



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: Bentonite
- Product Number: BEN-20260205
- Brand: SIGALD
- CAS-No.: 1302-78-9
- Synonyms: Montmorillonite Clay; Bentonite Clay

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: Drilling fluid additive, foundry sand binder, wastewater treatment (flocculant), cosmetics (absorbent), food additive (anti-caking agent), cat litter.
- Uses Advised Against: Direct oral consumption without food grade certification.

SECTION 2: Hazards Identification

2.1 GHS Classification: Eye irritation (Category 2A); Skin irritation (Category 2); Respiratory irritation (Category 3)
2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation), H335 (May cause respiratory irritation)
- Precautionary Statements: P261 (Avoid breathing dust), P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/eye protection)

SECTION 3: Composition

- Substance / Mixture: Natural Mineral Mixture
- Formula: $Al_2O_3 \cdot 4SiO_2 \cdot H_2O$ (Average empirical)
- Molecular Weight: Variable (380-400 g/mol)
- Main Components: Montmorillonite (70-80%), Quartz (5-10%), Other Clay Minerals (5-10%)

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; remove contaminated clothing.



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- Eye Contact: Rinse with plenty of water for 10-15 minutes. Consult a doctor if irritation remains.
- Swallowed: Rinse mouth with water; do not induce vomiting. Seek medical advice if large amounts are ingested.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, CO₂, dry powder.
- Special Hazards: Non-combustible; no hazardous combustion products.
- Firefighter Protection: Wear standard fire-fighting gear; avoid inhalation of dust.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear gloves, eye protection, dust mask (for large spills).
- Cleanup Methods: Sweep up with inert materials; transfer to sealed containers.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; avoid dust inhalation.
- Storage Conditions: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); keep sealed.
- Shelf Life: 36 months (unopened).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Nitrile gloves, safety goggles, dust mask (P2/N95 for large-scale handling).
- Engineering Controls: Good ventilation, dust collection system.

SECTION 9: Physical and Chemical Properties

- Physical State: Powder
- Color: Light gray to off-white
- Odor: Earthy odor
- Solubility: Insoluble in water (swells to form gel)
- pH (5% suspension): 6.0-9.0
- Density (25°C): 2.0-2.3 g/cm³
- Swelling Capacity: ≥ 10 mL/g (2h)

SECTION 10: Stability and Reactivity

- Stable under normal storage. Incompatible with strong acids, strong bases.

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): > 10000 mg/kg; Skin/Eye Irritation: Mild to moderate.

SECTION 12: Ecological Information

- Environmentally friendly; biodegradable in soil.

SECTION 13: Disposal Considerations

- Dispose via licensed waste facilities; can be used as soil amendment.

SECTION 14: Transport Information

- UN Number: Not dangerous goods
- Transport Hazard Class: -
- Special Precautions: Avoid moisture, dust dispersion.

SECTION 15: Regulatory Information



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- Complies with GHS, REACH, TSCA, FDA (Food Additive), EU E-number (E558).

SECTION 16: Other Information

- Revision Date: 05 FEB 2026

