



1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name : sSORB Orange to Clear Indicating Silica Gel
Synonym : Orange Indicating Silica Gel
Synthetic Amorphous Precipitated 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
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 : $\text{SiO}_2 + \text{H}_2\text{O} + (\text{NH}_4)_2\text{SO}_4 \cdot \text{FeSO}_4 \cdot 6\text{H}_2\text{O}$
Common name : Orange Indicating Silica Gel; Amorphous Silica
Numbers of identity : CAS-Nr.: 112926-00-8 (>99.7%) (Silica Gel)
: CAS-Nr.: 7783-85-9 (<1.8%) (Coloring Agent)
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. 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 : Oxides of carbon and silicon may be formed when heated
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.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust. Dust mask is essential if conditions are dusty. Wear appropriate protective clothing. Ensure adequate ventilation. For personal protection see section 8 for exposure limits.

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. Water used to clean contaminated surfaces may be allowed to evacuate through the sanitary system.

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.

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 |
| Coloring Agent | 7783-85-9 | TWA | 0.500000 mg/m ³ | ACGIH 8 hour TWA. |

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 that store or handle this material should be equipped with an eyewash station.

8.3 Personal protective equipment

Safety glasses, lab coat, 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 | : Orange to clear |
| 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

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

Product may react with powerful oxidizers (see section 10.1)

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

This product is incompatible with powerful oxidizers (see section 10.1).

10.6 Hazardous decomposition products

No data available.

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

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

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

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.

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:

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.

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

New Jersey Right to Know Components

Silica-Amorphous, precipitated

CAS-No.: 112926-00-8

Revision date: 1993-04-24

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.



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** : 3
- Revision Date** : September 13, 2018
- 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.