



SAFETY DATA SHEET

Revision Date: 02/1/2023

Version 4.0

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Product Name Blue Indicating Silica Gel

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Adsorbent, Transformer Breathers, Tank Vent Dryers, Drum Vent Dryers, Air Drying Applications and Laboratory Reagent.

Details of the supplier of the safety data sheet Company
L2K Commerce
590 Apollo St. Ste A
Brea, CA 92821

Emergency telephone number 714-337-6239

SECTION 2. Hazards identification

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

GHS Label Elements including Precautionary Statements:

- Symbol :



- **Signal word:** Danger
- **Hazard statement(s)**
 - 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
 - H412 Harmful to aquatic life with long lasting effects
- **Precautionary statement(s)**
 - 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 at rest 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
 - P405 Store locked up
 - P501 Dispose of contents/container to an approved waste disposal plant in accordance with local regulation(s)

Sensitizing components: Cobalt dichloride May produce an allergic reaction

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

None

SECTION 3. Composition/information on ingredients

Ingredient	CAS No	Percent	R Phrases
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SDS For Blue Indicating Silica Gel

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Silica Gel	63231-67-4	> 99.7%	
Cobalt Chloride	7646-79-9	< 0.3%	R22,R36,R42/43

Chemical Formula: SiO₂. XH₂O + CoCl₂

SECTION 4. First aid measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Check for and remove contact lenses if possible. Get medical attention if irritation persists.

SECTION 5. Firefighting measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6. Accidental release measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Sweep up and containerise for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Regulations require reporting spills and releases to soil, water and air in excess of reportable quantities.

SECTION 7. Handling and storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. When pouring into a container of flammable liquid, ground both containers electrically to prevent a static electric spark. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8. Exposure controls/personal protection

Airborne Exposure Limits:

Silica (synthetic, amorphous):

- OSHA Permissible Exposure Limit (PEL) –
80/(%SiO₂) mg/m³ (TWA) for amorphous silica, including natural diatomaceous earth.
- ACGIH Threshold Limit Value (TLV) –
10 mg/m³ (TWA) for amorphous precipitated silica and amorphous silica gel.

For Inorganic Cobalt Compounds:

- ACGIH Threshold Limit Value (TLV) –
0.02 mg/m³ (TWA) as Co, A3: Animal carcinogen.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial ventilation, A Manual of Recommended practices, most recent edition, for details..

Personal Respirators:

If the exposure limit is exceeded, a half-face dust/mist respirator must be worn suitable for the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Respirators must meet the requirements of European Standard EN149 FF3SL. Suitable for use under COSHH, CAW, CLAW and IRR.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9. Physical and chemical properties

Appearance: Blue crystals..

Odor: Odorless.

Solubility: Silica gel base is insoluble in water; cobalt chloride may leach out.

Specific Gravity: 2.1

PH: 5.5-9.0 (in 5% slurry)%

Volatiles by volume @ 21°C (70°F): 0

Boiling Point: No information found.

Melting Point: No information found.

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

SECTION 10. Stability and reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Oxides of carbon and silicon may be formed when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatible Materials: Reacts with hydrogen fluoride, fluorine, oxygen difluoride, chlorine trifluoride, strong acids, strong bases, and oxidizers.

Conditions to Avoid: Moisture, extreme heat, and incompatible materials.

SECTION 11. Toxicological information

Toxicological Data: No LD50/LC50 information found relating to normal routes of occupational exposure.

Carcinogenicity: Cobalt and its compounds have been shown to cause cancer in laboratory animals.

SECTION 12. Ecological information

Environmental Fate: When released into the soil, this material is not expected to biodegrade. When released into water, this material is not expected to biodegrade.

Environmental Toxicity: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects..

SECTION 13. Disposal considerations

Waste Disposal Method

Dispose of in accordance with federal, state, and local environmental control regulations.

SECTION 14. Transport information

DOT Classification: Not classified as dangerous in the meaning of transport regulations

IMDG: Not classified as dangerous in the meaning of transport regulations

Transport hazard class(es): Not applicable

SECTION 15. Regulatory information

SARA 302 Components	Not subject to the requirements of SARA Title III, Section 302.
SARA 311/312	Potential Chronic Health Hazard from Respirable dust
Toxic Substances Control Act	Listed on the TSCA Inventory, this product complies with all applicable rules under TSCA
California Proposition 65 Components	Product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.
DOT Classification	Not a DOT controlled material

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Potential Health Effects

This product contains synthetic amorphous silica; not to be confused with crystalline silica such as quartz, cristobalite or tridymite or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a guarantee of any properties of the product.