
SAFETY DATA SHEETAccording to Regulation (EC) No. 1907/2006 (REACH) (as amended by Regulation (EU) 2020/878), and UK REACH

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name: SILEXA Active Carbon
Product Description: Graded Granular Wood Charcoal.
Chemical Name: Charcoal. An amorphous form of carbon produced by partially burning or oxidizing wood or other organic matter.
CAS Number: 16291-96-6
EC Number: 240-383-3
REACH Registration Number: (EU) 01-2119560590-41-0021
(UK) UK-01-4279995295-9-0001

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

Use of the substance/mixture: Water treatment and absorption
Sector of Use: Professional use. Industrial use
Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Bowman Stor Ltd
Address of Supplier: Unit 25 Maybrook Ind. Est.
Maybrook Road
Brownhills
Walsall
West Midlands
WS8 7DG
UK
Telephone: +44 (0)1543 379212
Email: info@bowmanstor.com

1.4 Emergency telephone number

Emergency Telephone: +44 (0)1543 379212 (Office hours)
National emergency NHS: 111 (members of the public)
UK National Poisons Information Service: 0844 892 011 (Health Professionals Only)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Not classified
Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

Hazard pictograms: None
Signal Word: None

Hazard statements
None

Precautionary statements
None

Supplemental Hazard information (EU)

SECTION 2: Hazards identification (....)

None

2.3 Other hazards

Not a PBT according to REACH Annex XIII

Not a vPvB according to REACH Annex XIII

Has not been identified as having endocrine disrupting properties

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	REACH Registration Number	SCL/ M-Factor/ ATE	WEL/ OEL
Lumpwood Charcoal	100%	16291-96-6	240-383-3	Not classified	(EU) 01-2119560590-41-0021 (UK) UK-01-4279995295-9-0001	-	No

3.2 MixturesNot applicable

SECTION 4: First aid measures**4.1 Description of first aid measures**

Rescuers should put on approved personal protective equipment (PPE) before administering first aid

Rescuers should take suitable precautions to avoid becoming casualties themselves

Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for several minutes

Remove contact lenses, if present and easy to do. Continue rinsing.

Irrigate eyes thoroughly whilst lifting eyelids

If eye irritation persists: Get medical advice/attention.

Contact with skin

Wash with plenty of soap and water.

Ingestion

Give plenty of water to drink

Never give anything by mouth to an unconscious person

Do not induce vomiting unless directed by medical personnel.

If vomiting occurs turn patient on side

Get medical advice/attention if you feel unwell.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If exposed or concerned: Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed**Contact with eyes**May cause redness and irritation

SECTION 4: First aid measures (....)

Contact with skin

May cause skin irritation

Ingestion

May cause irritation of the throat

Inhalation

Dust may cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Substance is not classified as flammable but will burn at high temperatures

Under certain conditions, carbon dust/air mixtures can produce an explosive atmosphere

Gives off irritating or toxic fumes (or gases) in a fire.

Decomposition products may include carbon oxides (CO, CO₂)

5.3 Advice for firefighters

Collect contaminated fire extinguishing water separately. This **MUST** not be discharged into drains.
Prevent fire extinguishing water from contaminating surface or ground water.

Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents

Wear self-contained breathing apparatus (SCBA)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions for non-emergency personnel: Shut off all ignition sources; Do not breathe dust; Avoid contact with skin and eyes; Wash thoroughly after dealing with spillage

Personal precautions for emergency responders: Shut off all ignition sources; If dust is formed, wear approved dust mask; Wear protective clothing as per section 8; Wash thoroughly after dealing with spillage

6.2 Environmental precautions

Do not empty into drains

6.3 Methods and material for containment and cleaning up

Shut off all ignition sources

Wear protective clothing as per section 8

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air)

Damp down to avoid dust generation

Collect as much as possible in clean container for reuse or disposal

SECTION 6: Accidental release measures (....)

Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

See section(s): 7, 8 & 13 for more information

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Ensure adequate ventilation

Avoid dust cloud formation and control ignition sources. If this material is to be reduced to, or collected as a powder, ensure a suitable design basis of safety is established per NFPA Standard 654: Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids, or comparable industry standard. Failure to establish a suitable design basis of safety may lead to a flash fire or explosion.

