



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)

- Sodium Acetate (Food Grade)

(Compliant with GB/T 16483, GB/T 17519; Adapts to GHS Rev.9, IMDG, IATA Standards) **Revision**

Date: 29 FEB 2026

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers

- Product Name: Sodium Acetate (Food Grade)
- Product Number: SA-20260229
- Brand: SIGALD
- CAS-No.: 127-09-3
- EINECS/EC-No.: 204-823-8
- MDL Number: MFCD00012459
- Synonyms: Sodium ethanoate; Acetic acid sodium salt; Food Grade Buffer
- 1.2 Details of the supplier of the safety data sheet
- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE
- Telephone: +86-021-50350029
- Fax: +86-021-50350029
- 1.3 Emergency telephone
- Emergency Phone #: +86-021-50350029 (CHEMTREC)
- 1.4 Relevant Identified Uses and Uses Advised Against

- Identified Uses: Food additive (acidity regulator, buffer, preservative, flavor improver, sequestrant) for beverage, dairy, meat products, condiments, baked goods, canned food and instant food industries; also used as a pH adjuster in food processing.
- Uses Advised Against: No restricted uses for food-grade application; avoid excessive inhalation of dust for asthmatic individuals.

SECTION 2: Hazards Identification

2.1 GHS Classification Not a hazardous substance or mixture (GHS 0 category); mild respiratory/eye irritation may occur from bulk dust inhalation (no formal GHS classification).

2.2 GHS Label Elements

- Hazard Pictograms: None
- Signal Word: None
- Hazard Statements: None
- Precautionary Statements:
 - P261: Avoid breathing dust
 - P304+P340: If inhaled: Move person to fresh air and keep comfortable for breathing
 - P337+P313: If eye irritation persists: Get medical advice/attention
- 2.3 Physical and Chemical Hazards No physical/chemical hazards; non-combustible, no explosion risk, no oxidative

properties; hygroscopic (absorbs moisture from air to form a syrupy liquid); stable under normal food processing and storage conditions.

- 2.4 Health Hazards
- No acute/chronic systemic toxicity; mild transient respiratory/eye irritation in sensitive individuals from bulk dust contact; no skin irritation/sensitization, no known allergenicity.
 - Overconsumption may cause mild gastrointestinal discomfort (bloating, nausea) in humans, no toxic effect; no cumulative toxicity, genotoxicity or carcinogenicity.
- 2.5 Environmental Hazards
- Environmentally friendly; fully biodegradable (microbial degradation to CO₂ and H₂O); sodium ions are natural mineral elements.
 - No acute aquatic toxicity (Zebrafish LC₅₀, 96h >20000 mg/L); no bioaccumulation potential; no soil/water pollution risk.
- 2.6 Other Hazards
- Hygroscopic nature may cause caking if exposed to air; no other hazards for food-grade application.

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure substance (food grade)
- Chemical Name: Sodium ethanoate
- Formula: C₂H₃NaO₂
- Molecular Weight: 82.03 Da
- CAS-No.: 127-09-3
- EINECS/EC-No.: 204-823-8

Component	Classification	Concentration (w/w)	CAS No.	Hazard Statements
Sodium Acetate (Food Grade)	Non-hazardous	≥99.0%	127-09-3	None
Water	Non-hazardous	≤1.0%	7732-18-5	None

SECTION 4: First Aid Measures

4.1 Description of First-Aid Measures

- **Inhalation:** Move victim to fresh air, keep airway open. Rinse mouth with water; no special treatment if no discomfort. Consult a doctor if coughing/irritation persists for more than 2 hours.
 - **Skin Contact:** Brush off residual powder, rinse affected area with running water for 3-5 minutes. No further treatment needed (no skin irritation); dry skin thoroughly.
 - **Eye Contact:** Rinse eyes cautiously with plenty of running water for 5-10 minutes (hold eyelids open). Remove contact lenses if present and easy to do. Consult a doctor only if mild irritation persists.
 - **Ingestion:** Rinse mouth with water, drink plenty of water or milk (do not induce vomiting). No special treatment if no discomfort; consult a doctor if abdominal pain/bloating occurs (only for large ingestion).
- 4.2 Most Important Symptoms and Effects
- Acute: Mild transient respiratory/eye irritation from bulk dust; mild gastrointestinal discomfort from large oral ingestion.



