

# Material Safety Data Sheet

Desiccant: SG-10, Silica Gel

Revision Date: 05/09/11 Supersedes: 10/06/08

PRODUCT NAME: SG-10 Silica Gel

## COMPANY IDENTIFICATION

Suppliers Name: SPX Flow Technology

Emergency  
Telephone No. 352-237-1220

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Ocala, Florida 34474-5799 USA

For Product  
Information 352-237-1220

## 1. CHEMICAL PRODUCT AND IDENTIFICATION

Chemical Name: Aluminatesilicate

Product Name: Silica Gel

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

	<u>CAS NO.</u>	<u>Weight %</u>
Aluminatesilicate	1327-36-2	100

## 3. HAZARDS IDENTIFICATION

### Emergency Overview:

**CAUTION:** Contact with the eyes or skin may cause mechanical irritation.

Avoid contact with the skin, eyes and clothing.

Wear a NIOSH-certified (or equivalent) particulate respirator.

Wear safety glasses with side-shields.

Wear chemical resistant protective gloves.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

### Potential Health Effects:

**Primary Routes of Exposure:** Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Acute Toxicity:** Virtually nontoxic after a single ingestion.

**Irritation:** Not irritating to eyes and skin.

**Sensitization:** Skin sensitizing effects were not observed in animal studies.

## 4. FIRST AID MEASURES

**General Advice:** Remove contaminated clothing.

**Inhalation:** If breathing difficulties develop, aid in breathing, if necessary, and get immediate medical attention.

**Skin Contact:** If skin contact occurs, flush with plenty of water. Get medical attention if irritation occurs.

**Eye Contact:** If in eyes, wash affected areas for at least 15 minutes under running water with eyelids held open.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Ingestion:** Procedures normally not needed. If large quantities are ingested, seek medical advice.

**Note to Physician:** Treat according to symptoms (decontamination, vital functions), no specific antidote.

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## 5. FIRE-FIGHTING MEASURES

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<b>Flash Point:</b>	Not applicable.
<b>Self-ignition Temperature:</b>	Not self-igniting.
<b>Suitable Extinguishing Media:</b>	Use extinguishing media appropriate for surrounding fire (e.g., carbon dioxide, dry powder, foam, water).
<b>Fire Fighting Hazards:</b>	Toxic vapors. No other particular hazards known.
<b>Fire Fighting Procedures:</b>	Positive pressure, self-contained breathing apparatus. Wear full protective clothing.
<b>Unusual Fire and Explosion Hazards:</b>	Not a fire or explosion hazard. When handling near flammable gases or vapors, take precautionary measures against static discharges.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** Use breathing apparatus if exposed to vapors, dust, or aerosols. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. See Section 8 for information regarding personal protective methods.

**Environmental Precautions:** Do not discharge into drains, surface waters, or groundwater.

**Spill Procedure:** Contain spillage. Sweep up or vacuum into a container for reclamation or disposal. Avoid dusting.

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## 7. HANDLING AND STORAGE

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**Handling:** Keep container tightly closed. Avoid dust formation. Avoid inhalation of dusts, mists, and vapors. Avoid contact with the skin, eyes, and clothing. Use with adequate ventilation.

**Storage:** Keep container tightly closed and dry. Store in cool dry place. Contents are stable at room temperature.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Ventilation:** Provide local exhaust ventilation as necessary to control dust, mist, vapor or fumes.

### Personal Protective Equipment

**Respiratory Protection:** Use a NIOSH/MSHA approved respirator as necessary to protect from dust.

**Hand Protection:** Chemical resistant protective gloves.

**Eye Protection:** Safety glasses with side shields.

**Body Protection:** Body protection must be chosen based on level of activity and exposure.

**General Safety and Hygiene Measures:** Avoid contact with the skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or use tobacco while working.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Form:	Beads
Odor:	Odorless
Color:	Light Brown to Brown
pH Value:	4
Freezing Point :	> 1,000 °C
Boiling Point :	2980 °C
Vapor Pressure:	Not Applicable
Bulk Density:	400 – 900 kg/m3
Solubility in Water:	Not soluble

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## 10. STABILITY AND REACTIVITY

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Conditions to Avoid:	Avoid dust formation. Avoid deposition of dust.
Substances to Avoid:	Water.
Hazardous Reactions:	The product is chemically stable. No hazardous reactions known.
Hazardous Decomposition Products:	No hazardous decomposition products known.
Corrosion to Metals:	No corrosive effect on metal.
Oxidizing Properties:	Non fire-propagating.

