

# Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

**BROWNELL**  
L I M I T E D

**Trade Name:** Brownell Limited

**Product No:** Non-Indicating Silica Gel (White Gel)

**Version No:** MCS/107/MSDS – 08 / EN

**Revision Date:** 25.10.2021

**Print Date:** 25.10.2021

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

### 1.1 Product identifier

<b>Trade name or designation of the mixture</b>	Non-Indicating Silica Gel (White Gel)
<b>Registered number</b>	01-2119379499-16-0124
<b>Synonyms Issue</b>	Amorphous silicon dioxide * synthetic amorphous silica
<b>Date Version</b>	25 <sup>th</sup> October 2021
<b>Number Revision</b>	08
<b>Date Supersedes</b>	16 <sup>th</sup> June 2020

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

<b>Identifier uses</b>	Desiccant. For adsorption of moisture and prevention of corrosion and mould growth.
<b>Uses advised against</b>	None known

### 1.3 Details of the supplier of the safety data sheet

<b>Supplier Name</b>	Brownell Limited
<b>Address</b>	Unit 2, Abbey Road Industrial Park Commercial Way Park Royal London NW10 7XF
<b>Country</b>	UK
<b>Telephone</b>	+44 (0) 208 965 9281
<b>Fax</b>	+44 (0) 208 965 3239
<b>Email</b>	info@brownell.co.uk
<b>Contact</b>	Neil Partridge
<b>Website</b>	www.brownell.co.uk

**1.4 Emergency telephone number** +44 (0) 208 965 9281 – (08:00 – 17:00) office hours

## 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.

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## Hazard summary

<b>Physical hazards</b>	Not classified as a physical hazard.
<b>Human health hazards</b>	Not classified as a health hazard.
<b>Environmental hazards</b>	Not classified as an environmental hazard.
<b>Specific hazards</b>	This product has the potential for generation of respirable dust during handling and use. For additional information on inhalation hazards, see Section 11 of this safety data sheet.
<b>Main symptoms</b>	Repeated exposure may cause skin dryness or cracking. Exposure to powder or dusts may be irritating to eyes, nose and throat.

## 2.2 Label elements

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

<b>Product identifier</b>	Not applicable
<b>Hazard statements</b>	This substance does not meet the criteria for classification.
<b>Precautionary statements</b>	
<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Supplemental hazard information</b>	Not applicable
<b>Special rules for supplemental label elements for certain mixtures</b>	Not applicable
<b>Additional labeling</b>	Not applicable

**2.3 Other hazards** Not known

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

<b>Substance name</b>	Amorphous Silica (>98)
<b>Index No</b>	-
<b>EC No</b>	231-545-4
<b>REACH Registration No</b>	01-2119379499-16-0124
<b>CAS No</b>	7631-86-9

<b>Purity</b>	Not Applicable
<b>Synonyms</b>	Amorphous silica dioxide * synthetic amorphous silica
<b>Stabilisers</b>	Not Applicable
<b>Hazard Impurities</b>	Not Applicable

**3.2 Mixtures** Not applicable

**Additional information** This mixture does not contain further substances fulfilling the criteria of hazard class “acute toxicity” according.

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## 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

Remove to fresh air. Get medical attention for any breathing difficulty.

#### Skin contact

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

#### Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

#### Ingestion

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

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

#### Symptoms

Dust may irritate the respiratory tract, skin and eyes.

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

#### Notes for the doctor

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## 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

Do not use water jet as an extinguisher, as this will spread the fire.

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

#### Hazardous combustion products

No unusual fire or explosion hazards noted

### 5.3 Advice for firefighters

#### Additional information

Wear self-contained breathing apparatus and protective clothing

## SECTION 6: Accidental release measure

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

#### For non-emergency personnel

#### Protective equipment

Use personal protective equipment to avoid inhalation of dust from the spilled material. Wear a dust mask, if dust is generated above exposure limits. Ensure adequate ventilation. Keep unnecessary personnel away.

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## Emergency procedures

Spills: Sweep up and containerise for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Regulations require reporting spills and releases to soil, water and air in excess of reportable quantities. Ensure adequate ventilation.

## 6.2 Environmental precautions

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

## 6.3 Methods and materials for containment and cleaning up

### For containment

Contain spillage, collect material using a vacuum cleaner equipped with HEPA filter and collect in suitable container for disposal.

### For cleaning up

Sweep up or vacuum up spillage to avoid the generation of dust during clean-up and collect in suitable container for disposal.

## 6.4 Reference of other sections

### Additional information

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

#### Protective measures

#### Advice on safe handling

Wear appropriate personal protective equipment. Do not breathe dust from this material, avoid creating any dust and contact with skin and eyes as this may cause irritation.

#### Fire preventions

During handling electrostatic charges can accumulate, therefore static electricity and formation of sparks must be prevented, use proper bonding and/or grounding procedures.

#### Aerosol and dust generation preventions

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed.

#### Environment precautions

No special environmental precautions required.

#### Advice on general occupational hygiene

Observe good industrial hygiene practices.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Suitable for any general chemical storage area. Provide appropriate exhaust ventilation at places where dust is formed.