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- Delayed: No known delayed toxic effects based on comprehensive toxicological testing.4.3 Indication of Immediate Medical AttentionNo immediate medical attention required for normal food-grade handling/accidental contact; consult a doctor only if irritation symptoms persist or large amounts are ingested with severe discomfort.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- **Suitable:** All common fire-extinguishing media (water spray, CO₂, dry chemical powder, foam).
 - **Unsuitable:** None (no fire hazards associated with the product).
- ### 5.2 Special Hazards Arising from the Substance or Mixture
- Non-combustible; no flammable vapors/gases produced during combustion.
 - Decomposes at high temperature (>600°C) to produce non-toxic carbon dioxide, water and sodium oxide; no hazardous combustion products.
- ### 5.3 Advice for Firefighters
- Wear standard fire-fighting gear (no special protective equipment required); fight fire from upwind.
 - Cool exposed containers with water spray if near fire (prevent thermal expansion); no special firefighting precautions needed.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

- Wear N95 dust mask and disposable food-grade nitrile gloves for large spills (to avoid dust inhalation/skin contact); ensure good ventilation in the spill area.
 - No open flames/sparks required (no fire risk); no special PPE for small spills.
- ### 6.2 Environmental Precautions

- No special environmental precautions; the product is non-toxic and biodegradable. Prevent large spills from entering drains/sewers only to avoid clogging (no pollution risk).
- ### 6.3 Methods and Materials for Containment and Cleaning Up

- **Small Spill:** Sweep into a sealed HDPE container for reuse; wipe the area with a dry cloth (dispose as general waste).
 - **Large Spill:** Collect with a dust-free vacuum cleaner into sealed food-grade drums for reuse; if wet (hygroscopic), absorb with diatomaceous earth and transfer to sealed containers (no environmental disposal required).
 - **Note:** Keep collected powder in a sealed container to prevent hygroscopic caking.
- ### 6.4 Reference to Other Sections
- See Section 13 for waste disposal; Section 8 for PPE details.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Operate in a well-ventilated area to prevent dust accumulation (hygroscopic dust may cause mild irritation).
- Use dry food-grade equipment/tools (HDPE, stainless steel) to avoid moisture contact (prevents caking); avoid generating excessive dust during weighing/mixing.



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- Hygiene Measures: Wash hands/face thoroughly with soap and water after handling; do not eat/drink/smoke in the processing area; keep work surfaces dry.
 - **Storage Type:** Store in a cool, dry, well-ventilated food-grade warehouse; temperature $\leq 25^{\circ}\text{C}$, relative humidity $\leq 50\%$ (critical for preventing hygroscopic caking).
 - **Containers:** Sealed food-grade HDPE plastic drums/ aluminum foil bags (with desiccant inside); label clearly with product name and "Keep Dry" warning.
 - **Incompatibilities:** No significant incompatibilities; avoid long-term contact with strong mineral acids (reacts to form acetic acid) and excessive moisture.
 - **Separation:** Store separately from hygroscopic food additives and wet food raw materials; no special separation distance required.
 - **Shelf Life:** 36 months (unopened, in specified dry storage conditions); 6 months after opening (if resealed with desiccant).
- 7.3 Specific End Use Only for food production as acidity regulator, buffer, preservative and flavor improver; compliant with GB 2760/FDA/EC dosage limits.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

- No official occupational exposure limits (OEL) for food-grade sodium acetate; follow general industrial dust limit (10 mg/m^3 TWA) for bulk handling (national occupational health standards).

8.2 Exposure Controls

- **Engineering Controls:** Local exhaust ventilation (air exchange rate ≥ 6 times/hour) for bulk handling/loading/unloading; closed mixing systems to minimize dust release.
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** N95 dust mask (**only** for bulk dust handling; no respirator required for normal use).
 - **Eye/Face Protection:** Food-grade safety glasses (recommended for large-scale dust handling; no face shield required).
 - **Skin Protection:** Disposable food-grade nitrile gloves (optional; no chemical protective suit required).
 - **Other:** Dust-proof food-grade overalls and non-slip shoes (for industrial processing).

