

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- Product Name/Identifiers: Silica Gel; sSORB: Amorphous 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: $\text{SiO}_2 \cdot n\text{H}_2\text{O}$
- Common name: Silica Gel; Amorphous Silica
- Numbers of identity: CAS-Nr.: 7631-86-9
- Impurities: None

4. FIRST AID MEASURES

- 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. 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.
- 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: Not considered to be a fire hazard
- 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: Ensure adequate ventilation. For personal protection, see section 8.
- 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.

7. HANDLING AND STORAGE

- Keep in a tightly sealed container and stored in a cool, dry, and 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 this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
- Suitable for any general chemical storage area. Keep container tightly closed. Product is hygroscopic; keep in a dry place. Storage class (TRGS 510): Non-combustible solids

- 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:
 - NIOSH REL: TWA 6 mg/m³
 - OSHA PEL: TWA 20 mppcf (80 mg/m³/%SiO₂)
- 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.
- 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

- Physical state: Solid
- Color: White, Translucent
- 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
- 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 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

- 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.
- Information on likely routes of exposure: Inhalation and contact.

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: 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

- 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)
- 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: 3
 - Revision Date: February 21, 2023
 - Revised By: AH
 - Approved By: CB

16 WARRANTY

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