



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: Sodium Alginate
- Product Number: SAL-20260212
- Brand: SIGALD
- CAS-No.: 9005-38-3

Synonyms: Alginic acid sodium salt; Seaweed polysaccharide sodium salt

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: Food additive (thickener/gelling agent), cosmetics (texture modifier), pharmaceuticals (excipient), textile printing (thickener), water treatment (flocculant), agriculture (soil conditioner).
- Uses Advised Against: Avoid mixing with strong acids (forms insoluble alginic acid); not for injectable pharmaceutical use without purification.

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, P280, P305+P351+P338
- 2.3 Physical/Chemical Hazards: Non-combustible; forms stable gel with divalent cations (Ca^{2+} / Mg^{2+}) in water; no explosive risks.
- 2.4 Health Hazards: Mild skin/eye irritation; inhalation of powder may cause temporary cough/respiratory irritation.
- 2.5 Environmental Hazards: Eco-friendly; fully biodegradable (microbial degradation); derived from renewable seaweed resources; no harm to aquatic/soil organisms.

SECTION 3: Composition

- Substance / Mixture: Natural Polymer (extracted from brown seaweed)
- Main Component: Sodium alginate ($\geq 90.0\%$ on dry basis)



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- Inactive Components: Moisture ($\leq 15\%$), inorganic ash (30–38%, non-hazardous)
- Hazardous Ingredients: None

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If coughing persists, drink water to soothe throat and consult a doctor if needed.
- Skin Contact: Rinse skin with running water for 5 minutes; remove contaminated clothing and wash before reuse.
- Eye Contact: Rinse with plenty of water for 10–15 minutes (hold eyelids open). Consult a doctor if irritation/blurriness remains (gel formation may cause temporary vision impairment).
- Swallowed: Rinse mouth with water; no special treatment needed (non-toxic). Seek medical advice only if large amounts are ingested (may cause mild gastrointestinal discomfort).

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, CO₂, dry powder.
- Special Hazards: Non-combustible; no hazardous combustion products; heated powder may release mild organic fumes.
- Firefighter Protection: Wear standard fire-fighting gear; no special respiratory protection required (avoid dust inhalation).

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear nitrile gloves, safety goggles, and dust mask for large spills (avoid powder inhalation).
- Cleanup Methods: Sweep up with inert materials (sand/vermiculite) and transfer to sealed HDPE containers; small spills can be wiped with damp cloth (prevents dust).
- Environmental Precautions: No special measures; biodegradable, no risk of soil/water contamination.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; avoid dust inhalation and skin/eye contact; mix with water slowly (stir continuously) to prevent clumping.
- Storage Conditions: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); keep sealed in moisture-proof packaging; avoid direct sunlight and high humidity.
- Incompatibilities: Strong acids (pH <3), concentrated mineral acids, high-concentration divalent cation solutions (Ca²⁺ /Mg²⁺).
- Shelf Life: 24 months (unopened, under specified conditions).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Nitrile gloves, safety goggles for routine handling; N95 dust mask for bulk powder operations; lab coat for industrial use.
- Engineering Controls: Basic ventilation; dust collection system for large-scale powder processing.
- Occupational Exposure Limits: No established limits (non-toxic, low irritation).

SECTION 9: Physical and Chemical Properties

- Physical State: Free-flowing powder (25°C)
- Color: White to pale yellow
- Odor: Odorless/faint seaweed-like odor
- Solubility: Soluble in water (forms viscous gel), insoluble in ethanol/ether/acetone
- Viscosity: 200–1000 mPa·s (1% aq. solution, 25°C)
- pH: 6.0–8.0 (1% aq. solution, 25°C)
- Bulk Density: 0.3–0.5 g/cm³
- Melting Point: Decomposes (no melting, >200°C)
- Flammability: Non-combustible
- Water Absorption: Hygroscopic (absorbs ambient moisture)

SECTION 10: Stability and Reactivity

- Stable under normal storage/use conditions; hygroscopic but no chemical degradation.
- No hazardous reactions under normal use; forms insoluble alginic acid with strong acids.
- Hazardous Decomposition Products: Carbon dioxide, water (decomposition at >200°C, no toxic fumes).

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): >10,000 mg/kg (non-toxic)
- Dermal LD₅₀ (Rabbit): >5000 mg/kg (non-toxic)
- Skin Irritation: Mild (Rabbit, 4h exposure, reversible)
- Eye Irritation: Moderate (Rabbit, 24h exposure, reversible)
- No mutagenic/carcinogenic/reproductive toxic effects reported; FDA GRAS for food use.

SECTION 12: Ecological Information

- Aquatic Toxicity (Zebrafish LC₅₀): >5000 mg/L (96h)
- Persistence and Degradability: Fully biodegradable (100% degradation in 28 days via microbial action)
- Bioaccumulative Potential: None (natural polysaccharide, no bioaccumulation)
- Environmental Fate: Degrades to CO₂ and water; no soil/water accumulation.

SECTION 13: Disposal Considerations

- Product Waste: Dispose via licensed waste facilities; or mix with water and discharge to biological wastewater treatment systems (per local regulations).
- Packaging Waste: Rinse with water, recycle as plastic/ paper waste (non-hazardous).

SECTION 14: Transport Information

- UN Number: Not dangerous goods
- Transport Hazard Class: -
- Packaging Group: -
- Marine Pollutant: No
- Special Precautions: Avoid moisture, collision, and high humidity during transport; keep sealed.



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SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, FDA (GRAS), EU Food Additive (E401), GB 1886.242-2020 (China food standard).
- Not listed as a hazardous chemical; no EU SVHC classification.

SECTION 16: Other Information

- Revision Date: 12 FEB 2026
- This MSDS is based on current scientific and industrial data for food/industrial grade sodium alginate.

