



SAFETY DATA SHEET

Revision Date: 4/19/2017

Version 2.0

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
350 N Palm St.
Brea, CA 92821

Emergency telephone number 714-337-8288

SECTION 2. Hazards identification

Emergency Overview

SAFETY-DATA Ratings

Health Rating: - Moderate

Flammability Rating: - None

Reactivity Rating: - None

Contact Rating: Slight

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Orange (General Storage)

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.

Inhalation:

May cause dryness and irritation to mucous membranes, nose, and throat. Symptoms may include coughing, sore throat, and wheezing.

Ingestion: No adverse effects expected.

Skin Contact: May cause irritation with dryness and abrasion.

Eye Contact: May cause irritation, redness and pain.

Chronic Exposure: Repeated exposure may cause symptoms similar to those listed for acute effects. Synthetic amorphous silica does not produce silicosis.

Aggravation of Pre-existing Conditions: No information found.

SECTION 3. Composition/information on ingredients

Ingredient	CAS No	Percent	R Phrases
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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. XH₂₀ + CoC₁₂

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. 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.

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

Vapour 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.

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

Conditions to Avoid: Moisture, extreme heat, and incompatibles.

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: This material is not expected to be toxic to aquatic life.

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

SECTION 15. Regulatory information

SARA 301 Components	Not subject to 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 any other reproductive harm.
DOT Classification	Not a DOT controlled material

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Regional representation

This information is given on the authorized Safety Data Sheet for your country.

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