#### Packaging materials

Keep all material in an air-tight container, material is hygroscopic.

#### Requirements for storage rooms and vessels

All containers must be kept in a dry, cool place. Store in a well-ventilated place.

#### Hints on storage assembly:

#### Storage class

Not Available

#### Materials to avoid

Not Applicable

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## 7.3 Specific end uses

**Recommendations**

Not applicable

**Specific end uses**

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### 8.1.1 Occupational exposure limits:

##### United Kingdom

Components	Type	Value	Form
Amorphous Silica (CAS 7631-86-9)	TWA	6 mg/m <sup>3</sup>	Inhalable dust
		2.4 mg/m <sup>3</sup>	Respirable dust

#### UK. EH40 Workplace Exposure Limited (WELs)

Components	Type	Value	Form
General Dust	TWA	10 mg/m <sup>3</sup>	Inhalable dust
		4 mg/m <sup>3</sup>	Respirable dust

#### 8.1.2 Biological limits values

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

#### 8.1.3 Exposure limits at intended use

Not applicable

#### 8.1.4 DNEL/PNEC-values

**Substance name:**

Non-Indicating Silica Gel (White Gel)

##### DNEL

Components	Type	Route	Value	Form
Amorphous Silica (CAS 7631-86-9)	Industry	Inhalation	4 mg/m <sup>3</sup>	Respirable fraction

**PNEC**

Not Available

#### 8.1.5 Risk management measures according to used control banding approach

Not applicable

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## 8.2 Exposure controls

**8.2.1 Appropriate engineering controls:** Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), control of process conditions and suitable respiratory protection must be worn, if OEL concentration levels are high.

## 8.2.2 Personal protective equipment

### Eye / Face protection:

**Suitable eye protection** Avoid contact with eyes. Wear safety glasses with side shields. (EN166). Use tight fitting goggles, if dust is generated.

### Skin protection:

#### Hand protection

Protective gloves are recommended. (EN374) Use protective gloves made of: PVC or other plastic material gloves.

#### Body protection

Normal work clothing (long sleeves 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.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator type FFP2 or FFP3 (EN 149:2001) or dust mask.

#### Thermal hazards

None Known

## 8.2.3 Environmental exposure controls

### Consumer exposure control

**Consumer use:** Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Do not get this material in contact with eyes. Routinely wash work clothing and protective equipment to remove contaminants.

#### Service Life

Not Known

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state:** Solid

**Form:** Powder, Granules and Beads

**Colour:** White

**Odour:** Odourless

#### Value

**pH** >3.5 as a suspension @100g/l in water

**Melting Point/Freezing point** 1710 °C (>3110 °F)

**Boiling Point** Not available

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<b>Flash Point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/lower flammability or explosive limits</b>	
<b>Upper explosive limits</b>	Not applicable
<b>Lower explosive limits</b>	Not applicable
<b>Vapour pressure</b>	Not applicable
<b>Vapour density</b>	Not applicable
<b>Relative density</b>	Not available
<b>Solubility(ies)</b>	Insoluble
<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not applicable
<b>Viscosity, dynamic</b>	Not available
<b>Viscosity, cinematic</b>	Not available
<b>Explosive properties</b>	Not explosive
<b>Oxidising properties</b>	Not oxidising
<b>9.2 Other information:</b>	
<b>Physical hazards</b>	
<b>Explosives:</b>	Not explosive
<b>Flammable gases:</b>	Not applicable
<b>Flammable aerosols:</b>	Not applicable
<b>Oxidising gases:</b>	Not oxidising
<b>Gases under pressure:</b>	Not available
<b>Flammable liquids:</b>	Not applicable
<b>Flammable solids:</b>	Not applicable
<b>Self-reactive substances and mixtures</b>	Not available
<b>Pyrophoric liquids</b>	Not available
<b>Pyrophoric solids</b>	Not available
<b>Self-heating substances and mixtures</b>	Not available
<b>Substances or mixtures which, in contact with water emit flammable gases</b>	Not available
<b>Oxidising liquids</b>	Not available
<b>Oxidising solids</b>	Not available
<b>Organic peroxides</b>	Not available
<b>Metal corrosion</b>	Not available
<b>Bulk Density</b>	700.00 – 750.00 kg/m <sup>3</sup>
<b>Percent volatile</b>	0% estimated

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## 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** Heat is evolved on contact with water. Avoid conditions which create dust. Contact with incompatible materials.
- 10.5 Incompatible materials** None known.
- 10.6 Hazardous decomposition products** No dangerous reaction known under conditions of normal use.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### 11.1.1 Substances

##### Acute toxicity: Animal data

Substance	Effect dose / concentration	Value	Species
Acute oral toxicity	LD50	>5000mg/kg	Rat
Acute dermal toxicity	LD50	>5000mg/kg	Rabbit
Acute inhalation (gas)	-	-	-
Acute inhalation (vapour)	-	-	-
Acute inhalation (dust/mist)	LC0	>=0.69mg/l, 4 hours	Rat

- Skin corrosion/irritation** Not classified. Not irritating: OECD 404
- Eye damage/irritation** Dust in the eyes will cause irritation.
- Sensitisation to the respiratory tract/skin** Not classified. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
- Germ cell mutagenicity** Not available
- Carcinogenicity** Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3).
- Reproductive toxicity** Not available
- Specific target organ toxicity (single exposure)** Not available
- Specific target organ toxicity (repeated exposure)** Not available
- Aspiration hazard** Not available.



