

Issue Date: July 13<sup>th</sup>, 2020  
Review Date: July 13<sup>th</sup>, 2020  
Print Date: 14 July 2020  
Version: BPM 443 – 1.0

# SAFETY DATA SHEET



## Section 1 – Product and Company Identification

**1.1 Product Name:** Sfär HC  
**1.2 Product Code:** 9443  
**1.3 Recommended Use:** Laboratory chemical  
**Uses advised against:** Not for therapeutic or diagnostic use  
**1.4 Company Name:** Biotage GB Limited,  
Dyffryn Business Park,  
Hengoed, CF82 7TS  
UK

### 1.5 Contact details:

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## Section 2 – Hazards Identification

### 2.1 Classification of the product

This product is not classified as dangerous according to Regulation (EC) No. 1272 / 2008 (GHS / CLP) or Directive 1999 / 45 / EC

### 2.2 Label elements

Not a dangerous substance according to Regulation (EC) No. 1272 / 2008

### 2.3 Other hazards

Slip hazard – may cause floors to become very slippery if spilt

## Section 3 – Composition/Information on Ingredients

Name:	<b>Sfär HC</b>			
Synonyms:	Silicon dioxide; Synthetic amorphous silica gel			
CAS – No.	EC – No.	Index – No.	Classification	Concentration
7631 – 86 – 9	231 – 545 – 4	-	-	> 99%

## Section 4 – First Aid Measures

**4.1 Inhalation:** If inhaled, move affected person to fresh air. If breathing is difficult give oxygen. If breathing has stopped give artificial respiration. Seek medical attention  
**4.2 Skin Contact:** Wash with soap and plenty of water. Get medical advice if irritation develops  
**4.3 Eye Contact:** Wash thoroughly with plenty of water for at least 15 minutes, separating the eyelids with the fingers. Get medical attention immediately  
**4.4 Ingestion:** Wash out mouth with copious amounts of water if person is conscious. Never give anything by mouth to an unconscious person. Afterwards drink plenty of water

## Section 5 – Fire-Fighting Measures

### 5.1 Suitable Extinguishing Media

Use dry chemical, CO<sub>2</sub>, water spray or alcohol – resistant foam extinguishers appropriate to surrounding conditions

### 5.2 Unusual Fire Hazards and Explosion Hazards

This material is not flammable

### 5.3 Special protective equipment for Fire Fighters

Wear self contained breathing apparatus for fire fighting if necessary

## Section 6 – Accidental Release Measures

### 6.1 Personal precautions

Ventilate the area thoroughly and shut off sources of ignition. Use protective equipment as described in Section 8. Avoid raising dust. Avoid breathing dust, vapours, mist or gas

### 6.2 Environmental Precautions

Do not let product enter drains

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

Pick up without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Caution:** Slip Hazard. Floor may be slippery even when dry due to spherical beads

## Section 7 – Handling and Storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for safe storage

Keep container tightly closed in a dry and well – ventilated place. Store in a cool place, out of direct sunlight and away from incompatible substances

## Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits	CAS Number	LEL (8hr TWA, ppm)	LEL 8hr TWA mg/m <sup>3</sup>	STEL (ppm)	STEL mg/m <sup>3</sup>	Note
Silica, amorphous (Total Inhalable Dust)	7631-86-9	-	6	-	-	WEL
Silica, amorphous (Respirable Dust)	7631-86-9	-	2.4	-	-	WEL

### 8.1 Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. For nuisance exposures use type N95 (US) or type P1 (EU EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

#### Hand protection

Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89 / 686 / EEC and the standard EN 374 derived from it. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the outer surface of the glove) to avoid skin contact with product. Dispose of gloves after use in accordance with applicable regulations and good laboratory practice. Wash and dry hands

#### Eye protection

Safety glasses with side – shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

#### Skin and body protection

Choose body protection in relation to its type, the concentration and the amount of dangerous substances, and to the specific workplace

#### Hygiene measures

Handle in accordance with good laboratory hygiene and safe practice. Wash hands before breaks and at the end of the workday

## Section 9 – Physical and Chemical Properties

### 9.1 Appearance

Form Spherical beads, 20 – 30µm diameter  
Colour White

### 9.2 Safety data

pH 5 – 6 (10% suspension in water)  
Density 0.2 – 0.6 g / mL (loose)  
Melting point 1 726°C  
Boiling point 2 230°C  
Flash point No data available  
Ignition temperature No data available  
Lower explosion limit No data available  
Upper explosion limit No data available  
Water solubility 120 mg/L in water @20°C

## Section 10 – Stability and Reactivity

### 10.1 Chemical stability

Stable under recommended storage conditions

### 10.2 Conditions to avoid

Avoid temperatures above 200°C

### 10.3 Materials to avoid

Molten alkali metals, hydrofluoric acids, hydrogen fluoride

### 10.4 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – silicon oxides

## Section 11 – Toxicological Information

To the best of our knowledge, the toxicological properties of this material have not been fully investigated

### (a) Acute toxicity / ingestion

LD50 / oral / rat = >5 000 mg / Kg

### (b) Skin corrosion / irritation

No data available

### (c) Serious eye damage / eye irritation

No data available

### (d) Respiratory or skin sensitisation

No data available

### (e) Germ cell mutagenicity

No data available

### (f) Carcinogenicity

No data available

### (g) Reproductive toxicity

No data available

### (h) Specific target organ toxicity – single exposure

No data available

### (i) Specific target organ toxicity – repeated exposure

No data available

### (j) Aspiration hazard

No data available

### (k) Potential health effects

This product has no known adverse effect on human health

**Inhalation** May cause respiratory tract irritation

**Ingestion**

**Skin** May cause skin irritation

**Eyes** May cause eye irritation

## Section 12 – Ecological Information

The eco- toxicological properties of this material have not been fully investigated

### 12.1 Toxicity

Not toxic to aquatic life

### 12.2 Persistence and degradability

No data available

### 12.3 Bio – accumulative potential

Does not bioaccumulate

### 12.4 Mobility in soil

The substance has low mobility in soil

### 12.5 PBT and vPvB assessment

Inorganic substance: PBT or vPvB criteria does not apply

### 12.6 Other adverse effects

No data available

## Section 13 – Disposal Considerations

### 13.1 Product

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

### 13.2 Contaminated packaging

Dispose of as unused product

## Section 14 – Transport Information

Not classified as dangerous goods by ADR / RID, IMDG, or IATA

## Section 15 – Regulatory Information

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

This safety data sheet complies with the requirements of Regulation (EU) 2015/830

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors: Neither banned nor restricted

Restrictions on the marketing and use of certain dangerous substances and preparations: Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Neither banned nor restricted

Candidate List of Substances of Very High Concern for Authorization: Neither banned nor restricted

US (TSCA): This substance is listed on the TSCA Inventory

## Section 16 – Other Information

This substance must only be handled by, or under close supervision of those qualified in the handling and use of potentially hazardous substances. This Safety Data Sheet is offered without charge to the clients of Biotage and it is issued only as a guide for safe handling, use, storage, disposal and release. Information contained on this sheet is the most current available to Biotage at the time of preparation but does not purport to be all inclusive or a guarantee as to the properties of the material supplied. Biotage makes no warranties or representations as to the accuracy and completeness of the information contained herein. Biotage shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

### Key to Abbreviations

**CAS**: Chemical Abstract Service. **NIOSH**: National Institute for Occupational Safety & Health. **ADR / RID**: Agreement on Dangerous Goods by Road / Regulations Concerning the transport of Dangerous Goods by Rail. **IMDG**: International Maritime Dangerous Goods Code. **IATA**: International Air Transport Association.