

# SAFETY DATA SHEET



Revision: 16<sup>th</sup> February 2023 Version: 002

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Steamcoal

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

- 1.1 Product identifier**  
Product Name Steamcoal  
CAS No. Not applicable  
EC No. Not applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified Use(s) Use as a fuel  
Uses Advised Against Anything other than the above.
- 1.3 Details of the supplier of the safety data sheet**  
**Company Identification**  
Vitol SA  
Place des Bergues 3  
1201 Geneva  
Switzerland  
Telephone +31 10 498 7200  
Fax +31 10 452 9545  
E-Mail (competent person) xreach@vitol.com
- 1.4 Emergency telephone number**  
Emergency Phone No. +44 (0) 1235 239 670, 24/7  
Languages spoken All official European languages.

## SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**  
**2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Not hazardous according to current CLP Regulations.
- 2.2 Label elements**  
According to Regulation (EC) No. 1272/2008 (CLP)  
Product description Steamcoal  
Hazard Pictogram(s) None assigned.  
Signal Word(s) None assigned.  
Hazard Statement(s) None assigned.  
Precautionary Statement(s) None assigned.
- 2.3 Other hazards** Finely dispersed particles form explosive mixtures with air. Combustion releases carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>). Prolonged or excessive exposure to CO may lead to unconsciousness and even, in extreme cases, death.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances Substances in preparations / mixtures

SUBSTANCE	CAS No.	EC No.	REACH Registration No.	%W/W
Steamcoal	None assigned	None assigned	Not yet assigned in the supply chain	100

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## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If irritation develops and persists, get medical attention.

Skin Contact

Remove clothing and wash thoroughly before use. Wash affected skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

Ingestion

Rinse mouth. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical advice/attention if you feel unwell.

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

Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose, and throat. Repeated exposure may cause skin dryness or cracking. Repeated exposure to high dust concentrations may cause mild lung fibrosis.

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

Unlikely to be required but if necessary treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media

As appropriate for surrounding fire.

Unsuitable extinguishing media

None known.

### 5.2 Special hazards arising from the substance or mixture

If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard. (carbon dust/air mixtures). Hazardous decomposition product(s): Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulphur oxides, A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds.

When heated, this material releases combustibles by devolatilisation and pyrolysis. Most potential hazards are associated with an incorrect combustion process, which can then generate asphyxiating and toxic gases, including carbon monoxide (CO). Prolonged or excessive exposure to CO may lead to unconsciousness and even, in extreme cases, death.

### 5.3 Advice for firefighters

Spread the material in shallow layers and then saturate it with water. Close silos and bunkers airtight. Inertisation / suffocation with nitrogen or carbon dioxide is possible. Avoid dust generation. Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust generation. Ensure adequate ventilation. Do not breathe dust. In case of inadequate ventilation wear respiratory protection. Wear suitable protective clothing. Spillage can create tripping or slipping hazards for personnel, or skidding hazards for vehicles.

### 6.2 Environmental precautions

Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

Vacuum spilled material. A vacuum equipped with HEPA (high efficiency particulate air) filtration is recommended. , or: Sweep spilled substances into containers if appropriate moisten first to prevent dusting. Flush spill area with copious amounts of water.

### 6.4 Reference to other sections

See Section: 8,13

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## SECTION 7: HANDLING AND STORAGE




- 7.1 Precautions for safe handling** Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Wear suitable protective clothing. Avoid dust generation. Use vacuum to remove dust directly during formation. Keep away from sources of ignition. Electrical operating supplies must cover DIN/VDE 0165 safety requirements.
- 7.2 Conditions for safe storage, including any incompatibilities** Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Ensure adequate earthing. Electrical operating supplies must cover DIN/VDE 0165 safety requirements.
- Storage temperature Keep cool.  
Incompatible materials Strong oxidising agents. Keep away from heat and sources of ignition.
- 7.3 Specific end use(s)** See Section: 1.2

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
**8.1.1 Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Nuisance Dust	-	-	10	-	-	Inhalable Dust
Nuisance Dust	-	-	4	-	-	Respirable Dust

