



# Material Safety Data Sheet

## Section 1. Product and Company Identification

<b>Product Name</b>	Silica Gel	<b>Product Code</b>	10185
<b>Manufacturer</b>	EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.	<b>Effective Date</b>	4/25/2005
<b>For More Information Call</b>	856-423-6300 Technical Service Monday-Friday: 8:00 AM - 5:00 PM	<b>In Case of Emergency Call</b>	800-424-9300 CHEMTREC (USA) 613-996-6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week
<b>Synonym</b>	Amorphous silica gel		
<b>Material Uses</b>	Analytical reagent.		
<b>Chemical Family</b>	Inorganic silicate.		

## Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Silica Gel	63231-67-4	100

## Section 3. Hazards Identification

<b>Physical State and Appearance</b>	Solid.
<b>Emergency Overview</b>	<b>CAUTION!</b> MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. PROLONGED OR REPEATED INHALATION MAY CAUSE DAMAGE TO RESPIRATORY SYSTEM.
<b>Routes of Entry</b>	Inhalation, Ingestion.
<b>Potential Acute Health Effects</b>	<b>Eyes</b> May be hazardous in case of eye contact (irritant). <b>Skin</b> May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. <b>Inhalation</b> May be hazardous in case of inhalation (lung irritant). <b>Ingestion</b> No known acute effects of this product resulting from ingestion.
<b>Potential Chronic Health Effects</b>	<b>Carcinogenic Effects</b> This material is not known to cause cancer in animals or humans.
	<b>Additional information See Toxicological Information (section 11)</b>
<b>Medical Conditions Aggravated by Overexposure:</b>	Repeated or prolonged exposure is not known to aggravate medical condition.

## Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 5. Fire Fighting Measures

**Flammability of the Product** May be combustible at high temperature.

Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	Some metallic oxides.
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	<b>Risks of explosion of the product in presence of static discharge:</b> No.
Fire Fighting Media and Instructions	<b>Risks of explosion of the product in presence of mechanical impact:</b> No. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

## Section 6. Accidental Release Measures

Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill and Leak	Use a shovel to put the material into a convenient waste disposal container.
Spill Kit Information	No specific spill kit required for this product.

## Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Do not ingest.
Storage	Keep container in a cool, well-ventilated area.

## Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
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### Personal Protection

Eyes	Splash goggles.
Body	Lab coat.
Respiratory	Dust respirator. Be sure to use an approved/certified respirator or equivalent.
Hands	Gloves.
Feet	Not applicable.

### Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
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Product Name	<b>Exposure Limits</b>
Silica Gel	Not available.

## Section 9. Physical and Chemical Properties

Odor	Odorless.
Color	White or Blue.
Physical State and Appearance	Solid.
Molecular Weight	60.09 g/mole
Molecular Formula	SiO <sub>2</sub>
pH	Not applicable.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	Not available.
Specific Gravity	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
LogKow	Not available.
Solubility	Insoluble in water.

## Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with Various Substances</b>	Not available.
<b>Rem/Incompatibility</b>	Not available.
<b>Hazardous Decomposition Products</b>	Not available.
<b>Hazardous Polymerization</b>	Will not occur.

## Section 11. Toxicological Information

<b>RTECS Number:</b>	Silica Gel	Not available.
<b>Toxicity</b>	LD50: Not available. LC50: Not available.	
<b>Chronic Effects on Humans</b>	Not available.	
<b>Acute Effects on Humans</b>	May be hazardous in case of eye contact (irritant). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May be hazardous in case of inhalation (lung irritant).	
<b>Synergetic Products (Toxicologically)</b>	Not available.	
<b>Irritancy</b>	Draize Test: Not available.	
<b>Sensitization</b>	Not available.	
<b>Carcinogenic Effects</b>	This material is not known to cause cancer in animals or humans.	
<b>Toxicity to Reproductive System</b>	Not available.	
<b>Teratogenic Effects</b>	Not available.	
<b>Mutagenic Effects</b>	Not available.	

## Section 12. Ecological Information

<b>Ecotoxicity</b>	Not available.
<b>BOD5 and COD</b>	Not available.
<b>Toxicity of the Products of Biodegradation</b>	The product itself and its products of degradation are not toxic.

## Section 13. Disposal Considerations

<b>EPA Waste Number</b>	Not available.
<b>Treatment</b>	Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

## Section 14. Transport Information

<b>DOT Classification</b>	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.
<b>TDG Classification</b>	Not available.
<b>IMO/IMDG Classification</b>	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.
<b>ICAO/IATA Classification</b>	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.

## Section 15. Regulatory Information

<b>U.S. Federal Regulations</b>	TSCA 8(b) inventory: Silica Gel SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
<b>WHMIS (Canada)</b>	Not controlled under WHMIS (Canada).

CEPA DSL: Silica Gel

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

#### International Regulations

EINECS

Not available.

DSCL (EEC)

R36/37/38- Irritating to eyes, respiratory system and skin.

International Lists

China: Silica Gel

Korea (TCCL): Silica Gel

Philippines (RA6969): Silica Gel

China: Silica Gel

#### State Regulations

No products were found.

California prop. 65: No products were found.

## Section 16. Other Information

### National Fire Protection Association (U.S.A.)

	0	Fire Hazard
Health	0 0	Reactivity
		Specific Hazard

Other Special  
Considerations

Indicating grades of silica gel contain a small amount of indicating compound which does not affect the hazard or protection requirement data.

Changed Since Last  
Revision

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Notice to Reader

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