# SAFETY DATA SHEET

According 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 Filter Media
Product Description: Glass Mineral Wool

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)

None

2.3 Other hazards

Does not contain any substances considered to be PBT or vPvB at levels of 0.1% or higher

Does not contain any substances with endocrine disrupting properties at levels of 0.1% or higher

## SECTION 2: Hazards identification (....)

## SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical Name | Conc. | CAS No. | EC No. | Classification (REGULATION (EC) No 1272/2008) [CLP/GHS] | SCL/ M-Factor/ ATE | REACH Registration Number | WEL/ OEL |
|---|---|---|---|---|---|---|---|
| Glass Mineral Wool * | > 99% | - | 926-099-9 | Not classified | - | 01-2119472313-44-XXXX | Yes |
| Anti-dust, antistatic and hydrophobic | < 0.75% | - | - | Not classified | - | - | No |
| Possible colourant | < 0.5% w/w | - | - | Not classified | - | - | No |

* Man-made vitreous (silicate) fibres with random orientation with alkaline and alkali earth oxides ($Na_2O+K_2O$ +CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the CLP Regulation Annex VI Note Q conditions i.e not classified as carcinogenic.

## 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

If mechanical irritation occurs, remove contaminated clothing and wash skin gently with cold water and soap
If exposed or concerned: Get medical advice/attention

Ingestion

Rinse mouth with water
Give plenty of water to drink
Never give anything by mouth to an unconscious person
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.
Rinse mouth and nose with water.
If exposed or concerned: Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes

The mechanical effect of fibres in contact with eyes may cause temporary itching

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

Contact with skin

The mechanical effect of fibres in contact with skin may cause temporary itching

Ingestion

The mechanical effect of fibres in contact with the throat may cause temporary itching

Inhalation

The mechanical effect of fibres in contact with airways may cause temporary itching

4.3 Indication of any immediate medical attention and special treatment needed

If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice

## SECTION 5: Firefighting measures

5.1 Extinguishing media

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

Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

The products are non-combustible; however, some packaging materials or facings may be combustible. Products of combustion from product and packaging - carbon dioxide, carbon monoxide and some trace gases such as ammonia, nitrogen oxides and volatile organic substances.

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

In large fires in poorly ventilated areas or involving packaging materials respiratory protection/breathing apparatus may be required

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions for non-emergency personnel: Evacuate the area and keep personnel upwind; Do not breathe dust; Avoid contact with skin and eyes

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

Not relevant

6.3 Methods and material for containment and cleaning up

Wear protective clothing as per section 8

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

Clean with vacuum or dampen with water spray prior to sweeping up

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

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

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

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 contact with skin and eyes

Do not breathe dust

If dust is formed, wear approved dust mask

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry place

If possible, keep in the original packaging. Materials without packaging should be covered to protect them from ingress of water.

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.

Glass Mineral Wool

WEL (long term) 5 mg/m³ and 2 fibres/millilitre (UK. MMMF, Machine-made mineral fibre)

8.2 Exposure controls

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

Engineering controls

Engineering controls are not required for normal handling
Ensure adequate ventilation

Respiratory protection

When working in unventilated area or during operations which can generate emission of any dust, wear approved dust mask.
Type FFP1 is recommended approved to standard EN 149

## SECTION 8: Exposure controls/personal protection (....)

Skin protection

Cover exposed skin
Use gloves to avoid itching in conformity with EN 388

Eye/face protection

Wear safety glasses or goggles giving complete eye protection 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)
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.

Environmental exposure controls

No information available

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | Solid, fibres |
| Colour: | White |
| Odour: | None |
| Melting point/freezing point: | ≈ 1 274 °C |
| Boiling point or initial boiling point and boiling range: | Not applicable |
| Flammability: | Not flammable |
| Lower and upper explosion limit: | Not applicable |
| Flash point: | Not applicable |
| Auto-ignition temperature: | Not applicable |
| Decomposition temperature: | Not applicable |
| pH: | Not applicable |
| Kinematic viscosity: | Not applicable |
| Solubility: | Insoluble in water |
| Partition coefficient n-octanol/water (log value): | Not applicable, inorganic |
| Vapour pressure: | Not applicable |
| Density and/or relative density: | ≈ 161.4 kg/m³ |
| Relative vapour density: | Not applicable |
| Particle characteristics: | Nominal diameter of fibres 2 - 5 µm |

9.2 Other information

No information available

## SECTION 10: Stability and reactivity

10.1 Reactivity

Inert, not reactive

10.2 Chemical stability

Considered stable under normal conditions

## SECTION 10: Stability and reactivity (....)

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No information available

10.6 Hazardous decomposition products

None under normal use

## 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) |
|---|---|---|---|
| Glass Mineral Wool | No data available | No data available | No data available |

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Substances

| Chemical Name | Irritation/corrosion |
|---|---|
| Glass Mineral Wool | No adverse effect observed (not irritating) |

Serious eye damage/irritation

Based on available data, the classification criteria are not met

Substances

| Chemical Name | Irritation/corrosion |
|---|---|
| Glass Mineral Wool | No adverse effect observed (not irritating) |