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value** Not established.
- 8.1.3 PNECs and DNELs** Not established.
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls** Ensure adequate ventilation. Avoid dust generation. Have available eyewash bottle with clean water.
- 8.2.2 Individual protection measures, such as personal protective equipment (PPE)** Keep good industrial hygiene.
- Eye/face protection  Wear eye protection with side protection (EN166).
- Skin protection  Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.
- Respiratory protection  In case of inadequate ventilation wear respiratory protection. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.
- Thermal hazards Not applicable.
- 8.2.3 Environmental Exposure Controls** Avoid release to the environment.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Black
Odour	Odourless
Melting point/freezing point	Not applicable - Solid
Boiling point or initial boiling point and boiling range	Not applicable - Solid
Flammability	Not classified as flammable
Lower and upper explosion limit	Not established.
Flash point	Non-flammable Solid
Auto-ignition temperature	480 °C
Decomposition temperature	Not established.
pH	Not established.
Kinematic viscosity	Not established.
Solubility	Insoluble in water.
Partition coefficient: n-octanol/water (log value)	Not established.
Vapour pressure	Not applicable - Solid
Density and/or relative density	700 – 900 kg/m <sup>3</sup>
Relative vapour density	Not applicable - Solid
Particle characteristics	Not established.

### 9.2 Other information

Explosive properties	Spontaneous combustion with CO-formation possible.
	Explosion Limits Dust / Air Mixture:      Explosion Limits Methane / Air Mixture:
	Lower limit: 60 g Dust / m <sup>3</sup> Lower limit: 4.8 Vol-% CH <sub>4</sub>
	Upper limit: 2 g Dust / m <sup>3</sup> Upper limit: 16 Vol-% CH <sub>4</sub>

## SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Finely dispersed particles form explosive mixtures with air. Combustible with strong oxidising agents.
10.4 Conditions to avoid	Keep away from heat and sources of ignition.
10.5 Incompatible materials	Keep away from: Strong oxidising agents.
10.6 Hazardous decomposition product(s)	Thermal oxidation / Combustion products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulphur oxides, A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in

Regulation (EC) No 1272/2008

Acute toxicity - Ingestion

Acute toxicity - Inhalation

Acute toxicity - Skin contact

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - Single Exposure

STOT - Repeated Exposure

Aspiration hazard

Based upon the available data, the classification criteria are not met.

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Based upon the available data, the classification criteria are not met.

There is no evidence of mutagenic potential.

No evidence of carcinogenicity.

No evidence of reproductive effects.

Based upon the available data, the classification criteria are not met.

Based upon the available data, the classification criteria are not met.

Based upon the available data, the classification criteria are not met.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to humans.

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11.2.2 Other information None.

## SECTION 12: ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	Based upon the available data, the classification criteria are not met.
12.2	<b>Persistence and degradability</b>	No data.
12.3	<b>Bioaccumulative potential</b>	No data.
12.4	<b>Mobility in soil</b>	No data.
12.5	<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
12.6	<b>Endocrine disrupting properties</b>	This substance does not have endocrine disrupting properties with respect to non-target organisms.
12.7	<b>Other adverse effects</b>	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods</b> Waste classification according to Directive 2008/98/EC (Waste Framework Directive)	Disposal should be in accordance with local, state or national legislation. EU Waste Codes: Not applicable
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## SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA/ICAO</b>	
14.1	<b>UN number or ID number</b>	None assigned.	None assigned.	<b>None assigned.</b>
14.2	<b>UN proper shipping name</b>	None assigned.	None assigned.	None assigned.
14.3	<b>Transport hazard class(es)</b>	None assigned.	None assigned.	None assigned.
14.4	<b>Packing group</b>	None assigned.	None assigned.	None assigned.
14.5	<b>Environmental hazards</b>	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6	<b>Special precautions for user</b>	See Section: 2		
14.7	<b>Maritime transport in bulk according to IMO instruments</b>	No information available.	No information available.	No information available.
14.8	<b>Additional information</b>	None.		

## SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1	<b>EU regulations</b>	
	<b>Authorisations and/or Restrictions On Use</b>	None.
15.1.2	<b>National regulations</b>	
	<b>Germany</b>	Water hazard class: 1
15.2	<b>Chemical Safety Assessment</b>	None.
15.3	<b>Other regulations, restrictions and prohibition regulations</b>	
	VDI 2263	Dust fires and explosions
	BGR 104	Explosion protection rules (Ex-RL)
	BGV c12	Silos
	BGV c15	Coal dust plants
	TRD 413	Coal dust combustion for steam-boilers

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

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**References:** Existing Safety Data Sheet (SDS). This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

## Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	ADN: European Agreement on the International Transport of Dangerous Goods by Inland Waterways
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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