



MATERIAL SAFETY DATA SHEET

SECTION I. PRODUCT IDENTIFICATION

1.1 Product Identified

Product name: Silica Gel (Beaded)
Trade name: 2-5 mm Desiccant Beads (White, Blue)

SECTION II. HAZARD(S) IDENTIFICATION

2.1 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Respiratory sensitization	(Category 1), H334
Skin sensitization	(Category 1), H317
Reproductive toxicity	(Category 1B), H360
Acute aquatic toxicity	(Category 2), H401
Carcinogenicity	(Category 2), H351
Chronic aquatic toxicity	(Category 3), H412

2.2 Label Elements, including precautionary statements

Signal Word: Danger

Hazard Statement:

H317 May cause allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351 Suspected of causing cancer
H360 May damage fertility or the unborn child
H401 Toxic to aquatic life
H420 Harmful to aquatic life with long lasting effects

Precautionary Statements:

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P261 Avoid breathing dust
P271 Use only outdoors or in a well-ventilated area



- P272 Contaminated work clothing should not be allowed out of the workplace
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P285 In case of inadequate ventilation wear respiratory protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap
P304+P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep in position comfortable for breathing.
P308+P313 IF EXPOSED OR CONCERNED: Get medical advice.
P333+P313 If skin irritation or rash occurs: Get medical advice.
P363 Wash contaminated clothing before reuse
P501 Dispose of contents/container to an approved waste disposal plant in accordance with local regulation(s).

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: Silica Gel
Chemical Formula: SiO_2 – Silicon Dioxide
CAS # 7631-86-9
Composition: 99.0% SiO_2

SECTION IV. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation: Move the person to fresh air immediately. For breathing difficulties oxygen may be required. If breathing stops, provide artificial respiration. Get medical attention if discomfort continues.
Ingestion: Rinse mouth thoroughly, drink plenty of water. Get medical attention if symptoms appear.
Skin Contact: Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation persists after washing.
Eye Contact: Immediately flush with water for up to 15 minutes. Remove any contact lenses and open eyes wide. Continue for 15 minutes. Get medical attention if discomfort continues.

4.2 Most important symptoms and effects both acute and delayed

The most important known symptoms and effects are described in the labeling or see Section XI.

SECTION V. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide



5.2 Special Hazards arising from the substances or mixture

No data available.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION VI. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:

Wear protective gloves and proper respiratory equipment. Avoid inhalation of dust.

6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment should be avoided

6.3 Containment & Clean Up:

Use vacuum, shovel or broom. Avoid formation of dust. Dampen spillage area with water if necessary. Comply with local disposal regulations after clean up.

SECTION VII. HANDLING AND STORAGE

7.1 Usage Precautions:

Avoid spilling, making skin or eye contact, or dust inhalation. Do not eat, drink, or smoke when using product.

7.2 Storage Precautions:

Store in a tightly closed original container cool dry and well-ventilated place.

SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Controls / Personal Protection:

Silica Gel (SiO₂) 7631-86-9 OSHA PEL – (Vacated) TWA 6 mb/m³
Cobalt Chloride 7649-79-9 ACGIH TLV TWA: 0.02 mg/m³

8.2 Appropriate 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. Handle in accordance with good industrial hygiene and safety practices. Wash hands when handling.

8.3 Protective Equipment

Protective Equipment:

Provide general and local exhaust ventilation



Respiratory Equipment:

Proper respirator equipment should be available to employees handling the product

Hand Protection:

Gloves should be available to employees handling the product

Eye Protection:

Safety glasses are recommended but not required.

Hygiene Measures:

Wash hands at the end of the work shift and prior to eating, drinking or smoke breaks

Process Conditions:

Provide eyewash station

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Beads or granular
Color	White - Clear
Odor	None detected
p-H	4.0 – 8.0
Decomposition temperature	1700 C
Flash point	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	No information available
Partition coefficient: n-octanol/water	No information available
Viscosity	No information available
Molecular Formula	SiO ₂ – Silicon Dioxide
Molecular Weight	60.08

