	<b>SAFETY DATA SHEET</b>	Page : 1 / 9
		Revision nr : 1.0
	<b>SILfiller</b>	Issue date : 09/05/2017
		Supersedes :

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

### 1.1. Product identifier

Product form : Substance  
Trade name/designation : SILfiller  
IUPAC name : Amorphous silica

### 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](mailto:info@activeaerogels.com)

### 1.4. Emergency telephone number

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

## 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. Risk of dust explosion.

Other hazards : The study does not need to be conducted because the substance is inorganic.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Comments : Amorphous silica (respirable dust <1%)

	<h1>SAFETY DATA SHEET</h1>	Page : 2 / 9
		Revision nr : 1.0
	<h2>SILfiller</h2>	Issue date : 09/05/2017
		Supersedes :

Substance name : SILfiller

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrofobic Silicon Dioxide, Amorphous	(CAS-No.) 67762-90-7 (EC-No.) - (EC Index) -	100	Not classified

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## 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 carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.
- Ingestion : Rinse mouth thoroughly 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 (CO<sub>2</sub>), 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. Risk of dust explosion.

### 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. Avoid dust formation. Knock down/dilute dust cloud with water spray.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

	<b>SAFETY DATA SHEET</b>	Page : 3 / 9
	<b>SILfiller</b>	Revision nr : 1.0
Issue date : 09/05/2017		
Supersedes :		

Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## 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. Do not breathe dust. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

#### **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. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation. Avoid dust formation. Knock down/dilute dust cloud with water spray.

### **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. Do not store near or with any of the incompatible materials listed in section 10.  
Incompatible substances or mixtures : Hydrogen fluoride.  
Incompatible materials : Keep away from strong acids, strong bases and oxidizing agents.  
Storage area : Keep as dry as reasonably practicable.  
Packaging materials : Keep only in the original container.

### **7.3. Specific end use(s)**

No data available.

	<b>SAFETY DATA SHEET</b>	Page : 4 / 9
		Revision nr : 1.0
	<b>SILfiller</b>	Issue date : 09/05/2017
		Supersedes :

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Additional information : Personal air monitoring :. Room air monitoring. Recommended monitoring procedures

### 8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. Safe handling: see section 7 . Apply measures to prevent dust explosions. Ensure equipment is adequately earthed.

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 : Wear chemically resistant gloves (tested to EN374) . 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): Safety glasses with side shields

Body protection : Wear suitable protective clothing.

Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Effective dust mask (EN 149). Half-face mask (EN 140). full face mask (DIN EN 136). Filter type: P (EN 143)

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 : Solid

Appearance : Powder. Granulate.

Colour : white.

Odour : odourless.

Odour threshold : Not applicable

pH : Not applicable

Relative evaporation rate (butylacetate=1) : No data available

Melting / freezing point : No data available

Freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : 350 °C

Flammability (solid, gas) : Not flammable,Not combustible,Not self-igniting

Vapour pressure : Not applicable

Vapour density : Not applicable

Relative density : Not applicable

Solubility : Water: Insoluble

Partition coefficient n-octanol/water : No data available

Kinematic viscosity : No data available

Dynamic viscosity : No data available

	<b>SAFETY DATA SHEET</b>	Page : 5 / 9
		Revision nr : 1.0
	<b>SILfiller</b>	Issue date : 09/05/2017
		Supersedes :

Explosive properties : Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

Oxidising properties : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

Explosive limits : No data available

#### **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.)  
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)  
pH: Not applicable

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".

	<h1>SAFETY DATA SHEET</h1>	Page : 6 / 9
		Revision nr : 1.0
	<h2>SILfiller</h2>	Issue date : 09/05/2017
		Supersedes :

### 12.2. Persistence and degradability

<b>SILfiller</b>	
Persistence and degradability	The study does not need to be conducted because the substance is inorganic.

### 12.3. Bioaccumulative potential

<b>SILfiller</b>	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	There is no bioaccumulation.

### 12.4. Mobility in soil

<b>SILfiller</b>	
Mobility in soil	No data available

### 12.5. Results of PBT and vPvB assessment

<b>SILfiller</b>	
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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

Special precautions for user : No data available

	<b>SAFETY DATA SHEET</b>	Page : 7 / 9
		Revision nr : 1.0
	<b>SILfiller</b>	Issue date : 09/05/2017
		Supersedes :

**- 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**

No REACH Annex XVII restrictions

SILfiller is not on the REACH Candidate List

SILfiller is not on the REACH Annex XIV List

**15.1.2. National regulations**

**France**

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
3420.text	Fabrication en quantité industrielle par transformation chimique ou biologique de produits chimiques inorganiques, tels que :		
3420.e	e) Non-métaux, oxydes métalliques ou autres composés inorganiques, tels que carbure de calcium, silicium, carbure de silicium	A	3

**Germany**

German storage class (LGK) : LGK 13 - Non-combustible solids

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

TA Luft : 5.2.1 Total Dust, including Micro Dust

**Netherlands**

Waterbezwaarlijkheid : 11 - Weinig schadelijk voor in het water levende organismen


Saneringsinspanningen : A - In principe niet lozen; zo ja, dan toepassen van beste bestaande technieken

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

	<b>SAFETY DATA SHEET</b>	Page : 8 / 9
		Revision nr : 1.0
	<b>SILfiller</b>	Issue date : 09/05/2017
		Supersedes :

NIET-limitatieve lijst van voor de : The substance is not listed  
voortplanting giftige stoffen – Ontwikkeling

## 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
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)


Sources of key data used to compile the : Supplier info.  
datasheet

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

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the



	<b>SAFETY DATA SHEET</b>	Page : 9 / 9
		Revision nr : 1.0
	<b>SILfiller</b>	Issue date : 09/05/2017
		Supersedes :

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