

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

1.1. Product identifier

Name of the substance SILICA GEL Non-Indicating
Identification number -

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

Identified uses Desiccant. For adsorption of moisture and prevention of corrosion and mould growth.
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier Premier Farnell plc
 150 Armley Road
 Leeds
 LS12 2QQ
 +44 (0) 870 129 8608

1.4. Emergency Telephone Number

Emergency telephone : +44 1865 407333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies

Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Exposure to powder or dusts may be irritating to eyes, nose and throat. Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.
Signal word None.
Hazard statements The substance does not meet the criteria for classification.

Precautionary statements

Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.
Supplemental label information None.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Amorphous silica	>98	231-545-4 7631-86-9	01-2119379499-16-0124	-	
Classification: -					

List of abbreviations and symbols that may be used above

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

SECTION 4: First aid measures

General information IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash the skin immediately with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.

Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Drink water as a precaution. If ingestion of a large amount does occur, call a poison control centre immediately.

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

Dusts may irritate the respiratory tract, skin and eyes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards Not a fire hazard. No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media None known.
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective clothing.

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

No unusual fire or explosion hazards noted. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protective equipment.

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits. Ensure adequate ventilation.

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

For emergency responders

As detailed in section for non-emergency personnel. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4. Reference to other sections

For personal protection, see section 8.

For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Static electricity and formation of sparks must be prevented. Do not breathe dust from this material. Avoid contact with eyes.

Avoid prolonged exposure. Forms smooth, slippery surfaces on floors, posing an accident risk. Practice good housekeeping.

7.2. Conditions for safe storage, including any incompatibilities

Avoid dust formation. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in air-tight containers-material is hygroscopic. Guard against dust accumulation of this material. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

The specified uses for this material are shown in section 1 of this document

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Additional components	Type	Value	Form
General dust	TWA	4 mg/m ³ 10 mg/m ³	Respirable dust. Inhalable dust.

United Kingdom Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m ³	Inhalable dust.

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
Amorphous silica (CAS 7631-86-9)	Industry	Inhalation	4 mg/m ³	Respirable fraction.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Eye wash fountain is recommended. Keep working clothes separately. Launder contaminated clothing before reuse.

Eye/face protection Wear safety glasses with side shields (or goggles). Avoid contact with eyes. (EN166)

Skin protection

Hand protection Suitable gloves can be recommended by the glove supplier. Use protective gloves made of: PVC or other plastic material gloves. (EN374)

Other Normal work clothing (long sleeved shirts and long pants) is recommended. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Safety Data Sheet



Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Dust Mask. Respirator type FFP2 or FFP3 (EN 149:2001)
Thermal hazards	None known.
Hygiene measures	Do not get this material in contact with eyes. Do not breathe dust. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	No special measures required

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Dry flowable granules.
Physical state	Solid.
Form	Powder. Granules Beads
Colour	White.
Odour	Odourless.
Odour threshold	Not available.
pH	> 3.5 as a suspension @ 100g/l in water
Melting point/freezing point	> 1710°C (> 3110°F)
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable.
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not applicable
Flammability limit - upper (%)	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Solubility (other)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Bulk density	700.00 - 750.00 kg/m ³
Percent volatile	0 % estimated

SECTION 10: Stability and reactivity

10.1. Reactivity

Material is stable under normal conditions.

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Avoid conditions which create dust. Contact with incompatible materials. Heat is evolved on contact with water

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

No dangerous reaction known under conditions of normal use.

SECTION 11: SECTION 11: Toxicological information

General information

Occupational exposure to the substance or mixture may cause adverse effects. This product has no known adverse effect on human health.
Data shown in this section has been published in the substance(s) REACH dossier
Dust may be slightly irritating to eyes and respiratory tract.
Prolonged skin contact may cause skin irritation and/or dermatitis.

Information on likely routes of exposure

Inhalation

Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact

Dust or powder may irritate the skin.

Eye contact

Dust in the eyes will cause irritation.

Ingestion

Not classified.

Symptoms

Possible irritant effects. Dusts may irritate the respiratory tract, skin and eyes. None known.

11.1. Information on toxicological effects

Components	Species	Test results
Amorphous silica (CAS 7631-86-9)		
Acute		
Dermal LD50	Rabbit	> 5000 mg/kg Occluded (dermal)
Inhalation LC0	Rat	>= 0.69 mg/l, 4 hours
Oral LD50	Rat	> 5000 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Based on available data, the classification criteria are not met. Not irritating: OECD 404
Serious eye damage/eye irritation	Dust in the eyes will cause irritation.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Amorphous silica (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	Not applicable.
Other information	This product has no known adverse effect on human health.

SECTION 12: Ecological information

12.1. Toxicity

Not expected to be harmful to aquatic organisms.

Components		Species	Test results
Amorphous silica (CAS 7631-86-9)			
	Aquatic		
	Algae	NOEL	Algae > 10000 mg/l, 72 hours
	Crustacea	EC50	Daphnia > 10000 mg/l, 24 hours
	Fish	LC0	Zebra danio (Danio rerio) > 10000 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability

The product solely consists of inorganic compounds which are not biodegradable.

12.3. Bioaccumulative potential

Does not bioaccumulate.

Partition coefficient

n-octanol/water (log Kow) Not applicable. (inorganic substance)

Bioconcentration factor (BCF) Not available.

12.4. 12.4. Mobility in soil

Insoluble and thus presents a low mobility in most soils

Mobility in general The product is immiscible with water and will sediment in water systems.

12.5. Results of PBT and vPvB assessment

Not applicable.

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects

Based on available data, there is no evidence of significant toxicity of Synthetic Amorphous Silica to environmental organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Material should be recycled if possible. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Where possible recycling is preferred to disposal or incineration. Dispose of as unused product.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

Not applicable.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry
Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended
Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use
Not regulated.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.

Not regulated.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Always applicable.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

This product is in compliance with Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronics equipment (RoHS).

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

Chemical Safety Assessment has been carried out.

Safety Data Sheet



International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

SECTION 16: Other information

List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	Not applicable.

Part Number
MC3090083

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