

## **SAFETY DATA SHEET**

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

- Product Name/Identifiers: sSORB Orange Indicating; Orange Indicating Silica Gel; Synthetic Amorphous Precipitated Silica
- Recommended Use: Adsorbent
- Producer: 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**

- Classification of the substance or mixture: Not a hazardous substance or mixture
- GHS label elements, including precautionary statements: Not a hazardous substance or mixture
- Hazards not otherwise classified (HNOC) or not covered by GHS: None

### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

- Chemical identity:  $\text{SiO}_2 + \text{H}_2\text{O} + (\text{NH}_4)_2\text{SO}_4 \bullet \text{FeSO}_4 \bullet 6\text{H}_2\text{O}$
- 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**

- 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.
- 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.
- 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 needed: No data available.

## **5. FIREFIGHTING MEASURES**

- Suitable extinguishing media: Any media suitable for the surrounding fire.
- Fire hazards: Oxides of carbon and silicon may be formed when heated
- Explosion hazards: Not considered to be an explosion hazard
- Advice for firefighters: Use protective clothing and breathing equipment appropriate for the surrounding fire.

## **6. ACCIDENTAL RELEASE MEASURES**

- 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.
- Environmental precautions: No special precautions.
- 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

- 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.
- Conditions for safe storage, including incompatibilities: Suitable for any general chemical storage area. Keep container tightly closed. 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, no other specific uses are stipulated.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Control parameters/exposure limits:

Component	CAS-No.	Value	Control Parameters	Basis
Silica-Amorphous, precipitated	112926-00-8	TWA	6.000000 mg/m <sup>3</sup>	USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
Silica-Amorphous, precipitated	112926-00-8	TWA	20.000000 Million particles/ft <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
	<b>Remark(s)</b>	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	112926-00-8	TWA	80.000000 mg/m <sup>3</sup> / % SiO <sub>2</sub>	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
	<b>Remark(s)</b>	See table Z-3		
Silica-Amorphous, precipitated	112926-00-8	TWA	6.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
Coloring Agent	7783-85-9	TWA	0.500000 mg/m <sup>3</sup>	ACGIH 8-hour TWA.

- 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 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.
- 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**

- Physical state: Solid
- Color: Orange
- Odor: Odorless
- Odor threshold: No data available
- pH-value: 3.0 – 8.0 (in 5% slurry)
- Melting point: 1610 °C (2930 °F)
- Freezing point: No data available
- Initial boiling point: 2230 °C 4046 °F
- 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: No data available.
- Chemical stability: The product is stable under normal ambient and anticipated storage and handling conditions of temperature and storage.
- Conditions to avoid: Product may react with powerful oxidizers (see section 10).
- Conditions to avoid: No data available.
- Incompatible materials: This product is incompatible with powerful oxidizers (see section 10).
- Hazardous decomposition products: No data available.

## 11. TOXICOLOGICAL INFORMATION

- 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 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 is present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.
  - NTP: No component of this product is 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 does not produce silicosis.
- Information on likely routes of exposure: Absorbed through skin, eye contact, inhalation, and ingestion.

## **12. ECOLOGICAL INFORMATION**

- Toxicity: No data available.
- 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: No data available.

## **13. DISPOSAL CONSIDERATIONS**

- 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**

- 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 211/312 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)
- 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**

- Preparation Date: August 18, 2020
  - Revision Number: 5
  - Revision Date: February 21, 2023
  - Revised By: AH
  - Approved By: CB

**16 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.