



# Safety Data Sheet Silica Gel

# TOPRING

## 1. Identification

<b>Product identifier</b>	Silica Gel		
<b>Product code</b>	49.998, 49.999		
<b>Other means of identification</b>	Packaged Desiccant - BLUE Indicating Silica Gel.		
<b>Recommended use of the chemical and restrictions on use</b>	Silica gel desiccant used to manage moisture. Not recommended for any other use not detailed on product data sheet or label.		
<b>Manufacturer</b>	Flow Dry Technology, Inc. 379 Albert Road PO Box 190 Brookville, OH 45309 USA Tel. 1-937-833-2161 1-800-533-0077 Fax 1-937-833-3208 <a href="http://www.flowdry.com">www.flowdry.com</a> <a href="mailto:service@flowdry.com">service@flowdry.com</a>	<b>Distributor</b>	TOPRING LTD 1020, boulevard Industriel Granby, Québec Canada J2J 1A4  Tel. 1-800-263-8677 Tel. 450-375-1828 Fax 450-375-1408 <a href="http://www.topring.com">www.topring.com</a>
<b>Emergency phone number</b>	Quebec Poison Center: 1-800-463-5060 (toll free in QC) Ontario and Manitoba Poison Centres: 1-800-268-9017 or 419-813-5900 BC Drug and Poison Information Centre: 1-800-567-8911 (toll free in BC) or contact your local poison control centre in the state/province or territory where you live.  Canutec: 613-996-6666 or *666 on a cellular phone (for transportation)		

## 2. Hazard identification

<b>Summary</b>	Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use in a manner that avoids generating dust. Do not ingest. If ingested consult physician immediately and show this Safety Data Sheet. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.
----------------	---

### WHMIS 2015/OSHA HCS 2012/GHS



Respiratory sensitizer (Category 1)  
Skin sensitizer (Category 1)  
Germ cell mutagenicity (Category 2)  
Carcinogenicity (Category 2)  
Reproductive toxicity (Category 2)

### DANGER

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H317: May cause an allergic skin reaction  
H351: Suspected of causing cancer  
H341: Suspected of causing genetic defects  
H361: Suspected of damaging fertility or the unborn child  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P261: Avoid breathing dust.  
P264: Wash skin thoroughly after handling.  
P280: Wear gloves and eye protection.

P284: In case of inadequate ventilation, wear respiratory protection.  
 P308+313: IF exposed or concerned: Get medical attention.  
 P302+352: IF ON SKIN: Wash with soap and water.  
 P333+313: If skin irritation or a rash occurs: Get medical advice or attention.  
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
 P362+364: Take off contaminated clothing and wash before reuse.  
 P405: Store locked up.  
 P501: Dispose of contents and container to a licensed chemical disposal agency in accordance with local, regional and national regulations.

### 3. Composition/information on ingredients

Common name	CAS	Weight % content
Silica Gel	63231-67-4	99.7 - 99.95 %
Cobalt Chloride	7646-79-9	0.05 - 0.3 %

### 4. First-aid measures

<b>Inhalation</b>	Move person to fresh air. If not breathing, give artificial respiration. If a problem develops or persists, seek medical attention.
<b>Skin contact</b>	Wash skin with warm water and mild soap. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.
<b>Eye contact</b>	Flush with water for at least 15 minutes. Remove contact lenses if easy to do. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.
<b>Ingestion</b>	DO NOT induce vomiting, unless recommended by medical personnel. Never give anything by mouth if victim is unconscious or convulsing. If victim is conscious wash out mouth with water and give 1-2 glasses of water to drink. If a problem develops or persists, seek medical attention.
<b>Other</b>	No information available.
<b>Symptoms</b>	Powder can irritate eyes by mechanical friction. Powder may irritate throat and respiratory system and cause coughing. May cause an allergic reaction of the skin. May cause an allergic respiratory reaction.
<b>Notes to the physician</b>	Treat symptomatically. If gastric lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use appropriate extinguisher for surrounding fire.
<b>Specific hazards arising from the chemical</b>	Do not burn.
<b>Special protective equipment</b>	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
<b>Special protective actions for fire-fighters</b>	Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
<b>Environmental precautions</b>	For a large spill, consult the Department of Environment or the relevant authorities.
<b>Methods and materials for containment and cleaning up</b>	Ventilate the area well. Vacuum or sweep up and place in an appropriate waste disposal container. Avoid conditions that produce dust. Finish cleaning the contaminated surface by rinsing with soapy water.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Use in well ventilated area. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use in a manner that avoids generating dust. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions. Do not eat, do not drink and do not smoke during use. Wash hands, forearms and face thoroughly after handling this compound. Remove contaminated clothing and wash before reuse.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the original container. Store in a cool, dry, well-ventilated area. Keep away from moisture.
<b>Storage temperature</b>	2 to 45°C (35.6 to 113°F)