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity:

Oral:	LD50/rat: > 5,000 mg/kg (OECD Guideline 401) The product has not been tested. The statement has been derived from the properties of the individual components.
Skin Irritation:	rabbit: non-irritant (OECD Guideline 404) The product has not been tested. The statement has been derived from the properties of the individual components.
Eye Irritation:	rabbit: non-irritant (OECD Guideline 405) The product has not been tested. The statement has been derived from the properties of the individual components.
Sensitization:	Guinea pig maximization test/guinea pig: Non-sensitizing The product has not been tested. The statement has been derived from the properties of the individual components.  Buehler test/guinea pig: Non-sensitizing The product has not been tested. The statement has been derived from the properties of the individual components.

### Chronic Toxicity:

Genetic Toxicity:	The substance was not mutagenic in bacteria.
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## 12. ECOLOGICAL INFORMATION

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### Information On Product:

Environmental Fate: No information available  
Ecotoxicological Information: No information available.

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## 13. DISPOSAL CONSIDERATION

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**Disposal of Waste Method:** Local disposal laws and regulations will determine the proper waste disposal / recycling / reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

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## 14. TRANSPORT INFORMATION

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### Land Transport:

**USDOT Classification:** Not classified as a dangerous good under transport regulations.

### Sea Transport:

**IMDG Classification:** Not classified as a dangerous good under transport regulations.

### Air Transport:

**IATA/ICAO Class:** Not classified as a dangerous good under transport regulations.

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## 15. REGULATORY INFORMATION

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### Federal Regulations:

#### **Registration Status:**

AICS, AU Released / Listed

**OSHA Hazard Category:** Not Hazardous

**SARA 311/312 Hazard Categories:** Not Hazardous

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## 16. OTHER INFORMATION

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Supersedes: 10/06/2008

Product use: Desiccant, Adsorbent

### NFPA Classification:

Health: 0

Flammability: 0

Instability: 0

Special Hazards:

### HMIS Classification:

Health: 1

Flammability: 0

Reactivity: 0

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# Material Safety Data Sheet

**ATTENTION: Plant Manager/Safety Director:**

This MSDS supersedes all prior data sheets received for this product. We urge you to study it carefully. This is provided with each container as our way of communicating Health, Safety, and Environmental Protection Information to our customers.

This information is provided to ensure safe handling and storage of our products in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200. The information contained in this MSDS must be passed on to all employees in your firm that handle and/or become involved in the implementation or control of operations involving use of the product. We strongly urge you to forward this MSDS to all parties that have a need to know the information contained herein!

## LEGEND:

ACGIH	American Conference of Government Industrial Hygienists	atm	atmosphere
AICS	Australian Inventory of Chemical Substances	cm	centimeter
CAS	Chemical Abstract Services	g, gm	gram
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	in	inch
CFR	Code of Federal Regulations	kg	kilogram
DOT	Department of Transportation	lb	pound
DSL	Domestic Substances List (Canada)	m	meter
ECL	Existing Chemicals List (Korea)	mg	milligram
ECOIN	European Core Inventory	ml, ML	milliliter
EINECS	European Inventory of Existing Chemical Substances	mm	millimeter
EPA	Environmental Protection Agency	n.o.s.	not otherwise specified
IARC	International Agency for Research on Cancer	ppb	parts per billion
IECSC	Inventory of Existing Substances in China	ppm	parts per million
LC <sub>50</sub>	Lethal Concentration (50% kill)	psia	pounds per square inch
LC <sub>LO</sub>	Lowest Published Lethal Concentration	μ, u	micron
LD <sub>50</sub>	Lethal Dose (50% kill)	μg	microgram
LD <sub>LO</sub>	Lowest Published Lethal Dose		
NFPA	National Fire Protection Agency		
NIOSH	National Institute of Occupational Safety and Health		
NTP	National Toxicology Program		
OSHA	Occupational Safety and Health Administration		
PEL	Permissible Exposure Limit		
PICCS	Philippine Inventory of Chemicals and Chemical Substances		
PIN	Product Identification Number		
RCRA	Resource Conservation and Recovery Act		
SARA	Superfund Amendments and Reauthorization Act		
STEL	Short Term Exposure Limit		
TCLP	Toxic Chemicals Leachate Program		
TDG	Transportation of Dangerous Goods		
TLV	Threshold Limit Value		
TSCA	Toxic Substances Control Act		
TWA	Time Weighted Average		

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