



Health	1
Fire	0
Reactivity	0
Personal Protection	E

## Material Safety Data Sheet

### SILICA GEL CHROMATOGRAPHY GRADES

Section 1: Identification of the substance/preparation & company/undertaking	
<u>Substance &amp; Preparation</u>	<u>Company/undertaking identification</u>
<b>Product name:</b> Silica Gel	<b>SWAMBE CHEMICALS</b>
<b>Appearance and odorless:</b> White powder	304-307, Prayosha Complex, Chhani Jakat Naka,
<b>Identification:</b> Manufacturer & Supplier	Vadodara-390024, Gujarat, India.
<b>Synonyms:</b> Adsorbent, Desiccant	<b>Tel:</b> +91-98-240-50661
<b>Chemical Name:</b> Silicon DiOxide	<b>Fax:</b> +91-265-2761142
<b>Chemical Formula:</b> SiO <sub>2</sub>	<b>Emergency Telephone Number-</b> 1800-233-2677
<b>Product Use:</b> Chromatography Adsorbent	<b>E-mail:</b> <a href="mailto:sales@swambe.com">sales@swambe.com</a>
<b>CAS No:</b> 63231-67-4	<b>Order Online:</b> <a href="http://www.sorbeadindia.com">www.sorbeadindia.com</a>

Section 2: Composition and Information on Ingredients			
	% by weight	CAS No.	Occupational Exposure Limits
SiO <sub>2</sub>	90-99	63231-674	ACGIH TLVS
*Na <sub>2</sub> O	0.01-0.2	1313-59-4	Total fraction - 10mg/m <sup>3</sup> (TWA)
*Al <sub>2</sub> O <sub>3</sub>	0.01-0.2	1344-28-1	Respirable fraction - 5mg/m <sup>3</sup> (TWA)
<b>Loss on Ignition (water)</b>	3-10		
<b>*Expressed as oxide equipment</b>			

Section 3: Hazards Identification
<p><b>Color:</b> White to Off White</p> <p><b>Form:</b> Powder</p> <p><b>Odor:</b> None</p> <p><b>Flash Point, °C:</b> Not Applicable</p> <p><b><u>Carcinogenicity:</u></b></p> <p><b>Chronic Health:</b> Silica Gel does not produce silicosis hazards</p> <p><b>Aggravated Medical Conditions:</b> No information found.</p>

Section 4: First Aid Measures
<p><b>Inhalation:</b> Move person to fresh air. Seek medical attention if necessary. May cause irritation to the respiratory tract. Symptoms may include dryness, sore throat and wheezing.</p> <p><b>Ingestion:</b> If large quantities are ingested, seek medical advice. No adverse health effects are expected.</p>

**Skin Contact:** Flush skin with water. If irritation persists seek medical attention. May cause dryness and mechanical irritation.

**Eye Contact:** Flush Eyes with water for 15 minutes. If irritation persists seek medical attention. May cause dryness and mechanical irritation.

### Section 5: Fire Fighting Measures

**Flash Point, ° C:** Not Applicable  
**Auto ignition Temperature ° C:** Not Determined  
**Lower Explosive Limit, %:** Not Determined  
**Upper Explosive Limit, %:** Not Determined  
**Extinguishing Media:** Use media appropriate for surrounding fire.  
**Fire Fighting Procedures:** Positive pressure, self-contained breathing apparatus. Protective clothing.  
**Fire and Explosion Hazards:** Not a fire or explosion hazard.

### Section 6: Accidental Release Measures

**Spill Procedures:** Contain spillage. Scoop or vacuum into a container for reclamation or disposal. Avoid dusting. Vacuuming or wet sweeping may be used to avoid dust.

### Section 7: Handling and storage

Keep container closed.  
Store in cool, dry location.  
Avoid Generating or breathing dust.  
Use only with adequate ventilation.

### Section 8: Exposure controls/personal protection

<i>Ingredient</i>	<i>Weight % in Product</i>	<i>OSHA PEL:</i>	<i>ACGIH TLV:</i>
Silica Gel	99-100%	80 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

**Personal Protective Equipment:** Safety glasses. Wear suitable gloves

**Respiratory Protection protect from dust:** Use a NIOSH/MSHA approved respirator as necessary to

**Ventilation:** General ventilation. Local exhaust ventilation is recommended

### Section 9: Physical and chemical properties

**Form** : Powder  
**Color** : White to Off White  
**Odor** : None  
**Specific gravity** : 2.1  
**Solubility (water):** : Negligible  
**pH:** : 4-8 (5% slurry)  
**Melting Point:** : > 1700 °C  
**Boiling Point:** : 2230 °C

### Section 10: Stability and Reactivity Data

**Stability Data:** Stable up to 830 °C, above this temperature amorphous silica will transform into crystalline silica.

**Conditions / Hazards need to avoid:** Handling near flammable gases or vapors active material adsorb gases & vapors.

Risk of static discharges

**Hazardous:** Fresh material: Non anticipated

**Decomposition Products:** Used material: In case of fire the adsorbed gases and vapors can be set free.

**Hazardous decomposition products:** None. If used according to specifications.

**Hazardous Polymerization:** None. Non-corrosive

### Section 11: Toxicological information

No toxicological data is available

### Section 12: Ecological information

No Data available

### Section 13: Disposal information

**US EPA Waste Number:** Not regulated

**Disposal of Waste Method:** Federal, state and local disposal laws will determine the proper waste disposal procedure.

### Section 14: Transport information

**International Transport Regulations:**

UN/PIN Number: Not Regulated

US Transportation Regulations:

DOT Classification: Not Regulated

Canadian Transportation of Dangerous Goods (TDG):

TDG Classification: Not Regulated.

### Section 15: Regulatory information

This product or its' ingredients are listed on or compliant with the TSCA Inventory

### Section 16: Other information

**NFPA Classification**

Health: 1

Flammability: 0

Instability: 0

**Special Hazards:** This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.