

SAFETY DATA SHEET

Moisture Indicating Silica Gel, Blue

1. IDENTIFICATION

1.1. Product identifier

Product name Blue Indicating Gel
Product number Blue Indicating Gel – beads 1.0-3.0 mm, beads 2.0-5.0 mm, granular 1.0-3.0 mm and granular 2.0-5.0 mm.
Product synonyms Blue Gel, Moisture Indicating Blue Gel

1.2. Relevant identified uses of substances and uses advised against

Identified uses Desiccant, Adsorbent, Laboratory chemical, Process aid.

1.3. Details of the supplier of the safety data sheet

Company: Chem Source, Inc.
2831 St. Rose Pkwy., Suite 688
Henderson, NV 89052
USA

Telephone 714-701-9528

Fax 714-701-9517

1.4. Emergency telephone number

Emergency phone 714-369-8094

2. HAZARDS IDENTIFICATION

2.1. Classification of substance or mixture

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

Skin Sensitization	Category 1B
Respiratory Sensitization	Category 1B
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Acute Aquatic Toxicity	Category 2
Chronic Aquatic Toxicity	Category 3
Acute Oral Toxicity	Category 4

2.2. Label elements

Pictogram:



Signal word:

Danger

Hazard statements

H302	Harmful if swallowed.
H317	May cause an 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.
H412	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/fumes/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
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.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed: Call a POISON CENTER or doctor/physician.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P405	Store locked up.
P501	Dispose of contents / container to an approved waste disposal plant.

2.3. Other hazards

Upon contact with water, this product generates considerable heat.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixture

Component	CAS-No.	EC-No.	Composition
Silicon Dioxide, Amorphous	112926-00-8, 7631-86-9	231-545-4	97.0 – 99.9 wt. %
Cobalt (II) Chloride	7649-589-4	231-589-4	0.1 – 3.0 wt. %

4. FIRST AID MEASURES

4.1. Description of first aid measures

After inhalation:

Remove to fresh air. If unconscious, place patient in side position for transport. Apply artificial respiration if patient is not breathing. If breathing is difficult, give oxygen. Seek medical aid if cough or other symptoms are present.

After eye contact:

Immediately wash eyes with clean water while occasionally lifting eyelids. Do not rub eyes.

After skin contact:

Wash thoroughly with soap and water.

After swallowing:

Rinse mouth with water. Consult a physician or poison control center.

4.2. Most important symptoms, both acute and delayed

May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulty if inhaled. Toxic if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional relevant information available.

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing powder, foam or CO₂.

5.2. Special hazards arising from the substance or mixture

During fire, toxic fumes may be present.

5.3. Advice for firefighters

If necessary, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. Use personal protection equipment. Avoid formation of dust. Ensure adequate ventilation.

6.2. Environmental precautions

Do not let enter drains. Prevent further leakage or spillage if safe to do so. Avoid discharge into environment.

6.3. Methods and material for containment and cleaning up

Sweep up without creating dust. Place in clearly labeled container for chemical waste. If in beaded or pellet form, do not walk on beads or pellets as this may cause loss of balance or falling.

6.4. References to other sections

See Section 7 for safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. **HANDLING AND STORAGE**

7.1. **Precautions for safe handling**

Avoid contact with skin and eyes. Use NIOSH/MSHA approved dust mask.

7.2. **Conditions for safe storage, including any incompatibilities**

Hygroscopic. Keep in a dry place.

Keep container closed tightly in a dry, well ventilated location.

7.3. **Specific end uses(s)**

See section 1.2.

8. **EXPOSURE CONTROL/PERSONAL PROTECTION**

8.1. **Control parameters**

Regulatory Limits			Recommended Limits		
	OSHA PEL	Cal/OHSA PEL 8-hour TWA (as of 4/26/13)	NIOSH REL Up to 10-hour TWA (as of 4/25/13)	ACGIH® 2015 TLV® 8-hour TWA	
Substance	mppcf	mg/m ³	mg/m ³	mg/m ³	mg/m ³
Amorphous Silicon Dioxide CAS 112926-00-8	20	80	6 (total) 3 (resp.)	6	See TLV® book Appendix G
Cobalt (II) Chloride CAS 7646-79-9		0.1 as Co	0.05 as Co	0.02 as Co	OSHA Annotated Table Z-1

Basis : OSHA Table Z-3 Mineral Dusts and Annotated Table Z-1

8.2. **Exposure controls**

Engineering controls

Maintain concentrations below the TWA. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls. Eye wash and safety shower must be available in immediate work area.