Avoid contact with skin and eyes

Do not breathe dust

If dust is formed, wear approved dust mask

Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated place

Keep away from sources of ignition

Keep away from oxidising substances

7.3 Specific end use(s)

Water treatment and absorption

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). 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 exposure. 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.

Charcoal

WEL (long term) 10 mg/m³ (UK, total inhalable dust)

WEL (long term): 4 mg/m³ (UK, total respirable dust)

DNEL (inhalational) 10 mg/m³ Industry, Long Term, Systemic Effects

DNEL (dermal) 14 mg/kg bw/day Industry, Long Term, Systemic Effects

DNEL (inhalational) 10 µg/m³ Consumer, Long Term, Systemic Effects

DNEL (inhalational) 10 µg/m³ Consumer, Long Term, Local Effects

DNEL (dermal) 28 mg/kg bw/day Consumer, Long Term, Systemic Effects

DNEL (oral) 2.86 mg/kg bw/day Consumer, Acute/Short Term, Systemic Effects

SECTION 8: Exposure controls/personal protection (....)**8.2 Exposure controls**

Selection and use of personal protective equipment should be based on a risk assessment of exposure potential

Engineering controls

Provide appropriate exhaust ventilation at places where airborne dust is generated

Respiratory protection

If dust is formed, wear approved dust mask

Use type FFP2 or FFP3 (EN 143) dust masks

Skin protection

None required for normal handling of product

For prolonged or repeated skin contact wear suitable protective gloves

The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.

Eye/face protection

None required for normal handling of product

If there is a risk of product getting into eyes, wear safety glasses approved to standard EN 166.

Thermal hazards

Not applicable

Hygiene measures

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air)

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Environmental exposure controls

Do not empty into drains

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state: Solid, amorphous

Colour: Black

Odour: None

Melting point/freezing point: Not determined

Boiling point or initial boiling point and boiling range: Not applicable

Flammability: Not flammable but will support combustion

Lower and upper explosion limit: No data available

Flash point: Not applicable

Auto-ignition temperature: > 200 °C

Decomposition temperature: No data available

pH: No data available

Kinematic viscosity: Not applicable

Solubility: < 1 mg/L

Partition coefficient n-octanol/water (log value): < 0.3 – 1.474 (at 25°C and pH 5.5)

Vapour pressure: Not applicable

Density and/or relative density: 1.06 - 2.1 @ 20 °C

SECTION 9: Physical and chemical properties (....)

Relative vapour density: Not applicable
Particle characteristics: No data available

9.2 Other information

Product is not classified as a self-heating substance of Division 4.2, according to N.4 Test of the Manual of Tests and Criteria, ST/SG/AC.10/11/Rev. 8 (2023) - Section 33 paragraph 33.4.6.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No hazard expected under normal conditions of use

Product stored in bulk in a large mass may self-heat

10.2 Chemical stability

Considered stable under normal conditions

10.3 Possibility of hazardous reactions

Under certain conditions, carbon dust/air mixtures can produce an explosive atmosphere

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Incompatible with strong oxidizing substances

10.6 Hazardous decomposition products

Decomposition products may include carbon oxides (CO, CO₂)

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute Toxicity**

Based on available data, the classification criteria are not met

Substances

Chemical Name	LD ₅₀ (oral, rat)	LC ₅₀ (inhalation, rat)	LD ₅₀ (dermal, rabbit)
Charcoal	No data available	(4 h) > 5 mg/L	No data available

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Charcoal	No adverse effect observed (not irritating)

Serious eye damage/irritation

Based on available data, the classification criteria are not met

SECTION 11: Toxicological information (....)
Substances

Chemical Name	Irritation/corrosion
Charcoal	Slightly irritating

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Skin sensitisation	Respiratory sensitisation
Charcoal	No adverse effect observed (not sensitising)	No data available

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	Toxicity - In Vitro	Toxicity - In Vivo
Charcoal	No data available	No data available

Carcinogenicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Charcoal	No data available	No data available	No data available

Reproductive toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Charcoal	No data available	No data available	No data available

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met

Substances

Chemical Name	Route	Remarks
Charcoal	Respiratory	No data available

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Charcoal	No data available	No data available	No data available

Aspiration hazard

Based on available data, the classification criteria are not met

SECTION 11: Toxicological information (....)

Contact with eyes

May cause redness and irritation

Contact with skin

May cause skin irritation

Ingestion

May cause irritation of the throat

Inhalation

Dust may cause respiratory irritation.