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met

Substances

| Chemical Name | Skin sensitisation | Respiratory sensitisation |
|---|---|---|
| Glass Mineral Wool | No adverse effect observed (not sensitising) | No adverse effect observed (not sensitising) |

Germ cell mutagenicity

Based on available data, the classification criteria are not met

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

Substances

| Chemical Name | Toxicity - In Vitro | Toxicity - In Vivo |
|---|---|---|
| Glass Mineral Wool | No study available | No adverse effect observed (negative) |

Carcinogenicity

Based on available data, the classification criteria are not met
MMVF is classified by IARC as Group 3 (Not classifiable as to its carcinogenicity to humans)

Substances

| Chemical Name | NOAEL (oral, rat) | NOAEC (inhalation, rat) | NOAEL (dermal, rat) |
|---|---|---|---|
| Glass Mineral Wool | 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) |
|---|---|---|---|
| Glass Mineral Wool | 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 |
|---|---|---|
| Glass Mineral Wool | Respiratory | No adverse effect observed (not irritating) |

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) |
|---|---|---|---|
| Glass Mineral Wool | No data available | 30 mg/m³ air | No data available |

Aspiration hazard

Based on available data, the classification criteria are not met

Contact with eyes

The mechanical effect of fibres in contact with eyes may cause temporary itching

Contact with skin

The mechanical effect of fibres in contact with skin may cause temporary itching

Ingestion

The mechanical effect of fibres in contact with the throat may cause temporary itching

Inhalation

The mechanical effect of fibres in contact with airways may cause temporary itching

11.2 Information on other hazards

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

Does not contain any substances with endocrine disrupting properties at levels of 0.1% or higher

## 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) |
|---|---|---|---|
| Glass Mineral Wool | (4 days) 1 g/L | (72 h) 1 g/L | (72 h) 1 g/L |

12.2 Persistence and degradability

Not readily biodegradable

Substances

| Chemical Name | Biodegradation |
|---|---|
| Glass Mineral Wool | MMVF note Q fibres are inorganic and it is evaluated that MMVF note Q fibres are not biodegradable |

12.3 Bioaccumulative potential

No bioaccumulation potential

Substances

| Chemical Name | Bioconcentration Factor (BCF) | Log Kow |
|---|---|---|
| Glass Mineral Wool | MMVF note Q fibres have very low potential for bioaccumulation | MMVF note Q fibres are inorganic |

12.4 Mobility in soil

MMVF note Q fibres are purely inorganic and will not adsorb to soil and sediment. The leached positive charged ions (Na+, K+, Ca2+, Mg2+, Ba2+) may adsorb to both the clay fraction and the organic matter fraction. They are however considered to be natural constituents in both fresh and marine waters, and in soil pore water and soil/sediment matrix.

Substances

| Chemical Name | Adsorption/desorption |
|---|---|
| Glass Mineral Wool | MMVF note Q fibres are purely inorganic and will not adsorb to soil and sediment |

12.5 Results of PBT and vPvB assessment

Does not contain any substances considered to be PBT or vPvB at levels of 0.1% or higher

12.6 Endocrine disrupting properties

Does not contain any substances with endocrine disrupting properties at levels of 0.1% or higher

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

## SECTION 13: Disposal considerations (....)

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

Not classified as hazardous for transport

14.1 UN number or ID number

UN No.: Not applicable

14.2 UN proper shipping name

Proper Shipping Name: Not applicable

14.3 Transport hazard class(es)

Hazard Class: Not applicable

14.4 Packing group

Packing Group: Not applicable

14.5 Environmental hazards

Not classified

14.6 Special precautions for user

No special precautions are required for this product

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Road/Rail (ADR/RID)

| | |
|---|---|
| Proper Shipping Name: | Not applicable |
| ADR UN No.: | Not applicable |
| ADR Hazard Class: | Not applicable |
| ADR Packing Group: | Not applicable |
| Tunnel Restriction Code: | Not applicable |

14.9 Sea (IMDG)

| | |
|---|---|
| Proper Shipping Name: | Not applicable |
| IMDG UN No.: | Not applicable |
| IMDG Hazard Class: | Not applicable |
| IMDG Packing Group.: | Not applicable |

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 |

## SECTION 15: Regulatory information

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

## SECTION 15: Regulatory information (....)

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)

The IARC re-classified man-made vitreous fibres (MMVF) from Group 2B (possibly carcinogenic to humans) to Group 3 (not classifiable as to its carcinogenicity to humans). (IARC Monograph 81, 2002)

15.2 Chemical safety assessment

Not relevant

## 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: Updated data in all sections. Revised to conform to latest version of REACH Annex II

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:

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

$EC_{50}$: Effective Concentration, 50%

GHS: Globally Harmonised System

IARC: International Agency for Research on Cancer

IOELV: Indicative Occupational Exposure Limit Value

$LC_{50}$: Lethal Concentration, 50%

$LD_{50}$: Lethal Dose, 50%

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OEL: Occupational Exposure Limit

## SECTION 16: Other information (....)

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