SECTION X. STABILITY AND REACTIVITY

10.1 Reactivity No data available

10.2 Stability Product is stable under normal temperature conditions and recommended use

10.3 Hazardous Reactions No data available

10.4 Conditions to Avoid This product is incompatible with powerful, Alkali metals, strong oxidizing agents.

10.5 Incompatible Materials Water contact with product, steam or water mixtures



10.6 Hazardous Decomposition Products No data available

SECTION XI. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effect

Acute Toxicity

Inhalation	Dust may irritate respiratory system or lungs. May have long term dust effects
Ingestion	May cause discomfort if swallowed
Skin Contact	May cause skin irritation
Eye Contact	May irritate the eyes
Oral LD50	Based on ATE Data, classification criteria are not met, ATE > 2,000 mg/kg
Dermal LD50	Based on ATE Data, classification criteria are not met, ATE > 2,000 mg/kg
Mist LC50	Based on ATE Data, classification criteria are not met, ATE > 5 mg/l
Irritation	No data available
Development affects	No data available
Sensitization	May cause sensitization by inhalation or skin contact
Carcinogenicity	Notation below indicates whether each agency has listed the ingredients as a carcinogen.
Silica Gel (SiO ₂) 7631-86-9	IARC (Not Listed), NTP (Not Listed), ACGIH (Not Listed), OSHA (Not Listed), Mexico (Not Listed)
Cobalt Chloride 7646-79-9	IARC (2B-Possible), NTP-OSHA (Not Listed), ACGIH (A-3 Confirmed animal carcinogen with unknown relevance to humans)
Reproductive Toxicity	No data available
Development affects	No data available
STOT – single exposure	No data available
STOT – repeated exposure	No data available
Aspiration Hazard	No data available

SECTION XII. ECOLOGICAL INFORMATION

<u>12.1 Toxicity</u>	No data available
<u>12.2 Persistence and degradability</u>	No data available
<u>12.3 Bioaccumulative potential</u>	No data available
<u>12.4 Mobility in soil</u>	No data available
<u>12.5 Results of PBT and vPvB assessment</u>	LC 50, 96 Hrs., Fish mg/l >1000 EC 50, 48 Hrs., Daphnia, mg/l >1000
<u>12.6 Other adverse effects</u>	Can be harmful to aquatic life – long term affects



SECTION XIII. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

This material and its container must be disposed of in compliance with local regulations.

SECTION XIV. TRANSPORT INFORMATION

DOT (USA)	This product is not covered by international regulations on transport of dangerous goods (IMDG, IATA, ADR, RID)
IMDG	This product is not covered by international regulations on transport of dangerous goods (IMDG, IATA, ADR, RID)
Transport Hazard Class	This product is not covered by international regulations on transport of dangerous goods (IMDG, IATA, ADR, RID)

SECTION XV. REGULATORY INFORMATION

15.1 Federal and state regulations:

SARA 302 Components	No Chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313. Cobalt dichloride CAS No. 7646-79-9 Revision date: 2009-07-17
SARA 311/312 Hazards	Chronic health hazard
Massachusetts Right to Know Components	Silica-Amorphous, precipitated CAS No. 112926-00-8 Revision date: 1993-04-24
Pennsylvania Right to Know Components	Silica-Amorphous, precipitated CAS No. 112926-00-8 Revision date: 1993-04-24 Cobalt dichloride CAS No. 7646-79-9 Revision date: 2009-07-17
New Jersey Right to Know Components	Silica-Amorphous, precipitated CAS No. 112926-00-8 Revision date: 1993-04-24 Cobalt dichloride CAS No. 7646-79-9 Revision date: 2009-07-17



California Proposition 65 Components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Toxic Control Substances Act (TSCA)

Listed on the TSCA inventory

DOT Classification

Not a DOT controlled material (United States)

15.2 Other Classifications

HMIS (USA)

Health hazard	1
Fire hazard	0
Reactivity	0
Personal Protection	E

National Fire Protection Association (USA)

Health	1 – SLIGHT Hazard
Flammability	0 – Normal Material
Reactivity	1 - SLIGHT Hazard

GHS USA

Classification System

Health Rating	5 – Minimal Hazard
Flammability Rating:	5 – Minimal Hazard
Reactivity Rating:	5 – Minimal Hazard
Contact Rating:	4 - SLIGHT Hazard
Storage Color Code:	Green – Minimal Hazard

Toxic Control Substances Act (TSCA)

This product complies with all applicable rules or orders under the Toxic Control Substances Act (TSCA)

SECTION XVI. OTHER INFORMATION

16.1 Preparation Date:

June 1, 2015

Revision Number

0

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.