

MATERIAL SAFETY DATA SHEET

DelSORB®



Section 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: DelSORB® Chemical Name: Blue Indicating Silica Gel Synonyms: Amorphous Silica, Desiccant	Supplier: Delta Adsorbents 24 Congress Circle Roselle, IL 60172 USA Telephone: 630-980-5205 Fax: 630-980-5286
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Section 2: COMPOSITION & INFORMATION ON INGREDIENTS

Molecular Formula: SiO₂ · nH₂O + CoCl₂

CAS Number	Ingredient	Weight in Percent (%)	Hazardous
1343g98g2	Silica Gel	> 99.7	No
7646g79g9	Cobalt Chloride	< 0.3	Yes

Section 3: HAZARDS IDENTIFICATION

Potential Health Effects

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. Prolonged exposure to cobalt has been shown to cause cancer in laboratory animals.

Section 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

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

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

Section 5: FIRE & EXPLOSION DATA

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Fighting Media and Instructions: Use any means suitable for extinguishing surrounding fire.

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

Section 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Use respiratory protection and eye protection.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Vacuuming or wet sweeping may be used to avoid dust dispersal. Use respiratory protection and eye protection.

Section 7: HANDLING & STORAGE

Storage: Keep container tightly closed. It's suitable for any general chemical storage area. 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.

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Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:

Silica (synthetic, amorphous):	OSHA Permissible Limit (PEL) g 80 / (%SiO ₂) mg/m ³ (TWA) ACGIH Threshold Limit Value (TLV) g 10 mg/m ³ (TWA)
Inorganic Cobalt Compounds:	ACGIH Threshold Limit Value (TLV) g 0.02 mg/m ³ (TWA) as Co, A3: Animal Carcinogen.

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.

Personal Protection: Safety glasses. Lab coat. Respirator (NIOSH Approved). Gloves.

Section 9: PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Solid, crystals	Boiling Point:	Not applicable.
Color:	Blue	Melting Point:	Not applicable.
Odor:	Odorless	Vapor Pressure:	Not applicable.
Solubility:	Insoluble, Chloride may leach out.	Vapor Density:	Not applicable.
Specific Gravity:	2.1 (Water=1)	Evaporation Rate:	Not available.
pH :	5.5 g 9.0 (in 5% slurry)	% Volatiles by volume @ 21C (70F):	0

Section 10: STABILITY & REACTIVITY

Stability: The product is stable.

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

Hazardous Polymerization: Will not occur.

Incompatibility with powerful oxidizers: 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

Toxicity to Animals:

LD50: Not available.

LC50: Not available.

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

Section 12: ECOLOGICAL INFORMATION

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

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

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Section 15: OTHER REGULATORY INFORMATION

HMIS (U.S.A.):		National Fire Protection Association (U.S.A.):	
Health Hazard:	1	Health:	1
Fire Hazard:	0	Flammability:	0
Reactivity:	0	Reactivity:	0
Personal Protection:	E		

CAS Number	Ingredient	SARA 302	SARA 313
1343g98g2	Silica Gel	No	No
7646g79g9	Cobalt (II) Chloride	No	No

CAS Number	Ingredient	CERCLA	261.33	8(d)
1343g98g2	Silica Gel	No	No	No
7646g79g9	Cobalt (II) Chloride	1	No	No

Section 16: OTHER INFORMATION

References: Not available.
Other Special Considerations: Not available.

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