

SAFETY DATA SHEET



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	Calcined Coke Fines
Other means of identification	Calcined Coke Dust, or Petroleum Calcined Coke Fines, or Petroleum Calcined Coke Dust
Proper shipping name	PETROLEUM COKE (calcined or uncalcined): Class MHB, Group B.
Product code	0000004641
SDS #	0000004641
EC number	265-210-9
CAS number	64743-05-1
REACH Registration number	Exempt from REACH: According to the provisions of Article 2(7)(b) and Annex V of REACH
Product type	Amorphous solid powder or lumps.

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

Use of the substance/mixture	Fuel, carbon for aluminum smelting, land filled. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
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1.3 Details of the supplier of the safety data sheet

Supplier	BP Energía España, S.A.U. Calle Quintanadueñas, 6 Planta 2 28050 Madrid España
E-mail address	MSDSadvice@bp.com

1.4 Emergency telephone number

EMERGENCY	Tel: +34 964 34 71 80
TELEPHONE NUMBER	Fax: +34 964 73 71 70

REACH Registration number

Registration number	Legal entity
Exempt from REACH: According to the provisions of Article 2(7)(b) and Annex V of REACH	-

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	UVCB
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	Not classified.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

2.2 Label elements

Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazardous ingredients	Coke, petroleum, Calcined
Supplemental label elements	Not applicable.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SECTION 2: Hazards identification

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	P	B	T	vPvB	vP	vB
No	N/A	N/A	No	N/A	N/A	N/A

Other hazards which do not result in classification

Fine dust clouds may form explosive mixtures with air.
Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.
Air contaminants may be formed during use of the product.
May form explosive dust-air mixture if dispersed.
☒ May form combustible dust concentrations in air.

SECTION 3: Composition/information on ingredients

3.1 Substances

Product definition UVCB

Particle size distribution 0.5 to 150 microns (micrometers). Contains sulphur (0-4%)

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
<input checked="" type="checkbox"/> Coke, petroleum, Calcined	REACH #: Annex V CAS: 64743-05-1	100	Not classified.	-	[*]
Contains: Only one of the following chemical as dust-agglomeration agent: polyethylene glycol	EC: 500-038-2 CAS: 25322-68-3	0 - 3	Not classified.	-	[1]
Base oil - unspecified	-	0 - 3	Not classified.	-	[1]

Type

☒ Substance

[1] Stabilising additive

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if irritation develops.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion

☒ Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse health effects persist or are severe. Get medical attention if symptoms occur.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

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SECTION 4: First aid measures

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

Potential acute health effects

Inhalation	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Ingestion	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Eye contact	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation	Overexposure to dust may cause mechanical irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Repeated and prolonged inhalation of any respirable dust may result in changes in lung function.
Skin contact	No known significant effects or critical hazards.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.
Unsuitable extinguishing media	Do not use water jet directly on burning coke.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	Fine dust clouds may form explosive mixtures with air.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) sulphur oxides (SO, SO ₂ , etc.)

5.3 Advice for firefighters

Special precautions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information	Dust explosion class: ST 1

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Eliminate all ignition sources. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental

	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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precautions	<p>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p> <p>Keep substance damp using water spray. Water spray or water fog can be used to remove dust particles from the air. Do not use water jet. Avoid creating dusty conditions and prevent wind dispersal. Contain and collect spillage with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).</p>
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SECTION 6: Accidental release measures

6.3 Methods and material for containment and cleaning up

Small spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Large spill	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 5 for firefighting measures.
See Section 8 for information on appropriate personal protective equipment.
See Section 12 for environmental precautions.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	<p>Put on appropriate personal protective equipment. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.</p> <p>The need for additional measures for explosion protection should be evaluated (see NFPA 68--Guide for Venting of Deflagrations; and NFPA 69--Standard on Explosion Prevention Systems).</p> <p>Contact with hot product may cause burns.</p>
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

	<p>Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers.</p>
Not suitable	Prolonged exposure to elevated temperature.

7.3 Specific end use(s)

Recommendations	See section 1.2 and Exposure scenarios in annex, if applicable.
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Base oil - unspecified	<p>National institute of occupational safety and health (Spain). [Refined mineral oil]</p> <p>STEL: 10 mg/m³ 15 minutes. Issued/Revised: 1/2008 Form: Mist</p>

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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SECTION 8: Exposure controls/personal protection

Biological exposure indices

Product/ingredient name

No exposure indices known.

Exposure indices

Derived No Effect Level

No DNELs/DMELs available.

Predicted No Effect Concentration

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Recommended: Filter type: P

Eye/face protection

Recommended: Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to dust.

