

# Safety Data Sheet

## Section 1: Identification of the Substance/Mixture

### 1.1 Product identifier

Product Name **Exfoliant BFG 50**

Synthetic amorphous silica

CAS No 112926-00-8

EINECS No 231-545-4

REACH Registration No 01-2119379499-16-0046

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

Identified use(s) Additive for use in a wide range of applications including personal care. Toothpaste additive. Identified uses are describe further after section 16 of this document.

Uses advised against None known.

## Section 2: Hazards Identification

### 2.1 Classification of the substance or mixture

GHS Classification Not classified as dangerous for supply/use.

EC Classification Not classified as dangerous for supply/use.

Hazards summary Exposure to any kind of dust is potentially harmful.

### 2.2 Label elements

Hazard statement(s) None

Precautionary statement(s) None

2.3 Other hazards Not classified as PBT or vPvB

## Section 3: Composition/Information on ingredients

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	Hazard symbol(s) and hazard statement(s)
Synthetic amorphous silica	> 80%	112926-00-8	231-545-4 01-2119379499-16	Not classified
Water	< 20%	7732-18-5	231-791-2	

## **Section 4: First Aid Measurements**

### 4.1 Description of the first aid measures

Eye Contact	If substance has got into the eyes, immediately wash out with plenty of water. Obtain immediate medical attention.
Skin Contact	Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.
Inhalation	Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.
Ingestion	Do not induce vomiting. Wash out mouth with water. If large amount swallowed or symptoms develop obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed  
Exposure to any kind of dust is potentially harmful.

4.3 Indication of any immediate medical attention and special treatment needed  
See Section: 4.1

## **Section 5: Fire-Fighting Measures**

### 5.1 Extinguishing media

Suitable Extinguishing Media	Compatible with all standard fire fighting techniques.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture  
Not applicable. Inorganic powder or granules. Non-combustible.

5.3 Advice for fire-fighters                      None

## **Section 6: Accidental Release Measures**

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

Wear suitable protective clothing. Wear eye/face protection. See section: 8.2

An approved dust mask should be worn if dust is generated during handling.

### 6.2 Environmental precautions

Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment.

### 6.3 Methods and materials for containment and cleaning up

Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

6.4 Reference to other sections                      See also Section 8

## **Section 7: Handling and Storage**

7.1 Precautions for safe handling Avoid generation of dust. Handle in accordance with good industrial hygiene and safety practices.

See also section 8.

A considerable static electrical charge can be built up during mechanical handling which may become a hazard in atmospheres containing flammable vapors. Advice on the control of static is given in British Standard BS 5958.

7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed and dry.

7.3 Specific end use(s) Identified uses are described further after section 16 of this document.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

Substance	Occupational Exposure Limits
Synthetic amorphous silica	UK EH40: Silica amorphous Total inhalable dust: WEL 6 mg/m <sup>3</sup> 8h TWA. Respirable dust: WEL 2.4 mg/m <sup>3</sup> 8h TWA US ACGIH: Silica, Amorphous - Precipitated silica and silica gel:TLV withdrawn 2006 US OSHA: Silica amorphous - Precipitated silica: PEL 6mg/m <sup>3</sup> 8h TWA

Derived No Effect Level (DNEL)	Oral / mg/ kg bw/d	Inhalation / mg/m <sup>3</sup>	Dermal / mg/kg bw/d
Workers - Acute - Systemic effects	-	-	-
Workers - Acute - Local effects	-	-	-
Workers - Long Term - Systemic effects	-	-	-
Workers - Long Term - Local effects	-	4	-
Consumers - Acute - Systemic effects	-	-	-
Consumers - Acute - Local effects	-	-	-
Consumers - Long Term - Systemic effects	-	-	-
Consumers - Long Term - Local effects	-	-	-

Risk management measures (RMMs) for identified uses must be implemented as described in this SDS.

