



# 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, GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Sodium Benzoate
- Product Number: SB-20260225
- Brand: SIGALD
- CAS-No.: 532-32-1

Synonyms: Benzoic acid sodium salt; Benzoate of soda

#### 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 & Restrictions

- **Identified Uses:** Food preservative (E211), pharmaceutical preservative, cosmetic preservative, industrial biocide, water treatment fungicide, paint preservative
- **Uses Advised Against:** Excessive use in food beyond international regulatory limits; use in infant food ( $\leq 12$  months) without official approval

### SECTION 2: Hazards Identification

2.1 GHS Classification: Eye irritation (Category 2A); Acute aquatic toxicity (Category 3)  
2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark), GHS09 (Environment)
- Signal Word: Warning
- Hazard Statements: H319 (Causes serious eye irritation), H402 (Harmful to aquatic life)
- Precautionary Statements: P264, P280, P305+P351+P338, P337+P313, P273, P391

2.3 Physical/Chemical Hazards: Non-combustible; non-explosive; decomposes at  $>400^{\circ}\text{C}$  to

benzoic acid and carbon dioxide; no hazardous reactions under normal use  
2.4 Health Hazards: Mild eye irritation; no skin irritation or acute oral/dermal toxicity; excessive ingestion may cause mild gastrointestinal discomfort (nausea, diarrhea)  
2.5 Environmental Hazards: Harmful to aquatic life; no bioaccumulation potential; benzoate ion is fully biodegradable in soil and water

### SECTION 3: Composition/Information on Ingredients

- **Substance/Mixture:** Pure Substance
- **Main Component:** Sodium Benzoate (99.6%, CAS:532-32-1)



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- **Formula:** C<sub>7</sub> H<sub>5</sub> O<sub>2</sub>Na
- **Molecular Weight:** 144.11 g/mol
- **Hazardous Ingredients:** None (non-hazardous in regulated dosages)

## SECTION 4: First Aid Measures

- **Inhaled:** Move to fresh air. Drink water to soothe throat; consult a physician if coughing or irritation persists.
- **Skin Contact:** Rinse skin with running water for 3-5 minutes; remove contaminated clothing and wash before reuse. No special treatment required.
- **Eye Contact:** Hold eyelids open and rinse thoroughly with running water for 10-15 minutes; consult an ophthalmologist if irritation, redness or blurriness remains.
- **Swallowed:** Rinse mouth with water; do not induce vomiting. Seek medical advice only for large ingestions with gastrointestinal discomfort.

## SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, CO<sub>2</sub>, dry powder (no special requirements for non-combustible product)
- **Special Hazards:** Non-combustible; no hazardous combustion products; slight benzoic acid fumes may form at extreme high temperatures (>400°C)
- **Firefighter Protection:** Wear standard fire-fighting gear; N95 dust mask if powder is generated during fire

## SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear safety goggles and nitrile gloves for large spills; N95 dust mask to avoid inhalation of powder.
- **Cleanup Methods:** Sweep up powder with inert material (sand/vermiculite) and transfer to sealed HDPE containers; wipe small spills with damp cloth to prevent dust; dilute and flush small amounts to wastewater system per local regulations.
- **Environmental Precautions:** Prevent runoff into waterways; contain large spills with dikes to avoid aquatic contamination.

## SECTION 7: Handling and Storage

- **Handling:** Operate in well-ventilated area; avoid eye contact and powder inhalation; use plastic/glass equipment for processing.
- **Storage Conditions:** Cool, dry, well-ventilated warehouse (≤30°C); store in sealed HDPE/paper drums; avoid direct sunlight and high humidity; separate food-grade from industrial grade; keep away from strong acids.
- **Incompatibilities:** Strong mineral acids (HCl, H<sub>2</sub>SO<sub>4</sub>) – forms insoluble benzoic acid precipitate
- **Shelf Life:** 36 months (unopened, under specified storage conditions); 6 months after opening (seal tightly after use)

