



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Silica Gel
- Product Number: SIL-20260211
- Brand: SIGALD
- CAS-No.: 7631-86-9
- Synonyms: Silicon Dioxide Hydrate; Silica Gel Desiccant

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses

- Identified Uses: Desiccant (food, electronics, pharmaceuticals), adsorbent, catalyst support, chromatography stationary phase, pet litter.
- Uses Advised Against: Direct oral consumption; use as food additive without authorization.

SECTION 2: Hazards Identification

2.1 GHS Classification: Eye irritation (Category 2A); Skin irritation (Category 2)2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation)
- Precautionary Statements: P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/eye protection), P305+P351+P338 (If in eyes: Rinse cautiously with water)

SECTION 3: Composition

- Substance: Mixture (Hydrated Silicon Dioxide)
- Formula: $\text{SiO}_2 \cdot n\text{H}_2\text{O}$ ($n=0.5-2$)
- Molecular Weight: Variable ($60.08 + 18.02n$) g/mol
- Concentration: $\geq 98.0\%$ (SiO_2)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If coughing persists, consult a doctor.
- Skin Contact: Rinse skin with running water for 10 minutes.



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- Eye Contact: Rinse eyes thoroughly with running water for 15 minutes. Consult a doctor if irritation remains.
- Swallowed: Rinse mouth with water. Do not induce vomiting. Seek medical advice if discomfort occurs.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry powder, CO₂.
- Special Hazards: Non-combustible. No hazardous combustion products.
- Firefighter Protection: Wear standard fire-fighting gear.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear gloves, eye protection.
- Cleanup Methods: Sweep up, transfer to sealed containers for disposal or regeneration.

SECTION 7: Handling and Storage

- Handling: Avoid dust formation. Operate in well-ventilated area.
- Storage: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed.
- Regeneration: Heat at 120-150°C for 2-4 hours to restore adsorption capacity.
- Shelf Life: 24 months (unopened, proper storage).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Nitrile gloves, safety goggles, dust mask (for fine powder grades).
- Engineering Controls: Good ventilation.

SECTION 9: Physical and Chemical Properties

- Physical State: Beads/granular/powder
- Color: White
- Odor: Odorless
- Melting Point: > 1600°C (decomposes)
- Solubility: Insoluble in water and most solvents; soluble in hydrofluoric acid.
- pH (5% suspension): 5.5-7.5
- Density: 1.1-1.3 g/cm³ (25°C)
- Specific Surface Area: 500-900 m²/g

SECTION 10: Stability and Reactivity

- Stable under normal conditions. Incompatible with hydrofluoric acid, strong alkalis.

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): > 10000 mg/kg
- Skin Irritation: Mild irritation.
- Eye Irritation: Moderate irritation.

SECTION 12: Ecological Information

- Aquatic Toxicity: Low toxicity to aquatic organisms.
- Biodegradability: Not biodegradable.

SECTION 13: Disposal Considerations



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- Dispose in accordance with local regulations. Classified as non-hazardous waste. Regenerable for reuse.

SECTION 14: Transport Information

- UN Number: Not regulated as dangerous goods
- Transport Hazard Class: -
- Packaging Group: -

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, FDA (for food contact desiccant) regulations.

SECTION 16: Other Information

- Revision Date: 11 FEB 2026