## 8. Exposure controls/personal protection

<b>Immediately Dangerous to Life or Health</b>	Silica Gel: 3000 mg/m <sup>3</sup> . Cobalt Chloride: 20 mg/m <sup>3</sup> , value as cobalt metal.			
Silica Gel	TWA (8h)	Respirable Dust	1.5 mg/m <sup>3</sup>	BC
		Respirable Dust	3 mg/m <sup>3</sup>	ACGIH
		Total Dust	4 mg/m <sup>3</sup>	BC
		Respirable Dust	6 mg/m <sup>3</sup>	RSST
		Total Dust	10 mg/m <sup>3</sup>	ACGIH , ON
Cobalt Chloride	TWA (8h)	Value as Metal	0.02 mg/m <sup>3</sup>	ACGIH , BC, ON, RSST
<b>Appropriate engineering controls</b>	Provide sufficient mechanical (general and/or local exhaust) to keep the airborne concentrations of dust below their respective occupational exposure limits.			
<b>Individual protection measures</b>				
<b>Eye</b>	Wear safety glasses with side shields. If there is a risk of contact with eyes, wear chemical splash goggles.			
<b>Hands</b>	Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Gloves must only be worn on clean hands.			
<b>Skin</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code.			
<b>Respiratory</b>	A respirator is not required in a well-ventilated area. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations			

and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA. For nuisance exposures use type N95 particle respirator.

**Feet**

No personal protection measure required.



## 9. Physical and chemical properties

<b>Physical state</b>	Granular solid	<b>Flammability</b>	Non-flammable.
<b>Colour</b>	Blue	<b>Flammability limits</b>	N/Ap.
<b>Odour</b>	Odourless	<b>Flash point</b>	N/Ap.
<b>Odour threshold</b>	N/Av.	<b>Auto-ignition temperature</b>	N/Av.
<b>pH</b>	5.5 to 9 @ 5%	<b>Sensibility to electrostatic charges</b>	No
<b>Melting point</b>	>1600°C (2912°F)	<b>Sensibility to sparks and/or friction</b>	No
<b>Freezing point</b>	N/Av.	<b>Vapour density</b>	N/Av. (Air = 1)
<b>Boiling point</b>	N/Av.	<b>Relative density</b>	2.1 kg/L (Water = 1)
<b>Solubility</b>	Insoluble in water.	<b>Partition coefficient n-octanol/water</b>	N/Av.
<b>Evaporation rate</b>	N/Ap.	<b>Decomposition temperature</b>	N/Av.
<b>Vapour pressure</b>	N/Av.	<b>Viscosity</b>	N/Ap.
<b>Percent Volatile</b>	0%	<b>Molecular mass</b>	N/Ap.

N/Av.: Not Available    N/Ap.: Not Applicable    Und.: Undetermined    N/E: Not Established

## 10. Stability and reactivity

<b>Reactivity</b>	Hygroscopic (absorb humidity).
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions (including polymerizations)</b>	A dangerous reaction will not occur.
<b>Conditions to avoid</b>	Keep away from moisture.
<b>Incompatible materials</b>	Hydrofluoric acid.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.





Silica Gel	63231-67-4	X							
Cobalt Chloride	7646-79-9	X							

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

**California Proposition 65**

No ingredients listed.

**Other regulations**

**WHMIS 1988**



D2A

Class D2A : Very toxic material causing other toxic effects

**HMIS**

1	Health
0	Flamability
0	Reactivity
X	Protective Equipment

**NFPA**



**16. Other information**

<b>Date (YYYY-MM-DD)</b>	Flow Dry Technology, Inc. 2017-04-20
--------------------------	--------------------------------------

<b>Version</b>	01
----------------	----

<b>Other information</b>	<p>REFERENCES:</p> <ul style="list-style-type: none"> <li>- Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), <a href="http://www.reptox.csst.qc.ca">http://www.reptox.csst.qc.ca</a></li> <li>- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, <a href="http://hazmap.nlm.nih.gov/index.php">http://hazmap.nlm.nih.gov/index.php</a></li> <li>- TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, <a href="http://toxnet.nlm.nih.gov/">http://toxnet.nlm.nih.gov/</a></li> <li>- The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, <a href="http://www.ncbi.nlm.nih.gov">www.ncbi.nlm.nih.gov</a></li> <li>- NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, <a href="http://www.cdc.gov/niosh/npg/npg.html">http://www.cdc.gov/niosh/npg/npg.html</a></li> <li>- Testing Status of Agents at NTP, National Toxicology Program, <a href="http://ntp.niehs.nih.gov">http://ntp.niehs.nih.gov</a></li> </ul> <p>ACGIH: American Conference of Governmental Industrial Hygienists          AIHA: American Industrial Hygiene Association          HMIS: Hazardous Materials Identification System          NFPA: National Fire Protection Association          OSHA: Occupational Safety and Health Administration (USA)          NIOSH: National Institute for Occupational Safety and Health</p>
--------------------------	--

NTP: National Toxicology Program  
RSST: Règlement sur la santé et la sécurité du travail (Québec)  
GHS: Globally Harmonized System  
IARC: International Agency for Research on Cancer  
IDLH: Immediately Dangerous to Life or Health  
STEL: Short Term Exposure Limit (15 min)  
TWA: Time Weighted Averages  
WHMIS: Workplace Hazardous Materials Information System

To the best of our knowledge, the information contained herein is accurate. However, neither PriZentis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.