	Predicted No Effect Concentration
--	-----------------------------------

PNEC Water (fresh)	No PNEC quantifiable due to high tolerance in acute testing.
PNEC Water (marine)	No PNEC quantifiable due to high tolerance in acute testing.
PNEC Water (intermittent)	No PNEC quantifiable due to high tolerance in acute testing.
PNEC Sediment	No PNEC quantifiable due to high tolerance in acute testing.
PNEC Soil	Not applicable
PNEC Sewage treatment plant	Not applicable
PNEC Secondary Poisoning (oral)	60000 mg/kg food

## 8.2 Exposure controls

Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

### 8.2.1 Appropriate engineering controls

Engineering methods to prevent or control exposure are preferred. Methods include process or personal enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

### 8.2.2 Personal Protection

#### Respiratory protection

Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

#### Eye/face protection

Safety spectacles. Eye protection with side protection (EN 166).

#### Skin protection

Wear suitable protective clothing and gloves.

Plastic or rubber gloves. For example EN374-3.

Wear suitable overalls.

### 8.2.3 Environmental Exposure Controls

Avoid generation of dust.

## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Granules, white

Odour	Odourless
Odour Threshold (ppm)	Not applicable
pH (Value)	3 - 10 at 5% w/w in water
Freezing Point ('C)	Not applicable
Melting Point ('C)	> 1000
Boiling Point ('C)	Not applicable
Flash Point ('C) closed cup	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapour Pressure (mm Hg)	Not applicable
Vapour Density (Air = 1)	Not applicable
Density (g/ml)	No data
Solubility (Water)	Insoluble
Solubility (Other)	No data
Partition Coefficient	No data
Auto Ignition Point ('C)	Not applicable
Decomposition Temperature ('C)	Not applicable
Viscosity (mPa. s)	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable
9.2 Other Information	No data

## Section 10: Stability and Reactivity

10.1 Reactivity	See section: 10.3
10.2 Chemical stability	This product is hygroscopic
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	See section: 10.3
10.5 Incompatible materials	See section: 10.3
10.6 Hazardous decomposition product(s)	None known.

## Section 11: Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Ingestion

The lethal dose for humans for synthetic amorphous silica is estimated at over 15000 mg/kg bw.

Synthetic amorphous silica is a permitted food additive in the UK, US and many other countries. Oral LD50 (rat) > 3100 mg/kg bw

##### Inhalation

Synthetic amorphous silica has little adverse effect on lungs and does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However, existing medical conditions (eg. asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be

	greater, and occur at lower levels of exposure in smokers compared to non-smokers.
Skin Contact	Dust may have a drying effect on the skin. Dermal LD50 (rabbit) > 5000 mg/kg bw.
Eye Contact	Dust may cause discomfort and mild irritation.
Skin corrosion/irritation	Non-irritant. Dust may have a drying effect on the skin.
Serious eye damage/irritation	Non-irritant
Sensitisation	Not sensitising
Mutagenicity	No evidence of genotoxicity. In vitro/ in vivo negative
Carcinogenicity	IARC assessment: Amorphous silica is not classified as to its carcinogenicity to humans (Group 3)
Reproductive toxicity	No evidence of reproductive toxicity or development toxicity
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified. NOAEL oral (rat) >4000 mg/kg bw/d
Aspiration hazard	Not classified
Other information	Not applicable

## Section 12: Ecological Information

12.1 Toxicity	Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment. Fish (Brachydanio rerio) LL50 (96 hour) >10000 mg/l Aquatic invertebrates: (Daphnia magna)EL50 (24 hours)>10000 mg/l
12.2 Persistence and degradability	Inorganic
12.3 Bioaccumulative potential	Inorganic. The substance has no potential for bioaccumulation
12.4 Mobility in soil	Not applicable
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None

## Section 13: Disposal Considerations

13.1 Waste treatment methods	Disposal should be in accordance with local, state or national legislation. This product normally causes no problems in sewage treatment works, where it settles with the sewage sludge. The material is not classified as hazardous waste under EC Directive 2008/98/EC (and amendments). This
------------------------------	---

material is not classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894. May be disposed of by landfill in accordance with local regulations.

#### **Section 14: Transport Information**

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'

14.1 UN number	Not applicable
14.2 Proper Shipping Name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	None. No special packaging requirements
14.7 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

TSCA Inventory Status:	Reported/Included CAS No 7631-86-9
AICS Inventory Status:	Reported/Included
DSL/NDSL Inventory Status:	Reported/Included

German Water Hazard Classifications VwVwS: Product ID number 849, not hazardous to water - nag

15.2 Chemical Safety Assessment Information available on request

#### **Section 16: Other Information**

This SDS was last reviewed: 10/2022