Skin protection

Hand protection

General Information:

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions

and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

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SECTION 8: Exposure controls/personal protection

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

Glove Thickness:

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

Recommended: Impervious gloves.

Skin and body

Use of protective clothing is good industrial practice.

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.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Refer to standards:

Respiratory protection: EN 529

Gloves: EN 420, EN 374

Eye protection: EN 166

Filtering half-mask: EN 149

Filtering half-mask with valve: EN 405

Half-mask: EN 140 plus filter

Full-face mask: EN 136 plus filter

Particulate filters: EN 143

Gas/combined filters: EN 14387

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

...; more or engineering measurements to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Amorphous solid powder or lumps.
Colour	Black.
Odour	Slight / Odourless.
Odour threshold	Not available.
pH	Not applicable. Based on physical state.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Open cup: >250°C (>482°F)
Evaporation rate	Not available.

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SECTION 9: Physical and chemical properties

Flammability (solid, gas)	Not available.
Lower and upper explosion limit	Lower explosion limit: 125 g/m ³ (Approximate)
Vapour pressure	Not available.
Relative vapour density	Not applicable.
Relative density	Apparent relative density of <0.075 mm fraction (no compaction) - approximately 0.45 g/cc.
Solubility(ies)	Not available.
Miscible with water	No.
Partition coefficient: n-octanol/ water	Not applicable.
Auto-ignition temperature	850°C (1562°F) (Approximate)
Decomposition temperature	Not available.
Viscosity	Not applicable. Based on physical state.
Explosive properties	Dust explosion class: ST 1
Oxidising properties	Not available.
Remarks	<p>Particle size distribution 0.5 to 150 microns (micrometers)</p> <p>Maximum Explosive Pressure (P_{max}): 7 ± 1 Bar-g R_{max}: 300 ± 50 bar/s Deflagration index (K_{st}): 70 ± 25 bar.m/s Minimum explosive concentration (MEC): 100 to 125 g/m³ Minimum ignition energy (mJ): >1000</p> <p>Minimum smoldering temperature > 400 °C (EC 202, C1) Minimum oven self-ignition temperature (DIN 15188) = 850 °C</p> <p>Calcined coke dust from dust collection systems (cyclone, e-filter, bag house ...) is ST1 class dust explosive. Note that normal operations involving calcined coke dust will not be classified as Hazardous (Hazardous Area Classification per NFPA 499) because the required ignition energy is extremely high and is not possible under normal operations.</p>

Particle characteristics

Median particle size	0.5 to 150 µm
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9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible
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materials for additional information.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.
Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Take precautionary measures against static electricity. Avoid excessive heat. Prevent dust from coming into contact with hot surfaces. Prevent dust accumulation. To reduce the risk of fire, prevent the movement of air through the product during storage.

10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidising materials.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result / Route	Test authority / Number	Species	Dose	Exposure	Remarks	
Coke, petroleum, Calcined	LC50 Inhalation Gas.	-	Huntingdon Life Sciences (1999)	Rat	>50 mg/m³	6 hours	Based on Coke (petroleum), Coke, petroleum, Calcined
	LC50 Inhalation Vapour	-	IRDC (1985)	Rat	>30.7 mg/m³	6 hours	Based on Coke (petroleum), Coke, petroleum, Calcined

Conclusion/Summary  Not classified. Based on available data, the classification criteria are not met.

Acute toxicity estimates

Not available.

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Product/ingredient name	Test authority / Test number	Cell	Type	Result	Remarks	
Coke, petroleum, Calcined	-	-	Experiment: In vitro	Subject: Bacteria	Negative	Based on Coke (petroleum)
	-	-	Experiment: In vitro	Subject: Mammalian-Animal	Negative	Based on Coke (petroleum)
	-	-	Experiment: In vivo	Subject: Mammalian-Animal	Negative	Based on Coke (petroleum)


Conclusion/Summary Not classified. Based on available data, the classification criteria are not met.

Carcinogenicity

Product/ingredient	Test authority / Test	Species	Route	Exposure	Result	Remarks
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name	number						
Coke, petroleum, Calcined	-	-	Mouse	Dermal	-	Negative	Based on Coke (petroleum)

Conclusion/Summary Not classified. Based on available data, the classification criteria are not met.

Conclusion/Summary  Aspiration hazard: Not classified. Based on available data, the classification criteria are not met.

