



Material Safety Data Sheet

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24 Hour Emergency Assistance

SILICA GEL

MSDS Number : M05180209 — Effective Date : 03/19/2013

1. Product Identification

Product Name: Silica Gel desiccant

Chemical Name: Synthetic Amorphous Silica

Synonyms : Silica, amorphous, precipitated and gel

CAS No. : 63231-67-4

Chemical Formula : $\text{SiO}_2 \cdot x \text{H}_2\text{O}$

2. Health Hazard Identification

Potential Health Effects

Inhalation : May cause dryness and irritation to mucous membranes, nose, and Throat. Symptoms may include coughing, sore throat, and wheezing.

Ingestion : No adverse effects expected.

Skin Contact : May cause irritation with dryness and abrasion.

Eye Contact : May cause irritation, redness and pain.

Chronic Exposure : Repeated exposure may cause symptoms similar to those listed for acute effects.

3. Composition/ Information on Ingredients

Contents	Silica Gel		
Composition	SiO ₂	Na ₂ SO ₄	Fe
	99.5(min)	0.5%(max)	Trace

4. First Aid Measures

Eye Contact : Flush eyes immediately with large amounts of water. If irritation persists get medical attention.

Skin Contact: No special measures required. Get medical attention if irritation develops or persists.

Ingestion : Give several glasses of water to drink to dilute. Material will pass



through the body normally. If large amounts were swallowed, get medical advice.

Inhalation : Remove to fresh air. Get medical attention for any breathing difficulty.

5. Fire Fighting Measures

Flammable Properties: This material will not burn.

6. Accidental Release Measures

Personal Precaution: Wear a dust mask if dust is generated above exposure limits.

Environmental Precautions: No special environment precautions required.

Methods for cleaning up: Collect dust or particulates using a vacuum cleaner. Reduce airborne dust and prevent scattering by moistening with water.

7. Handling and Storage

Handling : Use only in a well ventilated area. Minimize dust generation and accumulation. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Keep in a cool, dry area.

8. Exposure Controls/Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the recommended exposure limits.

Exposure Limits

TWA: 6 mg/m³ [Canada]

TWA: 10 mg/m³ from ACGIH (TLV) [United States]

Personal Protective Equipment

Eye/Face Protection: Wear dust goggles. Eye wash fountain is recommended.

Respiratory protection: Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

Skin and Body Protection: No special protective equipment required.

9. Physical and Chemical Properties

Appearance : White/Clear, Dry Granules, Beads, Powder

Order : Odorless

Specific Gravity : 2.1

Boiling Point : not available

Melting Point(°C) : > 1000

Flash Point: Not Applicable

Solubility In Water : insoluble in cold water.

pH : 4~8



10. Stability and Reactivity

Stability : Hygroscopic

Instability Temperature : High temperatures in excess of 600°C

Conditions of Instability : Incompatible materials, moisture, excess dust generation.

Special Remarks on Reactivity :

Hygroscopic.

Incompatible with hydrogen fluoride.

Special Remarks on Corrosivity : Not available.

Polymerization: Will not occur.

11. Toxicological Information

Toxicity to animal : LD50:Not available.

LC50: Not available.

Acute Potential Health Effects:

Skin: May cause irritation with dryness of the skin in cases of severe exposure.

Eyes No adverse effects expected, but dust may cause mechanical irritation.

Ingestion: May be harmful if swallowed in large amounts. However, no adverse effects are expected for numeral industrial handling.

12. Ecological Information

Ecotoxicity: This products is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Environmental Effects: Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected.

13. Disposal Considerations

Dispose in accordance with all applicable regulations. Material should be recycled if possible.

14. Transport Information

DOT Classification: Not a DOT controlled material (United States).

15. Regulatory Information

EC Classification: This product is not classified as dangerous.

EINECS: This product is no the European Inventory of Existing



Commercial Chemical Substances.

16. Other Information

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