

MATERIAL SAFETY DATA SHEET (MSDS)

Product Name: Silica Gel

Chemical Name: Silicon Dioxide (SiO₂)

CAS Number: 112926-00-8 (Amorphous silica), 7631-86-9 (Silicon dioxide)

HS Code: 3824.99

Molecular Formula: SiO₂

1. IDENTIFICATION OF THE SUBSTANCE & COMPANY

- **Product Name:** Silica Gel
 - **Intended Use:** Desiccant, moisture absorber, industrial drying agent
 - **Manufacturer/Supplier:** SSF Designs
 - **Address:** New Delhi
 - **Emergency Contact:** +91 87002 92865
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2. HAZARD IDENTIFICATION

- **Classification:** Non-hazardous material
 - **Health Hazards:** May cause mild irritation if inhaled in large amounts.
 - **Environmental Hazards:** Not classified as environmentally hazardous.
 - **GHS Label Elements:** No significant hazards under normal conditions.
 - **Precautionary Statements:** Avoid inhalation and direct eye contact.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

- **Chemical Name:** Silicon Dioxide
 - **Formula:** SiO₂
 - **Content:** >98%
 - **Impurities:** <2% (including moisture)
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4. FIRST AID MEASURES

- **Inhalation:** Remove to fresh air, seek medical attention if symptoms persist.

- **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse with plenty of water for at least 15 minutes.
 - **Ingestion:** Non-toxic, but seek medical attention if discomfort occurs.
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5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Water, foam, dry powder, CO₂.
 - **Special Hazards:** Not flammable or combustible.
 - **Protective Equipment:** Use self-contained breathing apparatus if needed.
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6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Avoid generating dust.
 - **Environmental Precautions:** No known environmental hazards.
 - **Cleaning Methods:** Sweep up and dispose of according to local regulations.
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7. HANDLING & STORAGE

- **Handling:** Avoid dust formation, use in a well-ventilated area.
 - **Storage:** Store in a dry, cool place in an airtight container.
 - **Shelf Life:** 24-36 months if stored properly.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Occupational Exposure Limits:** None established for amorphous silica.
 - **Respiratory Protection:** Use dust mask if necessary.
 - **Hand Protection:** Wear protective gloves when handling large quantities.
 - **Eye Protection:** Use safety glasses if handling in bulk.
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9. PHYSICAL & CHEMICAL PROPERTIES

- **Appearance:** White or translucent beads/granules

- **Odor:** Odorless
 - **pH:** 4-8
 - **Solubility:** Insoluble in water
 - **Boiling Point:** >1600°C
 - **Melting Point:** >1600°C
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10. STABILITY & REACTIVITY

- **Stability:** Stable under normal conditions.
 - **Reactivity:** Non-reactive with most substances.
 - **Hazardous Decomposition Products:** None.
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11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Non-toxic
 - **Skin/Eye Irritation:** May cause mild irritation
 - **Carcinogenicity:** Not classified as carcinogenic
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12. ECOLOGICAL INFORMATION

- **Environmental Impact:** No significant impact expected.
 - **Biodegradability:** Inert and stable in the environment.
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13. DISPOSAL CONSIDERATIONS

- **Waste Disposal:** Dispose of according to local regulations.
 - **Packaging Disposal:** Recycle or dispose of as per local laws.
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14. TRANSPORT INFORMATION

- **UN Number:** Not classified as hazardous for transport.
- **Transport Hazard Class:** Non-hazardous

- **Packing Group: Not applicable**
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15. REGULATORY INFORMATION

- **RoHS Compliant**
 - **REACH Registered**
 - **FDA Approved for Indirect Food Contact**
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16. OTHER INFORMATION

Disclaimer: The information provided is based on current knowledge and is intended for informational purposes only. The end-user is responsible for ensuring proper usage and compliance with local regulations.

For further details, contact:

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