

## MATERIAL SAFETY DATA SHEET

**PRODUCT: SILICON DIOXIDE (SILICA)**

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Commercial Product Name

Mesoporous silicate

#### Synonyms

SILICA (powder)

#### Company Identification

Glantreo Ltd

ERI Building

Lee Road

Cork City

IRELAND

T; +353 21 4901965

F; +353 21 4901932

E; [info@glantreo.com](mailto:info@glantreo.com)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Consists of SILICA (powder)

Chemical name : SILICA

· Classification : Xi, R36

· CAS No. : 7631-86-9

· Reach No. : 01-2119379499-16-0036

· Weight : >99%

· Form : Powder

· Colour : White

· Odour : Odourless

Hazards Identification : Irritating to eyes.

### 3. HAZARDS IDENTIFICATION

Generally not hazardous in normal handling.

### 4. 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

Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Get prompt medical attention.

#### Ingestion

Drink lots of water. If large amounts were swallowed, get medical attention.

The information given has been obtained from numerous measures and is for guidance only. No guarantee is given or implied. For more information please contact Glantreo Ltd, ERI Building, Lee Road, Cork City, IRELAND +353 21 4901965

## **5. FIRE-FIGHTING MEASURES**

### **Fire and Explosion Hazard**

Negligible fire and explosion hazard

### **Suitable Extinguishing Media**

Any means suitable for extinguishing surrounding fire.

### **Specific hazards**

Not applicable.

### **Special Protective Equipment for Firefighter**

Wear appropriate clothing to prevent skin exposure.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions**

Avoid contact with skin and eyes.

### **Environmental Precautions**

No special environmental precautions required.

### **Methods for Cleaning up**

Shovel or sweep up. Shovel into suitable container for disposal. Avoid dust forming.

Avoid spillage from

entering drains or water courses. Dispose of as normal trade waste in compliance with local and national regulations.

## **7. HANDLING AND STORAGE**

### **Handling**

#### **Safe handling advice**

Avoid contact with skin and eyes. Avoid the formation of dust. Do not breathe dust.

Ensure adequate ventilation.

### **Storage**

#### **Technical measures / Storage conditions**

Keep container tightly closed (hygroscopic).

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Control Parameters**

#### **Exposure limit(s)**

Not available.

### **Personal Protection Equipment**

#### **Hygiene measures**

Avoid contact with skin and eyes. Avoid dust formation.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form : powder packed in Nalgene bottles
- Colour : White
- Odour : None
- pH : 3 - 8.5
- Boiling point/range : 2230 °C
- Melting point/range : 1610 °C
- Decomposition Temperature : >1600 °C
- Flash Point : Not applicable
- Flammability (solid, gas) : Not applicable
- Auto Ignition Temperature : Not applicable
- Explosive Properties : Not applicable

The information given has been obtained from numerous measures and is for guidance only. No guarantee is given or implied. For more information please contact Glantreo Ltd, ERI Building, Lee Road, Cork City, IRELAND +353 21 4901965

- Explosion Limits - lower : Not applicable
  - upper : Not applicable
  - Vapour Pressure : Negligible
  - Relative Density : Not applicable
  - Water Solubility : Negligible
  - Fat solubility : No data available
- Physical Appearance : White powder

## **10. STABILITY AND REACTIVITY**

### **Conditions to avoid**

Keep containers dry and tightly closed to avoid moisture absorption and contamination (hygroscopic).

### **Materials to avoid**

B<sub>2</sub>O<sub>3</sub> + CaO ; BrF<sub>3</sub>

### **Hazardous decomposition products**

Not applicable

## **MATERIAL SAFETY DATA SHEET**

**PRODUCT : Stopak Silica Gel Rev 1**

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity : None

Local Effects : Skin irritation, eye irritation.

Sensitization : No data available

Chronic Toxicity : None

Human Experience : Skin irritation, eye irritation.

## **12. ECOLOGICAL INFORMATION**

Persistence / Degradability : Stable

Bioaccumulation : No data available

Mobility : No data available

Ecotoxicity

- LC<sub>50</sub>/96h/Gambusia affinis : 13 400 mg/l
- LC<sub>50</sub>/96h/Lepomis macrochirus : 10650 mg/l
- LC<sub>50</sub>/96h/Daphnia : 649 mg/l
- LC<sub>50</sub>/96h/Nitocra spinipes : 1600 mg/l
- LC<sub>50</sub>/120h/Nitzschia linearis : 3130 mg/l

## **13. DISPOSAL CONSIDERATIONS**

### **Contaminated Packaging**

In accordance with local and national regulations.

### **Waste from residues / unused products**

In accordance with local and national regulations.

## **14. TRANSPORT INFORMATION**

UN – No : Not regulated

Packing Group : Not regulated

ADR / RID : Not regulated

IMO : Not regulated

ICAO : Not regulated

## **MATERIAL SAFETY DATA SHEET**

**PRODUCT : Stopak Silica Gel Rev 1**

**DATE OF LAST ALTERATION : 2005/12/08 Page 5 of 5**

The information given has been obtained from numerous measures and is for guidance only. No guarantee is given or implied. For more information please contact Glantreo Ltd, ERI Building, Lee Road, Cork City, IRELAND +353 21 4901965

The information given has been obtained from numerous measures and is for guidance only.

No guarantee is given or implied.

#### **15. REGULATORY INFORMATION**

The product is classified and labeled in accordance with EU directives:

- Xi : Irritant
- Content : Silicon dioxide
- R –phrase(s) : R36 – Irritant to eyes
- S –phrase(s) : S22 – Do not breathe dust.  
S24 – Avoid contact with skin.

#### **16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, since the conditions of the operations mentioned are beyond our control. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.