



1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name : sSORB
Synonym : 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

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity : $\text{SiO}_2 \cdot n\text{H}_2\text{O}$
Common name : Silica Gel; Amorphous Silica
Numbers of identity : CAS-Nr.: 7631-86-9
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. Do not induce vomiting. If large amounts are ingested, get medical advice.

Skin contact

Wash with soap and water. Cover the irritated skin with an emollient. 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 : Not considered to be a fire hazard

Explosion hazards : Not considered to be an explosion hazard

5.3 Advice for firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

No special precautions.

6.3 Methods and materials for containment and cleaning up



Use appropriate tools to put the spilled solid in a convenient waste disposal container. Vacuuming or wet sweeping may be used to avoid dust dispersal. Dispose of material according to local and regional requirements.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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 the material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

7.2 Conditions for safe storage, including any incompatibilities

Suitable for any general chemical storage area.

Keep container tightly closed.

Hygroscopic. Keep in a dry place.

Storage class (TRGS 510): Non-combustible solids

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

NIOSH REL : TWA 6 mg/m³

OSHA PEL : TWA 20 mppcf (80 mg/m³/%SiO₂)

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. Facilities storing or handling this material should be equipped with an eyewash station.

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

Color : White, Translucent



Odor	: Odorless
Odor threshold	: No data available
pH-value	: 3.0 – 8.0 (in 5% slurry)
Melting point	: 1610C (2930F)
Freezing Point	: No data available
Initial boiling point	: 2230C (4046F)
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
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

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

Chemical stability

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

Conditions to avoid

Moisture, extreme heat, and incompatibles.

Incompatible materials

This product is incompatible with with hydrogen fluoride, fluorine, oxygen difluoride, chlorine trifluoride, strong acids, strong bases, and oxidizers.

Hazardous decomposition products

Oxides of carbon and silicon may be formed when heated to decomposition.

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 special risk under normal use. Dusts of particulates may cause minor abrasion. May cause dryness.

Serious eye damage/eye irritation

No special risk under normal use. Dusts of particulates may cause mechanical irritation, possibly including pain, tearing, and redness. Scratching of the cornea can occur if eye is rubbed.

Respiratory or skin sensitization

No special risk under normal use. Inhalation of airborne particulate may lead to mechanical irritation of the respiratory tract and mucous membranes.

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: 3 – Group 3 - Not classifiable as to its carcinogenicity to humans (Silica-Amorphous, precipitated).

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 does not produce silicosis.

11.2 Information on likely routes of exposure

Inhalation and contact

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
No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. 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

This material does not contain any chemical components with known CAS numbers that exceed the threshold (de Minimis) reporting levels established by SARA Title III, Section 313.

DOT Classification



Not a DOT controlled material (United States)

15.2 Other classifications

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 : 3
 Revision Date : May 9, 2016
 Revised By : KT
 Approved By : BW

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 Global Corp'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.