8.3 Environmental Exposure Controls

- No special environmental exposure controls; use closed transfer systems to prevent dust release and hygroscopic caking; no wastewater/air pollution associated with handling.

SECTION 9: Physical and Chemical Properties

Property	Details (25°C, 1 atm)
Physical State	White crystalline powder
Color	Pure white
Odor	Odorless
Taste	Slightly salty, mild acetic taste
Melting Point	324°C (decomposition)
Boiling Point	N/A (decomposes before boiling)

Property	Details (25°C, 1 atm)
Flammability	Non-combustible
Flash Point	Not applicable
Autoignition Temperature	>600°C
Vapor Pressure	<0.0001 kPa (25°C)
Vapor Density	N/A (solid, no vapor)
Relative Density (Water=1)	1.528
pH Value (5% aqueous)	7.5-9.0
Water Solubility	Highly soluble (46.5 g/100mL at 25°C)
Hygroscopy	Highly hygroscopic (absorbs moisture to form liquid)
Viscosity	N/A (solid; 5% aqueous solution: 2-3 mPa·s)
Refractive Index	N/A (solid)
Corrosivity	Non-corrosive to metal/plastic/glass (food-grade materials)

SECTION 10: Stability and Reactivity

10.1 Chemical Stability: **Highly stable** under recommended storage/handling conditions (dry, sealed, ≤25°C); no decomposition, no polymerization under normal food processing conditions (0-121°C). 10.2 Possibility of Hazardous Reactions:

- Reacts with strong mineral acids (HCl, H₂SO₄) to form acetic acid (no gas/heat release, non-hazardous).
- No hazardous reactions with water, food ingredients or other food additives (except strong mineral acids).
- 10.3 Conditions to Avoid: Excessive moisture/high humidity (causes hygroscopic caking), high temperature (>600°C, decomposition), long-term contact with strong mineral acids.
- 10.4 Incompatible Materials: Concentrated strong mineral acids (hydrochloric acid, sulfuric acid, nitric acid); no other significant incompatibilities.
- 10.5 Hazardous Decomposition Products: Non-toxic carbon dioxide (CO₂), water (H₂O) and sodium oxide (Na₂O) at >600°C; no toxic decomposition products.
- 10.6 Hazardous Polymerization: Will not occur under any conditions (food-grade sodium acetate).

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

- **Acute Toxicity:** Oral (Rat, LD₅₀) >3000 mg/kg; Dermal (Rabbit, LD₅₀) >5000 mg/kg; Inhalation (Rat, LC₅₀) >1000 mg/m³/4h – **Practically non-toxic.**
- **Skin Corrosion/Irritation:** No skin irritation (Rabbit, 24h exposure; GHS 0 category).
- **Serious Eye Damage/Irritation:** Mild transient eye irritation from bulk dust (GHS 0 category); no irreversible eye damage.
- **Respiratory Irritation:** Mild transient respiratory irritation from bulk dust (GHS 0 category).
- **Germ Cell Mutagenicity:** Negative (Ames test, chromosome aberration test; no genotoxicity).
- **Carcinogenicity:** IARC Group 3 (not classifiable as to carcinogenicity to humans; no evidence of carcinogenicity).
- **Reproductive Toxicity:** No reproductive/developmental toxicity (rat feeding test at 5000 mg/kg/day; safe for maternal/fetal health).

- **Specific Target Organ Toxicity:** No single/chronic target organ toxicity (even at high dosage; excess sodium acetate is excreted by the human body).11.2 Additional InformationSodium acetate is a natural metabolite (formed from acetic acid in the human body) and a common food additive; no cumulative toxicity, no adverse effects at food-grade application levels; suitable for all population groups including infants, the elderly and pregnant women.

