



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)

Product Name: Aspirin **Revision Date: 18 FEB 2026**

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

1.1 Product Identifiers

- Product Name: Aspirin
- Product Number: AS-20260218
- Brand: SIGALD
- CAS-No.: 50-78-2
- Synonyms: Acetylsalicylic acid; 2-(Acetyloxy)benzoic acid

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: Pharmaceutical intermediate for antipyretic, analgesic and anti-inflammatory drugs; raw material for oral, topical pharmaceutical formulations; veterinary drug raw material for animal fever and pain relief; research reagent for pharmaceutical R&D.
- Uses Advised Against: Not for direct human consumption in raw form; no unapproved industrial use; avoid excessive contact in cosmetic formulation without professional formulation design.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Acute toxicity, oral (Category 4); Skin irritation (Category 2); Serious eye irritation (Category 2); Specific target organ toxicity - single exposure (Gastrointestinal tract, Category 3)

2.2 GHS Label Elements

- Hazard Pictogram: (Exclamation mark)
- Signal Word: **Warning**
- Hazard Statements:
 - H302: Harmful if swallowed in large amounts
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - H335: May cause respiratory irritation
- Precautionary Statements:
 - P264: Wash skin thoroughly after handling
 - P270: Do not eat, drink or smoke when using this product

- P280: Wear protective gloves/eye protection/face protection
- P301+P312: If swallowed: Call a POISON CENTER or doctor if you feel unwell
- P302+P352: If on skin: Wash with plenty of water and soap
- P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P330: Rinse mouth
- P332+P313: If skin irritation occurs: Get medical advice/attention
- P337+P313: If eye irritation persists: Get medical advice/attention
- P362: Take off contaminated clothing and wash before reuse

2.3 Physical and Chemical Hazards

- Non-combustible; no explosive/oxidizing properties under normal storage and handling conditions. No hazardous polymerization will occur.

2.4 Health Hazards

- Acute: Large amount swallowing causes nausea, abdominal pain, gastric irritation and gastrointestinal bleeding; skin contact leads to mild redness, itching and rash; eye contact causes severe conjunctival redness, tearing and corneal irritation; dust inhalation may cause cough, throat dryness and discomfort.
- Chronic: Long-term excessive exposure may cause mild gastric mucosal damage and tinnitus in sensitive individuals.

2.5 Environmental Hazards

- Not classified as a hazardous environmental substance; low acute toxicity to aquatic organisms (96h LC₅₀ > 500 mg/L for zebrafish); low bioaccumulation potential, biodegradable in natural environment.

2.6 Other Hazards

- No additional hazards identified under normal use conditions.

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: **Pure Substance**
- Active Ingredient: Aspirin (100%)
- CAS-No.: 50-78-2
- EC-No.: N/A
- Hazardous components: 100% (Aspirin, GHS Category 4/2/2/3)

SECTION 4: First Aid Measures

4.1 Description of First-Aid Measures

- If Inhaled: Move the victim to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth and throat with water; call a doctor if cough or irritation persists for a long time.
- In Case of Skin Contact: Immediately remove all contaminated clothing and shoes. Rinse skin with plenty of running water and mild soap for 10-15 minutes. If irritation or rash occurs, apply mild emollient and seek medical advice.
- In Case of Eye Contact: Hold eyelids open and rinse thoroughly with plenty of running water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek **immediate** medical advice even if irritation is mild.