Personal Protection Equipment (PPE)

Eyes: Tight fitting eye goggles, face shield or safety glasses with side shield protection as appropriate.

Hands: Close weave cotton or rubber gloves.

Clothing: Long sleeves with closed wristlets to avoid drying of skin and minimize skin contact.

Work/Hygienic Practices: Wash exposed areas thoroughly with soap and water after handling.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

9.1. **Information on basic physical and chemical properties**

Appearance: Translucent blue, white or pink powder, beads or granules of various sizes.

Odor: Odorless.

Odor Threshold: Not determined.

pH: Not determined.

Melting Point: 2900 °F

Boiling Point: Not applicable.

Flash Point: No data available.

Evaporation Rate: No data available

Flammability (solid, gas): Not flammable.

Upper/Lower Flammability/Explosive Limits: Not applicable.

Vapor Pressure (mm Hg.): Not applicable.

Vapor Density: Not applicable.

Specific Gravity (water = 1.0): 2.1

Solubility in Water: Not soluble.

Partition Coefficient (n-octane/water): Not Applicable.

Auto-ignition Temperature: Not applicable.

Decomposition Temperature: Not determined.

Viscosity: Not applicable.

Explosive properties: Not applicable.

Oxidizing Properties: Not applicable.

9.2. Other information

No data available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical Stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Hygroscopic substance, avoid moisture, avoid dust formation.

10.5. Incompatible materials

Strong acids or bases and oxidizing agents.

10.6. Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

No data available.

Skin irritation or corrosion

May cause irritation.

Serious eye damage/eye irritation

May cause irritation.

Respiratory or skin sensitization

No sensitizing effects known.

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: Group 3: Not classified as to its carcinogenicity to humans (Amorphous Silicon Dioxide)
Group 2B: Possibly carcinogenic to humans (Cobalt (II) Chloride).

NTP: No component of this product is present at levels $\geq 0.1\%$ is identified as a probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product is present at levels $\geq 0.1\%$ is identified as a probable, possible or confirmed human carcinogen by OSHA.

Reproductive toxicity

No data available. May damage fertility or the unborn child.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

7646-79-6 Cobalt (II) Chloride		
	Species	EC50/LC50
Fish	Cyprinus carpio	0.33 mg/l – 96 h
Invertebrate	Daphnia magna	1.1 – 1.6 mg/l – 48 h
Algae	Chlorella vulgaris	0.52 mg/l – 96 h

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative Potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment not available as chemical safety assessment not required or conducted.

12.6. Other adverse effects

Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal, treatment, or discharge may be subject to local, state and Federal regulations.

13.2. Contaminated Packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1. USDOT information:

This material is not regulated as hazardous material for Transportation.

TDG information:

This material is not regulated as hazardous material for Transportation.

IATA information:

This material is not regulated as hazardous material for Transportation.

15. REGULATORY INFORMATION

15.1. SARA 302

None of the components of this product are listed under SARA Section 302.

15.2. SARA 313

The following component is subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Cobalt (II) Chloride	7646-79-9	July 7, 2009

15.3. SARA 311/312

Chronic Health Hazard

15.4. Massachusetts Right To Know Components

	CAS-No.	Revision Date
Amorphous Silicon Dioxide	112926-00-8	April 24, 1993

New Jersey Right To Know Components

	CAS-No.	Revision Date
Amorphous Silicon Dioxide	112926-00-8	April 24, 1993

15.5. Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Amorphous Silicon Dioxide	112926-00-8	April 24, 1993
Cobalt (II) Chloride	7646-79-9	July 7, 2009

15.6. California Prop. 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.

16. OTHER INFORMATION

16.1. Shelf Life

The shelf life packaged in an undamaged, factory sealed container is 2 years.

16.2. Further Information

The information and recommendations contained herein is based upon our testing and experience, and is believed accurate. The information herein represents the current state of our knowledge regarding this product. Since operating and use conditions can vary, and since we do not control such conditions, we must DISCLAIM ANY WARRANTY, EXPRESSED OR IMPLIED, with regard results to be obtained from the use of this product. Chem Source, Inc. and its Affiliates shall not be held responsible for any damage resulting from handling or contacting this product.

16.3. Preparation Information

Issued by: Eric Rall
Revision Date: May. 2017
Revision: 4