SAFETY DATA SHEET

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

1.1 Product identifier

Trade name of the substance	SILICA GEL Non-Indicating
Order code:	AVN-780-0010K, AVN-780-0020K, AVN-780-0030K, AVN-780-0040K
Identification number	-
Registration number	01-2119379499-16-0124
Product registration number	Not available.
Synonyms	amorphous silicon dioxide * synthetic amorphous silica
Issue date	03-February-2014
Version number	01
Revision date	-
Supersedes date	-

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	Avon
Address	Wigston, Leicester, LE18 2FS
Country	U.K.
Telephone	+44 (0)116 288 8000
Fax	+44 (0)116 288 8222
Manufacturer	GeeJay Chemicals Ltd.
Address	1 Beamish Close, Sandy, Bedfordshire, SG19 1SD
Country	U.K.
Telephone	+44 (0)1767 682774
Fax	+44 (0)1767 699697
e-mail	sales@geejaychemicals.co.uk
Contact	Gary Covington
Web site	www.geejaychemicals.co.uk
1.4 Emergency number	+44 (0)1767 682774 (08:00 - 16:30)

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 Directive 67/548/EEC or 1999/45/EC as amended

This substance does not meet the criteria for classification according to Directive 67/548/EEC as amended.

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

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	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. Slippery, can cause falls if walked on.
Main symptoms	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

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

Identification number	-
Hazard statements	The substance does not meet the criteria for classification.

Precautionary statements

Prevention	Not applicable
Response	Not applicable
Storage	Not applicable
Disposal	Not applicable

Supplemental label information Not applicable.

2.3 Other hazards Not assigned.

Section 3: Composition/information on ingredients

3.1 Substance

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Silicon dioxide	>98	7631-86-9 231-545-4	01-2119379499-16-0124	-	#
Classification: **DSD:** -					
CLP: -					

CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.
#: This substance has 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	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 Irritant effects.

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.

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 firefighting procedures No unusual fire or explosion hazards noted. Move containers from fire area if you can do so without risk.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel In case of spills, beware of slippery floors and surfaces.
Keep unnecessary personnel away. Ensure adequate ventilation.
Use personal protective equipment.
Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.

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

6.2 Environmental precautions No special environmental precautions required.

6.3 Methods and material for containment and cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid the generation of dusts during clean-up.

6.4 Reference to other sections 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 Practice good housekeeping. Avoid contact with eyes.
Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust from this material.
Static electricity and formation of sparks must be prevented.
Forms smooth, slippery surfaces on floors, posing an accident risk.

7.2 Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep in air-tight containers- material is hygroscopic.
Avoid dust formation. Guard against dust accumulation of this material.

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

United Kingdom

Components	Type	Value	Form
Silicon dioxide (7631-86-9)	TWA	6 mg/m3	Inhalable dust.
		2.4 mg/m3	Respirable dust.

UK. EH40 Workplace Exposure Limits (WELs)

Additional components	Type	Value	Form
Nuisance dust. (CAS:N/A)	TWA	10 mg/m3	Inhalable dust.
		4 mg/m3	Respirable dust.

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

Recommended monitoring procedures Follow standard monitoring procedures.

DNEL

Components	Type	Route	Value	Form
Silicon dioxide (7631-86-9)	Industry	Inhalation	4 mg/m3	Respirable fraction.

PNEC Not available.

8.2 Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas. 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.

Individual protection measures, such as personal protective equipment

General information Eye wash fountain is recommended. Keep working clothes separately. Launder contaminated clothing before reuse.

Eye/face 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.

- 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.

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

Thermal hazards None known.

Hygiene measures 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.

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 Granular. Beads.

Colour White.

Odour Odourless.

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

Melting point/freezing point > 1710 °C (> 3110 °F)

Boiling point, initial boiling point, and boiling range Not available.

Flash point Not applicable.

Auto-ignition temperature Not applicable.

Flammability (solid, gas) Not applicable.

Flammability limit - lower (%) Not applicable.

Flammability limit - upper (%) Not applicable.

Vapour pressure Not applicable.

Vapour density Not applicable.

Evaporation rate	Not applicable.
Relative density	Not available.
Density	Not available
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Bulk density	700.0 - 750.0 kg/m3
Viscosity	Not available.
Percent volatile	0 % estimated
9.2 Other information	No relevant additional information available.

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.
10.5 Incompatible materials	None known.
10.6 Hazardous decomposition products	No dangerous reaction known under conditions of normal use.

Section 11: Toxicological information

General information Data shown in this section has been published in the substance(s) REACH dossier
This product has no known adverse effect on human health.
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

Ingestion	Not classified.
Inhalation	Not classified.
Skin contact	Not classified.
Eye contact	Not classified. Dust in the eyes will cause irritation.
Symptoms	None known. Possible irritant effects.

11.1 Information on toxicological effects

Acute toxicity Not classified

Components	Test results
Silicon dioxide (7631-86-9)	Acute Dermal LD50 Rabbit: > 5000 mg/kg Acute Oral LD50 Rat: > 5000 mg/kg

Skin corrosion/irritation	Not classified. Not irritating: OECD 404
Serious eye damage/eye irritation	Not classified. Dust in the eyes will cause irritation.
Respiratory sensitisation	Not classified.
Skin sensitisation	Not classified. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silicon dioxide (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
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

Components	Test results
Silicon dioxide (7631-86-9)	NOEL Algae: > 10000 mg/l 72.00 hours
	EC50 Daphnia: > 10000 mg/l 24.00 hours

Components	Test results
Silicon dioxide (7631-86-9)	LC0 Zebra danio (Danio rerio): > 10000 mg/l 96.00 hours

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

Ecotoxicity	Not expected to be harmful to aquatic organisms.
12.2 Persistence and degradability	The product solely consists of inorganic compounds which are not biodegradable.
12.3 Bioaccumulative potential	Does not bioaccumulate.
Mobility	The product is immiscible with water and will sediment in water systems.
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. 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.
Contaminated packaging	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.

Section 14: Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

Section 15: Regulatory information

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

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

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

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Commission Decision 2000/479/EC on the implementation of a European pollutant emission register (EPER)

Not listed.

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

Other regulations	This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Prepared in accordance with Annex II of the REACH Regulation (EC) 1907/2006 as amended by Commission Regulation (EU) 453/2010), and with CLP Regulation (EC) 1272/2008
National regulations	Not available.
15.2 Chemical safety assessment	Chemical Safety Assessment has been carried out.

Inventory status

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 available.
Full text of any statements or R-phrases and H-phrases under Sections 2 to 15	None.

Training information	Not available.
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