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>

- If Swallowed: Do not induce vomiting, especially if the victim is unconscious. Rinse mouth with water. Give a small amount of water to drink if the victim is conscious and alert. Call a poison center or doctor immediately for large amount swallowing.
- 4.2 Most Important Symptoms and Effects
- Acute: Gastrointestinal discomfort, nausea, vomiting, gastric bleeding (large dose); skin redness, pruritus; eye redness, tearing; respiratory tract irritation, cough.
- Delayed: Tinnitus, dizziness may occur 2-4 hours after excessive ingestion; gastric pain may worsen in a short time.
- 4.3 Indication of Immediate Medical Attention
- Seek urgent medical help if large amounts are swallowed, eye contact causes persistent vision blurring, skin contact leads to severe rash, or inhalation causes difficulty breathing.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- Suitable Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), dry chemical powder.
- Unsuitable Extinguishing Media: No limitations of extinguishing agents.
- 5.2 Special Hazards Arising from the Substance
- Non-combustible; slight decomposition at high temperature (>200°C) produces acetic acid and salicylic acid fumes, no toxic or explosive gases released.
- No explosion risk under normal fire conditions.
- 5.3 Advice for Firefighters
- Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective gear only if large-scale combustion and decomposition fumes occur.
- Keep a safe distance; prevent fire-extinguishing water from entering municipal sewers or natural water bodies (minimal aquatic impact).

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

- Wear N95 dust mask, nitrile protective gloves, chemical splash goggles and disposable lab coat. Ensure good ventilation at the spill site and evacuate non-essential personnel.

6.2 Environmental Precautions

- Prevent spilled powder from entering sewers, rivers, lakes or soil. Cover the spill with inert material to avoid dust spreading.
- 6.3 Methods and Materials for Containment and Cleaning Up
- Small Spill: Gently sweep up with a clean dry brush, collect into a sealed plastic container for professional disposal. Do not blow or vacuum the powder to avoid dust inhalation.
- Large Spill: Contain the spill with sand/vermiculite, transfer to a sealed HDPE drum with a label, and hand over to a licensed hazardous waste treatment company. Do not wash the spill into drains.
- 6.4 Reference to Other Sections
For waste disposal, see Section 13.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Operate in a well-ventilated dust-free area or fume hood; use dust-free operation tools to avoid generating dust during weighing and mixing.



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>

- Wear the specified personal protective equipment (PPE) for all handling operations.
- Do not eat, drink or smoke in the work area; wash hands and face thoroughly with soap and water after handling.
- Avoid contact with strong acids, strong bases, oxidizing agents and high-temperature environments to prevent decomposition.
- Storage Conditions: Store in a cool, dry, dark and well-ventilated pharmaceutical warehouse. Temperature $\leq 25^{\circ}\text{C}$, relative humidity $\leq 60\%$. Keep the container tightly sealed to prevent hygroscopy, hydrolysis and contamination.
- Incompatibilities: Strong acids (HCl , H_2SO_4), strong bases (NaOH , KOH), oxidizing agents (H_2O_2 , KMnO_4), heavy metal salts, moisture.
- Storage Class (TRGS 510): 10 (Non-Hazardous Solids with irritant properties)
- Shelf Life: 36 months (unopened, under the specified storage conditions).
- Segregation: Store separately from food, feed, cosmetic raw materials and other pharmaceutical intermediates with different properties.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

- Occupational Exposure Limit (OEL): No official national/international OEL; internal control limit: 1.0 mg/m^3 (8-hour TWA, dust).
- Biological Limit Value (BLV): N/A.
- 8.2 Exposure Controls
- Engineering Controls: Local exhaust ventilation (LEV) for dust-generating operations; install a dust collection and filtration system to reduce air dust concentration (emission concentration $\leq 0.5 \text{ mg/m}^3$).
- Personal Protective Equipment (PPE):
 - Eye/Face Protection: Chemical splash goggles (routine handling); goggles + face shield (large-scale weighing/mixing).
 - Skin Protection: Nitrile rubber gloves (thickness $\geq 0.18 \text{ mm}$), impermeable lab coat, protective shoe covers.
 - Respiratory Protection: N95 dust mask for routine operations; powered air-purifying respirator (PAPR) for high-dust operations.
 - Hand Protection: Replace gloves immediately if damaged, punctured or contaminated.

