

## Material Safety Data Sheet SILICA GEL

### 1. Product Identification

**MSDS Name:** Silica gel

**MSDS Date:** April 1, 2016

**Chemical Family:** Silica gel

**Chemical Names & Synonyms:** white Silica gel, desiccant

**Application:** Drying agent, desiccant. Silica gel is used to absorb water from a gaseous environment;

### Section 2: Composition, Information on Ingredient

Chemical Name: silica gel Molecular formula:  $\text{SiO}_2 \cdot x\text{H}_2\text{O}$

CAS No.: 7631-86-9 EINECS: 231-545-4

Carcinogen Paragraph: NTP: No OSHA: No

Hazardous Paragraph: This product is in granular form and packed in bags for use as a desiccant. Therefore, no exposure to silica gel dust is anticipated under normal use of this product.

Comments: Prolonged or repeated exposure may cause lung injury.

### Section 3: Health Hazards Data

Potential Health Effects: the resulting dust may cause health hazards when inhaled, ingested or in contact with the eyes and skin. Prolonged inhalation may cause irritation to the upper respiratory tract and/or lung damage. If large amounts are ingested, intestinal disorders may occur. Contact with eye tissue may result in irritation.

### Section 4: First Aid Measures

**Eyes:** Wash eyes immediately and carefully for 15 minutes with running water, lifting upper and lower eyelids occasionally. Get prompt medical attention.

**Skin:** To avoid repeated or prolonged contact with this material, use good hygienic practices. Wash affected area with soap and water. Get medical attention if irritation or inflammation develops.

**Inhalation:** Remove to fresh air immediately. Get prompt medical attention.

**Ingestion:** If large amounts have been ingested, give emetics to cause vomiting. Stomach siphon may be applied as well. Milk and fatty acids should be avoided. Get medical attention immediately.

### Section 5: Physical and Chemical Properties

Physical State/ Appearance: Beads or Granules

Color: white

Odor: No odor

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pH value: 3.5-8 (in suspension at 10% in water)  
Melting Point: Not applicable  
Boiling point: 2230 C  
Inflammability: No  
Flash point: Not combustible  
Explosion limits: Not determined  
Solubility In Water: Insoluble  
Buck density: 720g/L(about)

## Section 6: Fire Fighting Measures

Fire and Explosion Hazard: Negligible fire and explosion hazard when exposed to heat or flame by reaction with incompatible substances.  
Flash Point: Nonflammable  
Extinguishing Media: Dry chemical, water spray or foam, For larger fires, use water spray fog or form.  
Firefighting Procedures: None

## Section 7: Accidental Release Measures

Spill or Leak Cleanup Measures: Notify safety personnel of spill or leaks. Clean-up personnel need protection against inhalation of dusts or fumes. Eye protection is required. Vacuuming and/or wet methods of cleanup are preferred. Place in appropriate containers for disposal, keeping airborne particulates at a minimum.

## Section 8: Handling and Storage

Storage: Store in a dry, well-ventilated place, below 45 deg C, away from heat source. Keep in tightly closed container. Protect container from physical damage. Always reseal container and protective moisture barrier liner after use.

## Section 9: Exposure Controls

Ventilation System: Provide general and/or local exhaust ventilation to keep exposures below the TLV. Ventilation used must be designed to prevent spots of dust accumulation or recycling of dusts.

## Section 10: Personal Protection

Eyes/Face Protection: Chemical splash goggles designed in compliance with OSHA regulations are recommended.  
Protective Clothing/Body Protection: Wear protective clothing, including long sleeves and gloves, to prevent repeated or prolonged skin contact.  
Respiratory Protection: Provide a NIOSH/MSHA jointly approved respirator in the absence of proper environmental control. Contact your safety equipment supplier for proper mask type.

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## Section 11: Stability and Reactivity

Reactivity: Is stable under normal temperatures and pressures in sealed containers. Hazardous polymerization will not occur.

## Section 12: Ecological Information

Ecotoxicity: Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment.

## SECTION 13: Disposal

Product Disposal Product can be reactivated in an oven for re-use. This material is not classified as hazardous waste under EEC Directive 91/689/EEC. Dispose of in accordance with all applicable local and national regulations. This material is not classified as special waste under UK Special Waste Regulations 1996 and can be disposed of by landfill at an approved site.

## SECTION 14: Transport Information

UN Class: Not classified as dangerous goods under the United Nations Transport Recommendations.

## SECTION 15: Information on Regulation

EC Classification This product is not classified as dangerous.  
S phrases Handle in accordance with good industrial hygiene and safety practices.  
Avoid inhalation of dust.  
MSDS According to EEC 91/155