11.2 Information on other hazards

Has not been identified as having endocrine disrupting properties

SECTION 12: Ecological information**12.1 Toxicity**

Based on the available data, the classification criteria are not met

Substances

Chemical Name	LC ₅₀ (fish)	EC ₅₀ (aquatic invertebrates)	EC ₅₀ (aquatic algae)
Charcoal	No data available	LC ₅₀ (48 h) 500 - 4 000 mg/L	No data available

12.2 Persistence and degradability

Not readily biodegradable

Substances

Chemical Name	Biodegradation
Charcoal	Under test conditions no biodegradation observed (100%)

12.3 Bioaccumulative potential

No bioaccumulation potential

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Charcoal	No bioaccumulation potential	Log Pow < 0.3 – 1.474 (at 25°C and pH 5.5)

12.4 Mobility in soil

Virtually insoluble in water, low mobility in soil

Substances

Chemical Name	Adsorption/desorption
Charcoal	Low potential for adsorption

12.5 Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

Not a vPvB according to REACH Annex XIII

12.6 Endocrine disrupting properties

SECTION 12: Ecological information (....)

Has not been identified as having endocrine disrupting properties

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation

This substance can be disposed of as a non-toxic/inactive material in approved landfill sites in accordance with local regulations.

Containers may be reused/recycled

13.2 Classification

The waste must be identified according to the List of Wastes (2000/532/EC)

Hazardous Property Code(s): None assigned

SECTION 14: Transport information



14.1 UN number or ID number

UN No.: 1361

14.2 UN proper shipping name

Proper Shipping Name: CARBON

14.3 Transport hazard class(es)

Hazard Class: 4.2

14.4 Packing group

Packing Group: III

14.5 Environmental hazards

Not classified

14.6 Special precautions for user

See "Guidelines for the Safe Carriage of Charcoal in Containers"

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Road/Rail (ADR/RID)

Proper Shipping Name: CARBON

ADR UN No.: 1361

ADR Hazard Class: 4.2

ADR Packing Group: III

Tunnel Restriction Code: (E)

SECTION 14: Transport information (....)

Special Provision(s): 665 - Unground hard coal, coke and anthracite, meeting the classification criteria of Class 4.2, packing group III, are not subject to the requirements of ADR

14.9 Sea (IMDG)

Proper Shipping Name: CARBON

IMDG UN No.: 1361

IMDG Hazard Class: 4.2

IMDG Packing Group.: III

Special Provision(s): 978

14.10 Air (ICAO/IATA)

Proper Shipping Name: Not applicable

ICAO UN No.: Not applicable

ICAO Hazard Class: Not applicable

ICAO Packing Group: Not applicable

Special Provision(s): A3 applies. Product has been tested and is not classified as a self-heating substance of Division 4.2

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH

The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain

Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

Restrictions on use according to Annex XVII to REACH Regulation: Not applicable

Not hazardous according to current EU Directive 2012/18/EU (the Seveso III Directive)

15.2 Chemical safety assessment

A REACH chemical safety assessment has been carried out

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. The company will not be held liable for any damage resulting from handling or from contact with this product.

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 2.0.0. Revised April 2025.

Changes made: Change of substance. Revised to conform to latest version of REACH Annex II

Revision No. 2.1.0. Revised April 2025.

Changes made: Amended to add results of testing (UN Test N.4 – Self Heating Solids)

Training advice

Workers must be informed of the presence of hazardous ingredients and trained in the proper use and handling of this product as required under applicable regulations

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

SECTION 16: Other information (....)

None assigned

Acronyms

ATE: Acute Toxicity Estimate

BOELV: Binding Occupational Exposure Limit Value

CAS: Chemical Abstracts Service

DNEL: Derived No-Effect Level

EC: European Community

EC₅₀: Effective Concentration, 50%

GHS: Globally Harmonised System

IARC: International Agency for Research on Cancer

IOELV: Indicative Occupational Exposure Limit Value

LC₅₀: Lethal Concentration, 50%

LD₅₀: Lethal Dose, 50%

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

SCL: Specific Concentration Limit

STOT RE: Specific Target Organ Toxicity Repeated Exposure

STOT SE: Specific Target Organ Toxicity Single Exposure

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

WEL: Workplace Exposure Limit