°C
Evaporation rate	Not determined (no data available)
Flammability (solid, gas)	Coke is not high flammability product
Upper/lower flammability or	Not determined (no data available)

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explosive limits	
Vapour pressure	Not determined (no data available)
Vapour density	Not determined (no data available)
Density in 20°C	1750 – 1950 kg/m ³
Relative density (water)	1,7 – 1,9
Solubility(ies)	Not soluble in water and other solvents
Partition coefficient: n-octanol/water	Not determined (no data available)
Auto-ignition temperature	Above 900°C
Decomposition temperature	Not determined (thermal decomposition does not occur)
Viscosity	Not determined (solid product)
Explosive properties	According to the report no. LWPP 814/2010 GIG KD Barbara - coke dust does not exhibit explosive properties even when using an ignition source with energy of 5kJ
Oxidizing properties	No oxidizing properties

9.2. Other information

Apparent density	900 – 1100 kg/m ³
Bulk density	400 – 550 kg/m ³ (depending on grain size)

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 CO₂ is possible (Boudouard's reaction) and formation of CO.

10.4. Conditions to avoid

Not determined.

10.5. Incompatible materials

Not determined.

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 toxicological effects

None

11.2. Health results of chronic exposure

In the case of prolonged exposure to coke dust, the possibility pneumoconiosis may occur.

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. Other adverse effects

None

SECTION 13

Disposal considerations

13.1. Waste treatment methods

Proceeding with waste

Recycle if possible or burn in suitable furnace.



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Method of used packaging removal
Not applied.

SECTION 14

Transport information

Product is a harmful substance by means of transportation regulation, according to Agreement ADR/RID, ICAO, IMDG and IATA.

14.1. UN 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

When transported not properly quenched or cooled down, danger of fire is possible due to air movement, especially during transport in open freight car or open semi trailer.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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.

SECTION 16

Other informations

Version No 2 of SDS

Changes made in SDS 15.11.2016:

- Removing of classification according to Directive No 67/548/EWG
- Changes in titles of sections according to Regulation (EC) No 2015/830
- Small editorial changes



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Version No 3 of SDS

Changes made in SDS 15.11.2016:

- Small editorial changes

Version No 4 of SDS

Changes made in SDS 30.10.2017:

Version No 5 of SDS

Changes made in SDS 16.02.2021:

- Modification to section 9
Physical and chemical properties (table 9.1- explosive properties)

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 can not be used as the basis of legally solid agreements. Above information are given for description of product from safety point of view.

Data provider:

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