Material Safety Data Sheet  
Silica Gel Dessicant  
  
MSDS# 20665  

Section 1 - Chemical Product and Company Identification  

MSDS Name: Silica Gel Dessicant  
Synonyms: Silica Gel; Silica Gel Dessicant (3 mesh-646 mesh)  
Company Identification:  
Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410  
For information in the US, call:  
201-796-7100  
Emergency Number US:  
201-796-7100  
CHEMTREC Phone Number, US:  
800-424-9300  

Section 2 - Composition, Information on Ingredients  

Risk Phrases:  
CAS#: 63231-67-4  
Chemical Name: Silica gel  
%: 100  
EINECS#: unlisted  
Hazard Symbols:  

Text for R-phrases: see Section 16  
Hazard Symbols: None listed  
Risk Phrases: None listed  

Section 3 - Hazards Identification  

EMERGENCY OVERVIEW  
Caution! Causes respiratory tract irritation. May cause eye and skin irritation. Target Organs: Lungs.  

Potential Health Effects  
Eye: Dust may cause mechanical irritation.  
Skin: Dust may cause mechanical irritation.  
Ingestion: May cause irritation of the digestive tract.  
Inhalation: Dust is irritating to the respiratory tract.  
Chronic: Prolonged or repeated skin contact may cause irritation.  

Section 4 - First Aid Measures  

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.  
Ingestion: Treat symptomatically and supportively. Get medical aid.  
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.  
Notes to Physician:
Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

- Autoignition Temperature: Not applicable.
- Flash Point: Not applicable.

Explosion Limits:
- Lower: Not available
- Upper: Not available

NFPA Rating: health: 1; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Use only with adequate ventilation. Avoid breathing dust.

Storage: Store in a tightly closed container. Store in a dry area.

Section 8 - Exposure Controls, Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
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<tbody>
<tr>
<td>Silica gel</td>
<td>none listed</td>
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<tr>
<td>Silica gel, pptd.,</td>
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OSHA Vacated PELs: Silica gel: None listed Silica gel, pptd., cryst.-free, hydrated form: 6 mg/m³ TWA

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid
- Color: colorless to white
- Odor: odorless
- pH: 2.3-7.4 (aqu. susp)

Vapor Pressure: Negligible.

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not applicable.
Boiling Point: 2230 deg C (4,046.00°F)
Freezing/Melting Point: 1710 deg C (3,110.00°F)
Decomposition Temperature: Not available
Solubility in water: Insoluble
Specific Gravity/Density: 2.1
Molecular Formula: SiO2
Molecular Weight: 58.08

Section 10 - Stability and Reactivity

Chemical Stability: Stable.
Conditions to Avoid: Moisture.
Incompatibilities with Other Materials: Not available
Hazardous Decomposition Products: No data available.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 63231-67-4: VV7340000
CAS# 112926-00-8: VV7315000
LD50/LC50: RTECS: Not available. RTECS: Not available.
Carcinogenicity: Silica gel - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Silica gel, pptd., cryst.-free, hydrated form - IARC: Group 3 (not classifiable)
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases:
Safety Phrases:

WGK (Water Danger/Protection)
CAS# 63231-67-4: 0
CAS# 112926-00-8: 0

Canada
CAS# 63231-67-4 is listed on Canada's DSL List
CAS# 112926-00-8 is listed on Canada's DSL List
Canadian WHMIS Classifications: Not available
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
CAS# 63231-67-4 is not listed on Canada's Ingredient Disclosure List.
CAS# 112926-00-8 is not listed on Canada's Ingredient Disclosure List.

US Federal
TSCA

CAS# 63231-67-4 is listed on the TSCA Inventory.
CAS# 112926-00-8 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Other Information
MSDS Creation Date: 9/02/1997
Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

REVIEWED
DATE: July 17/2012

[Signature]