

## Indicating Silica Gel

Revision Date: 04/07/15

### 1. Chemical Product and Company Identification

**Common Name:** Indicating Silica Gel, Blue Gel  
**Chemical Name:** Cobalt Dichloride impregnated Silica Gel,  
**CAS No:** 7631-86-9  
**Product Use:** Desiccant  
**Supplier:** Desiccare Inc  
 3400 Pomona Boulevard  
 Pomona, CA 91768  
 1-909-444-8272

### 2. Composition/Information on Ingredients

<i>Ingredient</i>	<i>Weight % in Product</i>	<i>Notes</i>
Silica Gel	99%	None
Cobalt Dichloride	0.9 %	

### 3. Hazards Identification

**Color:** Clear blue granules or spherical beads  
**Form:** Granules or spherical beads  
**Odor:** None  
**Flash Point, ° C:** Not Applicable

#### Potential Health Effects:

**Inhalation:** May cause irritation to the respiratory tract. Symptoms may include dryness, sore throat and wheezing.  
**Ingestion:** No adverse health effects are expected.  
**Skin Contact:** May cause dryness and mechanical irritation.  
**Eye Contact:** Large amounts of dust may cause irritation.  
**Carcinogenicity:** Possible cancer hazard based on tests with animals. Cobalt Dichloride is an IARC Group 2B Chemical

**Chronic Health Hazards:** Silica Gel does not produce silicosis. Possible cancer hazard.

**Aggravated Medical Conditions:** No information found.

#### 4. First Aid Measures

**Inhalation:** Move person to fresh air. Seek medical attention if necessary.

**Ingestion:** If large quantities are ingested, seek medical advice. Do not induce vomiting

**Skin Contact:** Flush skin with water. If irritation persists seek medical attention

**Eye Contact:** Flush Eyes with water for 15 minutes. If irritation persists seek medical attention.

#### 5. Fire Fighting Measures

**Flash Point, ° C:** Not Applicable

**Autoignition Temperature ° C:** Not Determined

**Lower Explosive Limit, %:** Not Determined

**Upper Explosive Limit, %:** Not Determined

**Extinguishing Media:** Use media appropriate for surrounding fire.

**Fire Fighting Procedures:** Positive pressure, self contained breathing apparatus. Protective clothing.

**Fire and Explosion Hazards:** Not a fire or explosion hazard.

#### 6. Accidental Release Measures

**Spill Procedures:** Contain spillage. Scoop or vacuum into a container for reclamation or disposal. Avoid dusting. Vacuuming or wet sweeping may be used to avoid dust.

#### 7. Handling and Storage

Keep container closed.

Store in cool, dry location.

Avoid Generating or breathing dust.

Use only with adequate ventilation.

#### 8. Exposure Controls/Personal Protection

<i>Ingredient</i>	<i>Weight % in product</i>	<i>OSHA PEL:</i>	<i>ACGIH TLV:</i>
Silica Gel	99	80 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Cobalt Dichloride	0.9	None listed	0.02 mg/m <sup>3</sup> (as Co)

**Personal Protective Equipment:** Safety glasses. Wear suitable gloves

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

**Ventilation:** General ventilation. Local exhaust ventilation is recommended.

## 9. Physical and Chemical Properties

<b>Form:</b>	Granules or spherical beads
<b>Color:</b>	Blue, clear
<b>Odor:</b>	None
<b>Specific gravity:</b>	2.1
<b>Solubility (water):</b>	Negligible
<b>pH:</b>	3-8 (5% slurry)
<b>Melting Point:</b>	1710 °C
<b>Boiling Point:</b>	2230 °C

## 10. Stability and Reactivity

<b>Stability Data:</b>	Stable
<b>Conditions/Hazards to avoid:</b>	None anticipated
<b>Incompatibility:</b>	Strong acids, strong bases and oxidizers. Fluoride compounds.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon and silicon may be formed when heated to decomposition temperature.
<b>Polymerization:</b>	None anticipated
<b>Polymerization-Avoid:</b>	None anticipated

## 11. Toxicological Information

**CAS# 7631-86-9**

**CAS# 7646-79-9**

### LD50/LC50

CAS# 7631-86-9

Draize Test, rabbit, eye: 25 mg/24H Mild;

CAS# 7646-79-9

Oral, mouse: LD50 = 80mg/kg

Oral, rat: LD50 = 80 mg/kg

Oral, rat: LD50 = 418 mg/kg

**Carcinogenicity:**

CAS# 7631-86-9: Not Listed by ACGIH, IARC,NTP or CA Prop 65

CAS# 7646-79-9:

ACGIH: A3- Confirmed animal carcinogen with unknown relevance to humans

California: Not listed

NTP: Not listed

IARC: 2B carcinogen (Soluble cobalt(II) salts)

## 12. Ecological Information

Ecotoxicity: Water flea Daphina: >1000 mg/L; 24 hrs

Environmental: It is expected have a low potential to affect aquatic life: It is not expected to biodegrade and unlikely to bioconcentrate.

## 13. Disposal Considerations

**US EPA Waste Number:** Not regulated

**Disposal of Waste Method:** Federal, state and local disposal laws will determine the proper waste disposal procedure.

## 14. Transport Information

### **International Transport Regulations:**

UN/PIN Number: Not Regulated

### **US Transportation Regulations:**

DOT Classification: Not Regulated

### **Canadian Transportation of Dangerous Goods (TDG):**

TDG Classification: Not Regulated.

## 15. Regulatory Information

This product or its' ingredients are listed on or compliant with the TSCA Inventory

**Section 313:** This material contains cobalt dichloride, which is subject to the reporting requirements of section 313 of SARA Title III and 40 CFR Part 373

**OSHA:** None of the chemicals in this product are considered highly dangerous by OSHA

### **European Union Regulations:**

Hazard Symbol: T

Risk Phrases: R 49 May cause cancer by inhalation.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in an aquatic environment

## 16. Other Information

### NFPA Classification

Health: 2

Flammability: 0

Instability: 0

Special Hazards:

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.