SECTION 12: Ecological Information

12.1 Toxicity:

- Aquatic: Zebrafish (LC₅₀, 96h) >20000 mg/L (non-toxic); Daphnia (EC₅₀, 48h) >20000 mg/L (non-toxic); Algae (EC₅₀, 72h) >10000 mg/L (non-toxic).
- Terrestrial: No toxic effect on soil microorganisms/plants; sodium ions act as a natural mineral nutrient for plants.12.2 Persistence and Degradability: Fully biodegradable (BOD₅ /COD >0.95); degraded by aerobic/anaerobic microorganisms into CO₂ and H₂O within 3-5 days (no environmental persistence).12.3 Bioaccumulative Potential: Log Kow = -3.4 (no bioaccumulation potential; highly water-soluble, rapidly metabolized by organisms).12.4 Mobility in Soil: Moderate mobility; sodium ions bind weakly to soil particles, no leaching risk to groundwater; acetate is rapidly degraded by soil microbes.12.5 PBT/vPvB Assessment: Not classified as PBT/vPvB (biodegradable, non-toxic, no bioaccumulation, low persistence).12.6 Other Adverse Effects: No known long-term ecological effects; the product improves soil microbial activity (acetate is a microbial nutrient); no soil/water pollution risk.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- **Uncontaminated Product Waste:** Reuse directly (even if caked, grind and dry for use); expired waste can be disposed of as general solid waste (non-hazardous) or mixed with organic fertilizer (sodium/acetate as plant nutrients).
- **Contaminated Waste:** Collect in sealed HDPE containers, dispose of through licensed general waste treatment facilities (no hazardous waste treatment required).
- **Packaging Waste:** Rinse containers thoroughly with water (meet food hygiene standards); recycle/dispose of as non-hazardous plastic/foil waste (no residual hazards).13.2 Disposal Compliance: Comply with China General Solid Waste Pollution Control Law, Food Safety Law and local environmental regulations; no hazardous waste disposal procedures required.

SECTION 14: Transport Information

14.1 UN Number: None (non-hazardous substance)14.2 UN Proper Shipping Name: None (not a hazardous good)14.3 Transport Hazard Class(es): None14.4 Packaging Group: None14.5 Environmental Hazards: IMDG Marine Pollutant: **No**; ADR/RID: No14.6 Special Precautions for User

- Transport in sealed food-grade HDPE drums/aluminum foil bags (with desiccant inside) to prevent moisture contact and hygroscopic caking.



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- Use covered dry transport vehicles; avoid rain, snow, moisture and direct sunlight during transport (maintain relative humidity $\leq 60\%$).
- Secure containers to prevent tipping/collision; no mixing with strong mineral acids, wet food raw materials or hygroscopic substances in the same vehicle.
- No special transport documentation required (non-hazardous food additive); comply with general food raw material transport regulations. 14.7 Further Information: Complies with ADR/RID, IMDG, IATA-DGR regulations for non-hazardous goods; no special transport restrictions.

SECTION 15: Regulatory Information

15.1 National/International Regulations

- **China:** Compliant with GB 2760 (National Food Safety Standard for Food Additives), GB 1886.194-2016 (Food Additive Sodium Acetate); classified as non-hazardous chemical (Hazardous Chemical Safety Management Regulation); approved for use in all food categories with no dosage limit (GMP).
 - **EU:** Compliant with EC 1333/2008 (Food Additive Regulation); E262 (food additive code); REACH registered (no SVHC); approved for all food categories (GMP).
 - **US:** TSCA listed (CAS 127-09-3); FDA GRAS (21 CFR Part 184.1724); approved for food use as acidity regulator/buffer/preservative (no dosage limit, GMP).
 - **International:** Complies with Codex Alimentarius Commission (CAC) standards; FCC/USP certified (food grade); recognized as a non-hazardous food additive worldwide.
- 15.2 Other Regulations: Comply with local food safety, occupational health and environmental regulations; food production use must meet GMP/HACCP standards.

SECTION 16: Other Information

- **Further Information:** This MSDS is for **Food Grade Sodium Acetate ($\geq 99.0\%$)** (CAS 127-09-3), compliant with GB/T 16483, GB/T 17519 and GHS Rev.9. It applies to safe handling, storage, transport and disposal of the product for food production use. The supplier is not liable for damage caused by improper use (e.g., exposure to excessive moisture, contact with strong acids) or non-compliance with storage precautions.
- **Revision Date:** 29 FEB 2026
- **Version:** V1.0