

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name : sSORB Blue Indicating
Synonym : Blue Indicating Silica Gel; Amorphous Silica

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

Recommended use : Adsorbent

1.3 Details of the supplier of the safety data sheet

Producer : Interra Global Corporation
800 Busse Highway, Suite 101
Park Ridge, IL 60068
USA

Telephone : +1 (847) 292-8600

1.4 Emergency telephone number

Emergency : +1 (847) 292-8600

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

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

2.2 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 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

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity	: SiO ₂ · nH ₂ O + 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

4.1 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.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media : Any media suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Fire hazards : Oxides of carbon and silicon may be formed when heated

Explosion hazards : Not applicable

5.3 Advice for firefighters

Not applicable

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials 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**7.1 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.

7.2 Conditions for safe storage, including any incompatibilities

Suitable for any general chemical storage area. Keep container tightly closed. Hygroscopic.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 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		

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

8.3 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

9.1 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

10.1 Reactivity

No Data Available.

10.2 Chemical stability

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and storage.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

This product is incompatible with powerful, Alkali metals, strong oxidizing agents.

10.6 Hazardous decomposition products

Other decomposition products – No data available.
In the event of fire see section 5.1.

11. TOXICOLOGICAL INFORMATION

11.1 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 carcinogenic to humans
(Silica-Amorphous, precipitated)

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity following single exposure

No data available

Specific target organ toxicity following repeated exposure

No data available

Aspiration hazard

Dust may irritate lungs. Amorphous silica is not known to cause silicosis.

11.2 Information on likely routes of exposure

Absorbed through skin, eye contact, inhalation, and ingestion.

11.3 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.

RTECS: Not available

Stomach – Irregularities – Based on human evidence

Stomach – Irregularities – Based on human evidence (Silica-amorphous, precipitated)

Stomach – Irregularities – Based on human evidence (Cobalt dichloride)

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

No data available.

12.2 Persistence and degradability

No data available.



12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 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

13.1 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 classes

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

15.1 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 hazard

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)

15.2 Other classifications

HMIS (U.S.A.)

Health hazard	: 1
Fire hazard	: 0
Reactivity	: 0
Personal protection	: E

National Fire Protection Association (U.S.A.)

Health	: 1
Flammability	: 0



Reactivity : 0

Toxic Control Substances Act (TSCA)

This product complies with all applicable rules or orders under the Toxic Control Substances Act (TSCA).

16. OTHER INFORMATION

16.1 Preparation date:

June 1, 2015

Revision Number:

0

16.2 Warranty

The information contained herein is based upon data considered true and accurate. However, Interra Global Corp. 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 Corp., it assumes no responsibility for injury to the user or third persons. The material described herein is sold only pursuant to Interra'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.