SECTION 9: Physical and Chemical Properties

9.1 Basic Physical and Chemical Properties

a) Physical State: Solid (white crystalline powder/crystals)

b) Color: White to off-white

c) Odor: Odorless or slightly acetic

d) Melting Point/Freezing Point: $135\text{-}138^{\circ}\text{C}$ (melting with slight decomposition)

e) Boiling Point: Not applicable (decomposes before boiling)

f) Flammability: Non-combustible

g) Flammability Limits: Not applicable

h) Flash Point: Not applicable

i) Autoignition Temperature: $> 450^{\circ}\text{C}$

j) Decomposition Temperature: $\geq 200^{\circ}\text{C}$ (decomposes into salicylic acid and acetic acid)

k) pH Value: 2.5-3.5 (1% aqueous suspension, 25°C)

l) Viscosity: Not applicable (solid)

m) Water

Solubility: Slightly soluble in water (≈ 3 g/L, 25°C); freely soluble in ethanol, ether, chloroform; soluble in hot water) Partition Coefficient (log P, n-octanol/water): 1.2 (25°C) Vapor Pressure (25°C): < 0.0001 hPap) Density (25°C): 1.35-1.39 g/cm³ (bulk density) Particle Size: 95% passing 80 meshr) Explosive Properties: Not explosives) Oxidizing Properties: Nonet) Hygroscopy: Slightly hygroscopic, easy to hydrolyze in moist air

SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under the recommended storage conditions ($\leq 25^\circ\text{C}$, dry, sealed); stable in dry air, slow hydrolysis in moist air to produce salicylic acid and acetic acid. 10.2 Possibility of Hazardous Reactions: No hazardous reactions under normal use and processing conditions; no decomposition under standard pharmaceutical processing temperature ($\leq 60^\circ\text{C}$). 10.3 Conditions to Avoid: High temperature ($> 200^\circ\text{C}$), direct sunlight, high humidity, contact with incompatible materials, strong mechanical shock, long-term contact with moisture. 10.4 Incompatible Materials: Strong acids, strong bases, oxidizing agents, heavy metal salts, moisture, alkaline pharmaceutical excipients. 10.5 Hazardous Decomposition Products: Carbon dioxide, water vapor, acetic acid fumes, salicylic acid fumes (at high temperature complete combustion/decomposition); no toxic decomposition products.

SECTION 11: Toxicological Information

11.1 Toxicological Effects

- Acute Toxicity:
 - Oral (Rat, LD₅₀): 1500 mg/kg (harmful in large amounts)
 - Dermal (Rabbit, LD₅₀): > 2000 mg/kg (low dermal toxicity)
 - Inhalation (Rat, LC₅₀): > 10 mg/m³ (4-hour exposure, low inhalation toxicity)
- Skin Corrosion/Irritation: Rabbit 4-hour closed patch test - mild redness and edema (Category 2), reversible within 72 hours.
- Eye Irritation: Rabbit eye test - severe conjunctival redness and corneal opacity (Category 2), reversible with treatment within 48 hours.
- Respiratory Irritation: Rat inhalation test - mild respiratory tract irritation at high dust concentrations (≥ 5 mg/m³).
- Mutagenicity: Ames test, chromosome aberration test - negative; no mutagenic effects.
- Carcinogenicity: IARC Classification - Group 3 (not classifiable as to carcinogenicity to humans).
- Reproductive Toxicity: No adverse reproductive effects in animal tests at low doses (≤ 100 mg/kg); high doses may cause mild fetal developmental retardation in animals.
- Specific Target Organ Toxicity: Gastrointestinal tract is the main target organ; high dose causes gastric mucosal damage.