## SECTION 8: Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** No established limits (FDA GRAS, EU E211)



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- **Engineering Controls:** Basic ventilation; dust collection system for bulk powder processing
- **PPE:**
  - Eye/Face: Safety goggles (routine handling); face shield (bulk transfer)
  - Skin: Nitrile gloves (optional for routine use; mandatory for bulk handling)
  - Respiratory: N95 dust mask (bulk powder operations); no respirator needed for small-scale use

### SECTION 9: Physical and Chemical Properties

- Physical State: White crystalline powder/granules (25°C)
- Odor: Odorless/faint benzoic acid odor
- Solubility: 62 g/100mL (water, 20°C); slightly soluble in ethanol; insoluble in non-polar solvents
- pH (5% aq. solution, 25°C): 7.7
- Density: 1.44 g/cm<sup>3</sup> (25°C)
- Melting Point: >300°C (decomposes)
- Flammability: Non-combustible
- Hygroscopy: Slightly hygroscopic
- Bulk Density: 0.6-0.8 g/cm<sup>3</sup>

### SECTION 10: Stability and Reactivity

- **Stability:** Chemically stable under normal storage and use conditions (≤30°C, sealed); slightly hygroscopic with no degradation
- **Hazardous Reactions:** No hazardous reactions under normal use; reacts with strong acids to form benzoic acid precipitate (no exothermic reaction)
- **Decomposition Products:** Benzoic acid, carbon dioxide, sodium carbonate (at >400°C; no toxic byproducts)

### SECTION 11: Toxicological Information

- Oral LD<sub>50</sub> (Rat): 1700 mg/kg (low toxicity; FDA GRAS)
- Dermal LD<sub>50</sub> (Rabbit): >5000 mg/kg (non-toxic, no skin irritation)
- Inhalation LC<sub>50</sub> (Rat): >5 mg/m<sup>3</sup>/4h (no respiratory irritation)
- Skin Irritation: None (Rabbit, 4h exposure)
- Eye Irritation: Category 2A (mild, reversible irritation; Rabbit, 24h exposure)
- Carcinogenicity: IARC Group 3 (Unclassifiable as to carcinogenicity to humans); no mutagenic/reproductive toxic effects

### SECTION 12: Ecological Information

- Aquatic Toxicity (Zebrafish LC<sub>50</sub>): 480 mg/L/96h (Category 3, harmful)
- Aquatic Toxicity (Daphnia EC<sub>50</sub>): 350 mg/L/48h (harmful)
- Persistence: Fully biodegradable (BOD<sub>5</sub>/COD >0.5); benzoate ion degrades to CO<sub>2</sub> and water
- Bioaccumulative Potential: None (log K<sub>oc</sub>: 1.5; no biomagnification in food chain)
- Environmental Fate: Dissociates into benzoate and Na<sup>+</sup> in water; Na<sup>+</sup> is a natural inorganic ion with no environmental impact

### SECTION 13: Disposal Considerations



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- **Product Waste:** Dispose via licensed waste treatment facilities; dilute with water and discharge to biological wastewater treatment systems (per local regulations); small amounts of food-grade product can be disposed as non-hazardous waste
- **Packaging Waste:** Rinse thoroughly with water; recycle as non-hazardous plastic/paper waste; separate food-grade packaging for dedicated recycling
- **Contaminated Material:** All cleanup materials are non-hazardous; dispose as ordinary industrial waste

### SECTION 14: Transport Information

- UN Number: Not dangerous goods
- Transport Class/Packaging Group: N/A
- Marine Pollutant: Yes (H402)
- **Precautions:** Transport by ordinary vehicles; avoid collision, leakage, direct sunlight and high temperature; keep sealed; do not transport with strong acids

### SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, FDA (GRAS E211), EU Food Additive Regulation (1333/2008)
- Not classified as a hazardous chemical (China GB 13690-2009)
- No EU SVHC listing; meets global food safety standards (FSSC 22000, HACCP)

### SECTION 16: Other Information

- **Revision Date:** 25 FEB 2026
- **Notes:** Optimal preservative effect in acidic media (pH 2.5-6.0) for food/beverage applications; follow national/regional dosage limits for food use

纳维盈医化科技  
NEWAY SINOPHC TECH