SAFETY DATA SHEET

SILFOAM

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

1.1. Product identifier
Product form: Mixtures
Trade name/designation: SILFOAM

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

1.2.1. Relevant identified uses
Main use category: Industrial use
Use of the substance/mixture: thermal insulation

1.2.2. Uses advised against
No data available

1.3. Details of the supplier of the safety data sheet
Active Aerogels, Lda.
Rua Pedro Nunes
3030-199
T +351 239700333
info@activeaerogels.com

1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Country</th>
<th>Official advisory body</th>
<th>Address</th>
<th>Emergency number</th>
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<tbody>
<tr>
<td>Ireland</td>
<td>National Poisons Information Centre</td>
<td>Beaumont Hospital Beaumont Road 9 Dublin</td>
<td>+353 1 809 21 66 (public, 8am - 10pm, 7/7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>+353 01 809 2566 (Professionals, 24/7)</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Newcastle Centre)</td>
<td>Claremont Place Newcastle upon Tyne NE1 4LP Newcastle</td>
<td>0844 892 0111 (UK only, 24/7, healthcare professionals only)</td>
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<td></td>
<td>Regional Drugs and Therapeutics Centre, Watson Unit</td>
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Not applicable

2.3. Other hazards
Adverse physicochemical, human health and environmental effects: Dust formation.
Other hazards: Results of PBT and vPvB assessment. Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable
### 3.2. Mixtures

**Comments**: Amorphous silica (respirable dust <1%)

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Additional advice**

First aider: Pay attention to self-protection. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person or a person with cramps. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

**Inhalation**

Remove person to fresh air and keep comfortable for breathing. In case of doubt or persistent symptoms, consult always a physician.

**Skin contact**

Take off contaminated clothing. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.

**Eyes contact**

Rinse immediately with plenty of water. In case of doubt or persistent symptoms, consult always a physician.

**Ingestion**

Rinse mouth out with water. Get medical advice/attention.

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

**Inhalation**

The following symptoms may occur: Inhalation of dust may cause irritation of the respiratory system.

**Skin contact**

The following symptoms may occur: Contact with dust may cause mechanical irritation or drying of the skin.

**Eyes contact**

The following symptoms may occur: Dust may cause painful eye irritation and tearing.

**Ingestion**

The following symptoms may occur: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

No data available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media**: carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.

**Unsuitable extinguishing media**: Strong water jet.

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

**Specific hazards**: Not flammable. Heating will cause a rise in pressure with a risk of bursting.

#### 5.3. Advice for firefighters

**Firefighting instructions**: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.

**Protection during firefighting**: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

**Other information**: Do not allow run-off from fire-fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

**For non-emergency personnel**: Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Avoid contact with skin, eyes and clothing.
6.1.2. For emergency responders
For emergency responders: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Stop leak if safe to do so. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections
Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials. Refer to Section 10 on Incompatible materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Avoid dust formation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Avoid dust formation.
Storage conditions: Store in a dry, cool and well-ventilated place. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
Incompatible substances or mixtures: Hydrogen fluoride.
Incompatible materials: Keep away from strong acids, strong bases and oxidizing agents.
Packaging materials: Keep only in the original container.

7.3. Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information: Personal air monitoring; Room air monitoring. Monitoring methods

8.2. Exposure controls
Engineering measure(s): Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. Safe handling: see section 7.

Personal protective equipment: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection: Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Suitable material: neoprene gloves, Latex gloves, rubber or plastic gloves, leather gloves, neoprene gloves (>0.3mm, BTT: 8h). The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Eye protection: Use suitable eye protection (EN166):

Body protection: Wear suitable protective clothing

Thermal hazard protection: Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state: Paste
- Colour: white.
- Odour: odourless.
- Odour threshold: Not applicable
- pH: 7
- Relative evaporation rate (butylacetate=1): No data available
- Melting / freezing point: No data available
- Flash point: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Flammability (solid, gas): Not flammable, Not combustible, Not self-igniting

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Reference to other sections 10.4 & 10.5.

10.2. Chemical stability
Stable under normal conditions.
10.3. **Possibility of hazardous reactions**
No dangerous reactions known under normal conditions of use.

10.4. **Conditions to avoid**
Safe handling: see section 7.

10.5. **Incompatible materials**
Safe handling: see section 7.

10.6. **Hazardous decomposition products**
Reference to other sections 5.2.

### SECTION 11: Toxicological information

11.1. **Information on toxicological effects**
- **Acute toxicity**: Not classified (Based on available data, the classification criteria are not met.)
- **Skin corrosion/irritation**: Not classified (Based on available data, the classification criteria are not met.)
- **Serious eye damage/irritation**: Not classified (Based on available data, the classification criteria are not met.)
  - pH: 7
- **Respiratory or skin sensitisation**: Not classified (Based on available data, the classification criteria are not met.)
- **Germ cell mutagenicity**: Not classified (Based on available data, the classification criteria are not met.)
- **Carcinogenicity**: Not classified (Based on available data, the classification criteria are not met.)
- **Reproductive toxicity**: Not classified (Based on available data, the classification criteria are not met.)
- **STOT-single exposure**: Not classified (Based on available data, the classification criteria are not met.)
- **STOT-repeated exposure**: Not classified (Based on available data, the classification criteria are not met.)
- **Aspiration hazard**: Not classified (Based on available data, the classification criteria are not met.)
- **Other information**: Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

### SECTION 12: Ecological information

12.1. **Toxicity**
Environmental properties: According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as “dangerous for the environment”.

12.2. **Persistence and degradability**

| SILFOAM | Persistence and degradability | No data available. |

12.3. **Bioaccumulative potential**

| SILFOAM | Partition coefficient n-octanol/water | No data available |
|         | Bioaccumulative potential | No data available |

12.4. **Mobility in soil**

| SILFOAM | Mobility in soil | No data available |

12.5. **Results of PBT and vPvB assessment**

| SILFOAM | Results of PBT assessment | No data available |
12.6. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. Safe handling: see section 7. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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No supplementary information available

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport
  Not applicable

- Transport by sea
  Not applicable

- Air transport
  Not applicable

- Inland waterway transport
  Not applicable

- Rail transport
  Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : No data available.
SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

France

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<td>Fabrication en quantité industrielle par transformation chimique ou biologique de produits chimiques inorganiques, tels que :</td>
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<tr>
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<td>e) Non-métaux, oxydes métalliques ou autres composés inorganiques, tels que carbone de calcium, silicium, carbone de silicium</td>
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Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)
German storage class (LGK) : LGK 13 - Non-combustible solids

TA Luft : 5.2.1 Total Dust, including Micro Dust

Netherlands

Waterbezwaarlijkheid : 11 - Weinig schadelijk voor in het water levende organismen
Saneringinspanningen : A - In principe niet lozen; zo ja, dan toepassen van beste bestaande technieken
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-imitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-imitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-imitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out

SECTION 16: Other information

Abbreviations and acronyms:

ABM = Algemene beoordelingsmethodiek
Sources of key data used to compile the datasheet:
Supplier info.

Training advice:
Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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