SECTION 12: Ecological Information

12.1 Toxicity

- Fish (Zebrafish, 96h LC₅₀): 520 mg/L

- Daphnia (48h EC₅₀): 480 mg/L
- Freshwater Algae (72h EC₅₀): 550 mg/L
- 1.2 Persistence and Degradability: Biodegradable (BOD₅/COD = 0.70); degraded by microorganisms in aquatic and soil environments within 14-21 days, no persistent residues.
- 1.2.3 Bioaccumulative Potential: Low (log P = 1.2); no significant bioaccumulation in aquatic organisms and food chain.
- 1.2.4 Mobility in Soil: Low mobility; adsorbs to soil organic matter (K_{oc} = 350), no leaching risk to groundwater.
- 1.2.5 PBT/vPvB Assessment: Not classified as PBT/vPvB substances.
- 1.2.6 Other Adverse Effects: No known adverse effects on soil microorganisms and terrestrial plants at low concentrations; high concentration may cause mild inhibition of aquatic algae growth.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- Product Waste: Contaminated/expired product is classified as hazardous waste; must be disposed of by licensed hazardous waste treatment facilities via incineration (combustion products are non-toxic CO₂ and H₂O).
- Packaging Waste: Rinse packaging with ethanol and water to remove residual powder, then dispose of as hazardous waste; do not recycle or reuse contaminated packaging.
- Unused Product: Do not discharge to the environment; incinerate with professional waste treatment companies in accordance with local national and international regulations.
- Disposal Compliance: Comply with national and local hazardous waste disposal regulations (e.g., China HW02, EU EWC 080105).

SECTION 14: Transport Information

14.1 UN Number: ADR/RID: 3077; IMDG: 3077; IATA-DGR: 3077
14.2 UN Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Aspirin)
14.3 Transport Hazard Class: 9 (Miscellaneous hazardous substances and articles)
14.4 Packaging Group: III (Minor hazard)
14.5 Environmental Hazards: IMDG Marine Pollutant: **No**
14.6 Special Precautions for Transport

- Transport in sealed HDPE pharmaceutical-grade drums with inner plastic lining or aluminum foil vacuum bags; affix standard Class 9 hazard labels and product identification labels.
- Transport temperature ≤ 30°C; avoid direct sunlight, rain, collision, extrusion and rough handling during transport.
- Do not transport with food, feed, cosmetics, aquatic products and oral pharmaceutical finished products.
- Comply with ADR/RID, IMDG Code and IATA-DGR transport regulations for Class 9 hazardous substances; transport by specialized hazardous chemical vehicles for bulk shipment.

SECTION 15: Regulatory Information

15.1 National/International Regulations

- China: Hazardous Chemicals Safety Management Regulation (Class 9 hazardous chemical); Pharmaceutical Raw Material Registration Requirements for medical intermediates; Chinese Pharmacopoeia (CP) 2025 edition compliance.

- EU: REACH (Annex XVII compliant; not in SVHC Candidate List); CLP (GHS classification as Warning); European Pharmacopoeia (EP) 10.0 compliance; IMDG Code (Class 9).
 - US: TSCA (listed on the TSCA Inventory); DOT (Class 9 hazardous material); FDA (compliant with pharmaceutical intermediate quality standards); United States Pharmacopeia (USP) 47 compliance.
 - Japan: JP 17 compliance; Japanese Pharmaceutical Affairs Law.
 - Other: Comply with local pharmaceutical raw material import/export registration and hazardous chemical transport regulations of the destination country.
- ### 15.2 Additional Regulatory Requirements
- Provide English MSDS and COA for customs clearance; apply for a hazardous chemical transport document for bulk shipment; provide product quality test reports and pharmacopoeia compliance certificates for pharmaceutical production use.

SECTION 16: Other Information

- Further Information: This MSDS is based on current scientific and regulatory knowledge, complying with GB/T 16483, GB/T 17519 and GHS Rev.9 standards. It is for occupational health and safety use only for professional operators and transport personnel.
- Revision Date: 18 FEB 2026
- Disclaimer: The supplier is not liable for any damage caused by improper use, storage, transport or disposal of this product beyond the scope of the specified standards and national/international regulations.