Specific target organ toxicity


Product/ ingredient name	Hazard	Test authority / Test number	Species	Route	Type	Dose	Exposure	Target organs	Remarks
Coke, petroleum, Calcined	STOT - RE	-	Rat	Inhalation	LOAEL	30.7 mg/ m³	2 years	None.	Based on Coke (petroleum)
	STOT - RE	1999	Rat	Inhalation	NOAEL	>50 mg/ m³	63 days	None.	Based on Coke (petroleum) Coke, petroleum, Calcined
	STOT - RE	1981	Mammal - species unspecified	Inhalation	NOEL	30.7 mg/ m³	24 months	None.	Based on Coke (petroleum)

Conclusion/Summary  STOT - SE: Not classified. Based on available data, the classification criteria are not met.
STOT - RE: Not classified. Based on available data, the classification criteria are not met.

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SECTION 11: Toxicological information

Information on likely routes of exposure  Routes of entry anticipated: Dermal, Inhalation, Eyes.

Potential acute health effects

Inhalation	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Ingestion	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Eye contact	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	No specific data.
Skin contact	No specific data.
Eye contact	Adverse symptoms may include the following: irritation redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation	Overexposure to dust may cause mechanical irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Repeated and prolonged inhalation of any respirable dust may result in changes in lung function.
Skin contact	No known significant effects or critical hazards.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

General	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Remarks - Endocrine
disruptor - Health

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Environmental hazards

Not classified as dangerous

12.2 Persistence and degradability

Not readily biodegradable.

12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})

Not available.

Mobility

Spillages are unlikely to penetrate the soil.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Coke, petroleum, Calcined	No	N/A	N/A	No	N/A	N/A	N/A

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SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

Remarks - Endocrine
disruptor - Environment

Not available.

Other ecological information

Significant portion of coke fines will float on water. Because the bulk density of the product is less than the density of water, smaller particles of product will float on the surface of water. Particles of product spilt into water may begin to stick together to form larger particles. As particles become larger or saturated with water their bulk density may increase. Particles of product will begin to sink when their bulk density is greater than the density of water.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

Hazardous waste

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code	Waste designation
05 01 99	wastes not otherwise specified

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Packaging

Methods of disposal

Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

Special precautions

This material and its container must be disposed of in a safe way. Empty containers or liners

Other information

may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Dusts generated during the removal of ash deposits from engine/boiler combustion surfaces or exhaust spaces, will be harmful if inhaled and may cause nausea and eye, nose and throat irritation. Repeated contact may result in serious irreversible disorders. Ash/dust produced by the combustion of product may contain hazardous components such as the oxides of vanadium and other heavy metals.

If possible, before working in the combustion/exhaust spaces of engines/boilers or before handling ash/dust produced by the combustion of product, the work area should be thoroughly dampened with water. This will help to minimise the amount of airborne contamination produced by the work activity. However, because of the risk of explosion, do not allow water to come into contact with hot ash/dust. Avoid inhalation of ash/dust from combustion/exhaust spaces. Wear suitable respiratory protective devices and chemical protective clothing when working in or inspecting engine/boiler combustion/exhaust spaces. Chemical protective suit to protect against airborne solid particulates.

References

Commission 2014/955/EU
Directive 2008/98/EC

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SECTION 14: Transport information

14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	Remarks The product is listed in the Code of Safe Practice for Solid Bulk Cargoes (IMSBC-Code) that is published by the International Maritime Organisation (IMO). The product must not be loaded when its temperature exceeds the temperature specified in the IMSBC Code.	-

14.6 Special precautions for user Not available.

14.7 Maritime transport in bulk according to IMO

Proper shipping name

PETROLEUM COKE (calcined or uncalcined): Class MHB, Group B.

Solid bulk cargoes:

Harmful to the marine environment with regard to MARPOL
 Annex V:: No
 Material is hazardous only in bulk according to the IMSBC::
 Yes
 IMSBC shipping group:: B

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

EU Regulation (EC) No. 1907/2006 (REACH)**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

Not applicable.

Other regulations**REACH Status**

For the REACH status of this product please consult your company contact, as identified in Section 1.

United States inventory (TSCA 8b)

All components are active or exempted.

Australia inventory (AIC)

All components are listed or exempted.

Canada inventory

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (CSCL)

Not determined.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory (PICCS)

Not determined.

Taiwan Chemical Substances Inventory (TCSI)

All components are listed or exempted.

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SECTION 15: Regulatory information**Ozone depleting substances (1005/2009/EU)**

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

EU - Water framework directive - Priority substances

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information**Abbreviations and acronyms**

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

internal vocabulary

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SADT = Self-Accelerating Decomposition Temperature

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4 / RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN 01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN 01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8, 64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

Full text of abbreviated H statements

Not applicable.

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SECTION 16: Other information

Full text of classifications Not applicable.

[CLP/GHS]

History

Date of issue/ Date of revision 21/11/2022.

Date of previous issue 23/06/2022.

Prepared by Product Stewardship

 Indicates information that has changed from previously issued version.

Notice to reader

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