

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product and Company Identification

MSDS Name: Silica Gel Dessiccant
Catalog Numbers: S80160, FAIRXXS679, FLS156-10LC, NC9323205, NC9517555, NC9599429, S157-212, S679-212, S679-500, S67925, S684-10, S684-212, S692-200LB, S692-212, S701-212, S732-1, S732-25, S733-1, S73325, S734-1, S735-1, S736-1, S743-1, S744-1, S745-1, S746-1, S80160-1, XXS67925KG
Synonyms: Silica Gel; Silica Gel Dessiccant (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

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

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: Not applicable.

Temperature:

Flash Point: Not applicable.

Explosion Limits: Not available

Lower:

Explosion Limits: Not available

Upper:

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

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

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Silica gel listed	none listed	none listed	none
Silica gel, pptd., listed	10 mg/m3	none listed	none
cryst.-free, hydrated form			

OSHA Vacated PELs: Silica gel: None listed Silica gel, pptd., cryst.-free, hydrated form: 6 mg/m3 TWA

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.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a 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: 4046 deg F (2,230.00°C)
Freezing/Melting Point: 3110 deg F (1,710.00°C)
Decomposition Temperature: Not available
Solubility in water: Insoluble
Specific Gravity/Density: 2.1
Molecular Formula: SiO₂
Molecular Weight: 60.0843

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)

Epidemiology: Not available
Teratogenicity: Not available
Reproductive: Not available
Neurotoxicity: Not available
Mutagenicity: Not available
Other: Not available

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

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

US Federal

TSCA

CAS# 63231-67-4 is listed on the TSCA Inventory.

CAS# 112926-00-8 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)).

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules Section 12b

None of the chemicals in this product are under a Chemical Test Rule.

TSCA Significant New Use Rule

None of the chemicals are listed under TSCA Section 12b.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have a SNUR under TSCA.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this material have an RQ.

Section 313

None of the chemicals in this product have a TPQ.

Clean Air Act:

No chemicals are reportable under Section 313.

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

STATE

Silica gel can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts. Silica gel, pptd., cryst.-free can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.

California Prop 65

California No Significant Risk Level:

None of the chemicals in this product are listed.

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.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #5 Date 10/03/2005

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.