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## Physical, chemical and toxicological characteristics

**In case of ingestion** No data available

**In case of skin contact** Dust may irritate the skin and cause a drying effect on the skin.

**In case of inhalation** Dust may irritate respiratory system. Prolonged inhalation may be harmful. Synthetic amorphous silica gel has little adverse effect on lungs and does not produce significant toxic effects when exposure is kept below the permitted limits. However existing medical conditions (e.g. asthma, bronchitis) may be aggravated by exposure to dust and lower levels of exposure are less likely to affect smokers compared to non-smokers.

**In case of eye contact** Dust may cause discomfort and mild irritation.

**11.1.2 Mixtures** No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

	Effect dose/- concentration	Value	Test duration	Species
Amorphous Silica (CAS 7631-86-9)	NEOL	>10000 mg/l	72 hours	Algae
	EC50	>10000 mg/l	24 hours	Daphnia
	LC0	>10000 mg/l	96 hours	Zebra Danio

**12.2 Persistence and degradability** The product solely consists of inorganic compounds which are not biodegradable. The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential** Does not bioaccumulate.

**Environmental fate – Partition coefficient** Not applicable. (inorganic substance).

**12.4 Mobility in soil** Insoluble and thus presents a low mobility in most soils.

**12.5 Results of PBT and vPvB assessment** Not applicable.

**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

**Product / packaging disposal** Material should be recycled if possible.  
Dispose of in accordance with local regulations.

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<b>Waste codes / waste designations according to EWC/AVV</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Packaging</b>	Where possible recycling is preferred to disposal or incineration.
	Dispose of an unused product.
<b>Waste treatment options</b>	Collect and reclaim or dispose in sealed containers at licenced waste disposal waste disposal site. Dispose in accordance with all appliance regulations.
<b>Other disposal recommendations</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

<b>14.1 UN No.</b>	Not available
<b>14.2 UN Proper Shipping name</b>	Not available
<b>14.3 Transport hazard class(es)</b>	Not available
<b>Hazard label(s)</b>	Not available
<b>14.4 Packing group</b>	Not available
<b>14.5 Environmental hazards</b>	Not available
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
<b>Land transport (ADR/RID)</b>	Not regarded as dangerous goods
<b>Inland Waterway transport (ADN)</b>	Not regarded as dangerous goods
<b>Sea transport (IMDG)</b>	Not regarded as dangerous goods
<b>Air transport (ICAO-TI / IATA-DGR)</b>	Not regarded as dangerous goods

## SECTION 15: Regulatory information

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

#### 15.1.1 EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed

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

Not listed

**Regulation (EC) No. 649/2012 concerning the export and import of dangerous chemicals Annex I, part 1**

Not listed

**Regulation (EC) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, part 2**

Not listed

**Regulation (EC) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, part 3**

Not listed

**Regulation (EC) 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 listed

**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

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## **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).

## **15.1.2 National regulations**

Follow national regulation for work with chemical agents.

## **15.2 Chemical safety assessment**

Chemical Safety Assessment has been carried out.

### **International Inventories**

#### **Country(s) or region**

Australia

#### **Inventory name**

Australian Inventory of Chemical Substances (AICS)

#### **On inventory (yes/no)\***

Yes

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substance 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

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

## SECTION 16: Other information

### 16.1 Indication of changes

MSDS first issued	5 <sup>th</sup> October 2000
MSDS 1 <sup>st</sup> revision	20 <sup>th</sup> November 2008
MSDS 2 <sup>nd</sup> revision	12 <sup>th</sup> October 2011
MSDS 3 <sup>rd</sup> revision	4 <sup>th</sup> March 2014
MSDS 4 <sup>th</sup> revision	1 <sup>st</sup> May 2015
MSDS 5 <sup>th</sup> revision	21 <sup>st</sup> February 2017
MSDS 6 <sup>th</sup> revision	16 <sup>th</sup> May 2020

### 16.2 Abbreviations and acronyms

Amorphous silica dioxide \* synthetic amorphous silica

### 16.3 Key literature references and sources for data

ECHA European Chemicals agency

### 16.4 Classification for mixtures & used evaluation method according to regulation (EC) 1207/2008 [CLP]

Please refer to section 2.1

### 16.5 Relevant R-, H- and EUH-phrases (number and full text)

Not applicable

### 16.6 Training advice

Not available

### 16.7 Further information

Not available

### Disclaimer

The information provided in the SDS is correct to the best of our knowledge at the date of publication. This document is intended as a guide for safe handling, storage and use in known industrial applications. The manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness nor assumes any liability for its use. It is the users responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision.