

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- Product Name / Identifier: sSORB Blue Indicating
- Synonym: Blue Indicating Silica Gel; Amorphous Silica
- Relevant identified uses of the substance or mixture and uses advised against
 - Relevant uses: Adsorbent
- Company: Interra Global, 164 S Prospect Ave, Park Ridge, IL 60068, USA
- Telephone: +1 (847)292-8600
- Emergency Telephone Number: +1(847)292-8600

2. HAZARD(S) 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
 - Pictogram:



- 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 of 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 into 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. 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 regulations
- Sensitizing components: Cobalt dichloride
- May product an allergic reaction
- Hazards not otherwise classified (HNOC) or not covered by GHS: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

- Chemical identity: $\text{SiO}_2 \cdot n\text{H}_2\text{O} + \text{CoCl}_2$
- Common name: Blue Indicating Silica Gel; Amorphous Silica
- Numbers of identity:
 - CAS-Nr. : 112926-00-8 (> 99.7%) (Silica Gel)
 - EC-No. : 231-545-4
 - CAS-Nr. : 7646-79-9 (< 0.3%) (Cobalt Dichloride)
 - EC-No. : 231-589-4
- Cobalt dichloride is included in the Candidate List of Substances of Very High Concentration (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)
- Impurities: None

4. FIRST AID MEASURES

- Description of first aid measures
 - General advice: Consult a qualified medical professional. Show this data sheet to the doctor in attendance. Move out of the dangerous area. Never give anything by mouth to an unconscious person.
 - If ingested: Give several glasses of water to drink to dilute. If large amounts are ingested, get medical advice.
 - Skin contact: Wash with soap and water. Get medical attention if irritation develops.
 - Eye contact: Flush eyes with plenty of water. Check for and remove any contact lenses if possible. Continue flushing eyes with water for at least 15 minutes. Get medical attention if irritation occurs.
 - Inhalation: Move individual to fresh air. If breathing is difficult, get medical attention.

- Most important symptoms and effects both acute and delayed.
The most important known symptoms and effects are described in the labelling (see section 2) and/or section 11.
- Indication of any immediate medical attention and special treatment: No data available.

5. FIREFIGHTING MEASURES

- Extinguishing media
 - Suitable extinguishing media: Any media suitable for the surrounding fire.
- Special hazards arising from the substance or mixture
 - Fire hazards: Not considered to be a fire hazard
 - Explosion hazards: Not considered to be an explosion hazard

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment, and emergency procedures:
 - Use personal protective equipment.
 - Avoid breathing dust.
 - Ensure adequate ventilation.
 - For personal protection see section 8.
- Environmental precautions:
 - Prevent further leakage of spillage if safe to do so.
 - Do not let product enter drains.
 - Discharge into the environment must be avoided.
- Methods and material for containment and cleaning up:
 - Use appropriate tools to put the spilled solid in a convenient waste disposal container.
 - Dispose of material according to local and regional requirements.

7. HANDLING AND STORAGE

- Precautions for safe handling
 - Avoid contact with skin and eyes.
 - Do not breathe dust.
 - Containers of this material may be hazardous when empty since they retain product residues (e.g., dust solids).
 - For precautions see section 2.2
- Conditions for safe storage, including any incompatibilities:
 - Suitable for any general chemical storage area.
 - Keep container tightly closed.
 - Hygroscopic.
 - Do not store super sacks outside: ultraviolet radiation and other adverse conditions will negatively impact its integrity and may eventually cause the bag to fail.
- Specific end use(s):
 - Apart from the uses mentioned in section 1.2, no other specific used are stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- o Control parameters/exposure limits

Component	CAS-No.	Value	Control Parameters	Basis
Silica-Amorphous, precipitated	112926-00-8	TWA	6.000000 mg/m ³	USA. OSHA - Table Z-1 limits for Air Contaminants - 1910.1000
Silica-Amorphous, precipitated	112926-00-8	TWA	20.000000 million particles/ft ³	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
	Remark(s)	Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques. Mppcf x 35.3 = million particles per cubic meter = particles per c.c.		
Silica-Amorphous, precipitated	112926-00-8	TWA	80.000000 mg/m ³ / % SiO ₂	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
	Remark(s)	See table Z-3		
Silica-Amorphous, precipitated	112926-00-8	TWA	6.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits
Cobalt dichloride	7646-79-9	TWA	0.020000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
	Remark(s)	Pulmonary function Asthma Myocardial effects Confirmed animal carcinogen with unknown relevance to humans varies		

- o Appropriate engineering controls
 - o 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. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

- Personal protective equipment
 - Safety glasses, lab coat, gloves, and dust respirator. Be sure to use an NIOSH approved respirator or equivalent.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Information on basic physical and chemical properties
 - Physical state: Solid, crystals/beads
 - Color: Blue-pink
 - Odor: Odorless
 - Odor threshold: No data available
 - pH-value: 5.5 - 9.0 (in 5% slurry)
 - Melting point: No data available
 - Freezing point: No data available
 - Initial boiling point: No data available
 - Flash point: No data available
 - Evaporation rate: No data available
 - Flammability (solid, gas): Non-flammable
 - Explosion limits: No data available
 - Vapor pressure: Not applicable
 - Vapor density: Not applicable
 - Relative density: 2.1 (Water = 1)
 - Solubility: Insoluble, chloride may leach out
 - Partition coefficient: No data available
 - Auto-ignition temperature: No data available
 - Decomposition temperature: No data available
 - Viscosity: No data available

10. STABILITY AND REACTIVITY

- Reactivity: No data available
- Chemical stability: The product is stable under normal ambient and anticipated storage and handling conditions of temperature and storage.
- Possibility of hazardous reactions: No data available.

- Conditions to avoid: See Section 7
- Incompatible materials: The product is incompatible with powerful, alkali metals, strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

- Information on toxicological effect
- Acute toxicity
 - Inhalation: No data available
 - Ingestion: No data available
 - Dermal: No data available
- Skin corrosion/irritation: No data available
- Serious eye damage / eye irritation: No data available
- Respiratory or skin sensitization: No data available
- Germ cell mutagenicity: No data available
- Carcinogenicity
 - IARC: 2B – Group 2B: Possibly carcinogenic to humans (Cobalt chloride)
 - IARC: 3 – Group 3: Not classifiable as to its carcinogenetic to humans (Silica-Amorphous, precipitated)
- Reproductive toxicity: No data available
- Specific target organ toxicity following repeated exposure: No data available
- Aspiration hazard: Dust may irritate lungs
- Information on likely routes of exposure: Absorbed through skin, eye contact, inhalation, and ingestion
- Additional information: Exposure to dust particles may cause irritation of the respiratory tract. May cause dryness and irritation to mucous membranes, nose, and throat. Symptoms may include coughing, sore throat, and wheezing. May cause slight irritation and abrasion in case of skin contact. Dust may cause eye irritation, redness, and pain.

12. ECOLOGICAL INFORMATION

- Toxicity: Silica gel is not expected to be toxic to aquatic life.
- Persistence and degradability: No data available
- Bioaccumulative potential: No data available
- Mobility in soil: No data available
- Results of PBT and vPvB assessment: No data available
- Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

- Waste treatment methods
 - Product: Dispose of in accordance with federal, state, and local environmental control regulations
 - Contaminated packaging: Packaging may contain residual dust. Dispose of in accordance with federal, state, and local environmental control regulations

14. TRANSPORT INFORMATION

- DOT (U.S.A): Not a dangerous good
- IMDG: Not a dangerous good
- Transport hazard class(es): Not applicable
- Packing group: Not applicable
- Environmental hazards: See section 12
- Transport in bulk: Not applicable
- Special precautions for users: Not applicable

15. REGULATORY INFORMATION

- Federal and state regulations:
- SARA 302 components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

- SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313.
 - Cobalt dichloride
 - CAS-No.:7646-79-9
 - Revision date: 2009-07-17
- SARA 311/312 hazards: Chronic health hazards
- Massachusetts Right to Know components
 - Silica-Amorphous, precipitated
 - CAS-No.: 112926-00-8
 - Revision date: 1993-04-24
- Pennsylvania Right to Know Components
 - Silica-Amorphous, precipitated
 - CAS-No.: 112926-00-8
 - Revision date: 1993-04-24
 - Cobalt dichloride
 - CAS-No.: 7646-79-9
 - Revision date: 2009-07-17
- New Jersey Right to Know Components
 - Silica-Amorphous, precipitated
 - CAS-No.: 112926-00-8
 - Revision date: 1993-04-24
 - Cobalt dichloride
 - CAS-No.: 7646-79-9
 - Revision date: 2009-07-17
- California Proposition 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.
- Toxic Control Substances Act (TSCA): Listed on the TSCA Inventory.
- DOT classification: Not a DOT controlled material (United States)
- Other classifications
 - HMIS (U.S.A.)

- Health hazard: 2
- Fire hazard: 0
- Reactivity: 0
- Personal protection: E
- National Fire Protection Association (U.S.A.)
 - Health: 2
 - Flammability: 0
 - Reactivity: 0
- Tox Control Substances Act (TSCA): This product complies with all applicable rules or orders under the Toxic Control Substances Act (TSCA).

16. OTHER INFORMATION

- Preparation:
 - Preparation Date: June 1, 2015
 - Revision Date: February 21, 2023
 - Revision Number: 5
 - Revised By: AH
 - Approved By: CB

- Warranty:
 - The information contained herein is based upon data considered true and accurate. However, Interra Global makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. This information is offered solely for the user's consideration, investigation, and verification. Since the use and conditions of this information and the material described herein are not within the control of Interra Global, it assumes no responsibility for injury to the user or third persons. The material described herein is sold only pursuant to Interra Global's Terms and Conditions of Sale, including those limiting warranties and remedies contained therein. It is the responsibility of the user to determine whether any use of this data and information is in accordance with applicable federal, state, or local laws and regulations.