



DBI:: DR2 & DR3

MATERIAL SAFETY DATA SHEET –June 4, 2005
Blue Beaded Silica Gel, Type C, Grade 10B

SECTION 1. PRODUCT IDENTIFICATION

COMPANY NAME: Sphinx Adsorbents, Inc.
53 Progress Avenue
Springfield, MA 01104
PHONE: 413-736-5020
FAX: 413-736-8257
PRODUCT NAME: Blue Beaded Indicating Silica Gel
CHEMICAL NAME: Chemical Mixture

SECTION 2. COMPOSITION/INGREDIENTS

MATERIAL OR COMPONENT: Silica Gel (SiO₂) 99%
Cobalt Chloride 0.5%
HAZARD DATA: Silica Gel (SiO₂) Non Hazard CAS# 112926-00-8
Cobalt Chloride Hazardous CAS # 7646-79-9

SECTION 3. PHYSICAL DATA

APPEARANCE: Blue beads or granules
ODOR: Odorless
BOILING POINT: N/A
VAPOR PRESSURE (mm Hg): N/A
MELTING POINT: 1713°c
EVAPORATION RATE (Butyl Acetate = 1): N/A
WATER SOLUBILITY: Insoluble
BULK DENSITY (G/M3): 700-800 g/m³

SECTION 4. FIRE EXPLOSION DATA

FIRE & EXPLOSION HAZARDS: Negligible fire and explosion hazard when exposed to heat or flame by reaction with incompatible substances.
FLASH POINT: Nonflammable
FIRE FIGHTING MEDIA: Dry chemical, water spray, or foam. For larger fires, use water spray, fog or foam.
FIRE FIGHTING: Nonflammable solids, liquids or gases. Cool containers that are exposed to flames with water from the side until well after the fire is out. For massive fire in enclosed area, use unmanned hose holder or monitor nozzles, if possible, withdraw from area and let fire burn out. Withdraw immediately in case of rising sound from venting drums or any discoloration of the drums due to fire.

SECTION 5. REACTIVITY

STABILITY: Stable

INCOMPATIBILITY (materials to avoid): Oxidizing agents and metals (will corrode some metals)

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 6. HEALTH HAZARD DATA

Contains a suspected cancer causing agent – Risk of cancer depends on route of entry and duration and level of exposure. Overexposure may cause damage to the liver and kidneys, and to the cardiovascular system. May cause eye, skin and respiratory tract irritation. May cause allergic skin and respiratory reaction. Harmful if large amounts are swallowed. May cause gastrointestinal irritation, abdominal pain, nausea, vomiting and diarrhea.

ROUTES OF ENTRY **INHALATION** – yes
 INGESTION – yes
 SKIN – yes
 EYES -- yes

FIRST AID (Inhalation): Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

FIRST AID (Ingestion): If large amounts have been ingested, administer plenty of water. Emetics may be given to cause vomiting. Stomach siphon may be applied as well. Milk and fatty acids should be avoided. Get medical attention immediately.

FIRST AID (Eyes): Flush with water

FIRST AID (Skin): Wash with soap and water

CARCINOGENICITY

NTP? No	IARC? Yes	OSHA? No
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In evaluating Cobalt and Cobalt Compounds, the International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence of carcinogenicity to experimental animals and inadequate evidence of carcinogenicity to humans (Group 2B). The American Conference of Governmental Industrial Hygienists (ACGIH) has listed cobalt and inorganic cobalt compounds as animal carcinogens (A3). The National Toxicology Program (NTP) has not made a determination concerning cobalt and its compounds. The cobalt compound in this product has not been specifically identified as a possible carcinogen.

SECTION 7. SPILL OR LEAK PROCEDURES

Notify safety personnel of spills or leaks. Clean-up personnel need protection against inhalation of dusts or fumes. Eye protection is required. Place in appropriate containers for disposal, keeping airborne particulates at a minimum.

SPILL PROCEDURE: Sweep up

WASTE DISPOSAL: Comply with local regulations for non-hazardous chemical disposal.

SECTION 8. EXPOSURE CONTROLS / PERSONAL

EXPOSURE LIMITS:	PEL-OSHA	TLV-ACGIH
Silica Gel	6 mg/m ³	10 mg/m ³
CAS No. 63231-67-4		
Cobalt Chloride	None Established	0.02 mg/m ³ (as Co)
CAS No. 7646-79-9		

SPECIAL PROTECTION AND CONTROL METHODS:

Respiratory: NIOSH/MSHA approved dust mask when working with material.

Ventilation: Natural ventilation or local exhaust ventilation as required to control and air contaminants to within their PEL's or TLV's during the handling of product.

Protective Gloves: Working gloves

Eye Protection: Safety glasses with side shields.

Other protective Clothing or equipment: N/A

TRANSPORTATION AND SHIPPING REQUIREMENTS:

D.O.T. Shipping Name: N/A

D.O.T. Hazard Classification: non-hazardous

D.O.T. Labels Required: none

Hazardous Waste: None

SECTION 9. STORAGE PRECAUTIONS

Store in a dry, well ventilated place, below 115°F, away from heat source. Keep containers tightly closed. Protect product from physical damage. Always reseal containers after opening.

SECTION 10. NFPA/HMIS

HEALTH: 1

FIRE: 0

REACTIVITY: 0

SPECIFIC HAZARD: See section 6.