



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
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Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

Product Name: Naproxen Sodium Revision Date: 28 FEB 2026

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

1.1 Product Identifiers

- Product Name: Naproxen Sodium
- Product Number: NS-20260228
- Brand: SIGALD
- CAS-No.: 26159-34-2
- Synonyms: Sodium (S)-6-methoxy-a-methyl-2-naphthaleneacetate; Naproxen Na salt

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 anti-inflammatory, analgesic and antipyretic drugs; raw material for oral, topical and injectable pharmaceutical formulations; veterinary drug raw material for animal anti-inflammatory treatment.
- Uses Advised Against: Not for direct human consumption; no non-pharmaceutical industrial use; avoid use in food/cosmetic products.

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
 - 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.
- Acute: Swallowing causes nausea, abdominal pain and gastrointestinal irritation; skin contact leads to mild redness, itching and rash; eye contact causes severe conjunctival redness, tearing and blurred vision; dust inhalation may cause cough and throat discomfort.
- Chronic: No known chronic health hazards with proper occupational exposure control.

2.5 Environmental Hazards

- Not classified as a hazardous environmental substance; low acute toxicity to aquatic organisms (96h LC₅₀ > 400 mg/L for zebrafish); low bioaccumulation potential.
- No additional hazards identified.

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: **Pure Substance**
- Active Ingredient: Naproxen Sodium (100%)
- CAS-No.: 26159-34-2
- EC-No.: N/A
- Hazardous components: 100% (Naproxen Sodium, 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. If cough or irritation persists, call a doctor.
- 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, 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.

- If Swallowed: Do not induce vomiting. Rinse mouth with water. Do not give anything by mouth to an unconscious person. Call a poison center or doctor immediately.
- 4.2 Most Important Symptoms and Effects
- Acute: Gastrointestinal discomfort, nausea (swallowed); skin redness, pruritus (skin contact); severe eye irritation, lacrimation (eye contact); respiratory tract irritation, cough (inhalation).
- Delayed: No known delayed toxic effects within 48 hours of exposure.
- 4.3 Indication of Immediate Medical Attention
- Seek urgent medical help if large amounts are swallowed, eye contact causes persistent vision problems, or skin/respiratory irritation worsens.

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; no hazardous gases released under normal fire conditions; slight decomposition at high temperature with no toxic byproducts.
- 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 occurs.
- 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 with inert material if necessary to avoid environmental contamination.
- ### 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; avoid generating and inhaling dust during weighing and mixing.

- 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 and contamination.
- Incompatibilities: Strong acids (HCl , H_2SO_4), strong bases (NaOH , KOH), oxidizing agents (H_2O_2 , KMnO_4), heavy metal salts, strong reducing agents.
- 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: 0.5 mg/m^3 (8-hour TWA).
- 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.
- 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)

b) Color: White to off-white

c) Odor: Practically odorless

d) Melting Point/Freezing Point: $154\text{-}158^{\circ}\text{C}$ (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: $\geq 150^{\circ}\text{C}$ (no hazardous decomposition products)

k) pH Value: 7.5-9.0 (1% aqueous solution, 25°C)

l) Viscosity: Not applicable (solid)

m) Water Solubility: Freely soluble in water ($\approx 55 \text{ g/L}$, 25°C); soluble in ethanol, methanol; slightly soluble in acetone, chloroform

n) Partition Coefficient (log P, n-



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octanol/water): 2.80) Vapor Pressure (25°C): < 0.0001 hPap) Density (25°C): 1.38-1.42 g/cm³
(bulk density)q) Particle Size: 95% passing 80 meshr) Explosive Properties: Not explosives)
Oxidizing Properties: Nonet) Hygroscopy: Slightly hygroscopic

SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under the recommended storage and handling conditions (≤25°C, dry, sealed).10.2 Possibility of Hazardous Reactions: No hazardous reactions under normal use; no decomposition or toxic byproduct release under standard pharmaceutical processing conditions.10.3 Conditions to Avoid: High temperature (>150°C), direct sunlight, high humidity, contact with incompatible materials, strong mechanical shock.10.4 Incompatible Materials: Strong acids, strong bases, oxidizing agents, heavy metal salts, strong reducing agents, acidic/basic pharmaceutical excipients.10.5 Hazardous Decomposition Products: No hazardous decomposition products; only carbon dioxide and water vapor at high temperature complete combustion.

SECTION 11: Toxicological Information

11.1 Toxicological Effects

- Acute Toxicity:
 - Oral (Rat, LD₅₀): 1150 mg/kg (harmful)
 - 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.
- Respiratory Irritation: Rat inhalation test - mild respiratory tract irritation at high dust concentrations.
- 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).

SECTION 12: Ecological Information

12.1 Toxicity

- Fish (Zebrafish, 96h LC₅₀): 420 mg/L
 - Daphnia (48h EC₅₀): 390 mg/L
 - Freshwater Algae (72h EC₅₀): 460 mg/L
- 12.2 Persistence and Degradability: Biodegradable (BOD₅/COD = 0.65); degraded by microorganisms in aquatic and soil environments within 21 days.12.3 Bioaccumulative Potential: Low (log P = 2.8); no significant bioaccumulation in aquatic organisms.12.4 Mobility in Soil: Low mobility; adsorbs to soil organic matter (Koc =

680).12.5 PBT/vPvB Assessment: Not classified as PBT/vPvB substances.12.6 Other Adverse Effects: No known adverse effects on soil microorganisms and terrestrial plants at low concentrations.

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 (no toxic flue gas generated).
- Packaging Waste: Rinse packaging with ethanol and water, 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 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. (Naproxen Sodium)
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; affix standard Class 9 hazard labels.
- Transport temperature $\leq 30^{\circ}\text{C}$; avoid direct sunlight, rain, collision, extrusion and rough handling during transport.
- Do not transport with food, feed, cosmetics, aquatic products and oral pharmaceutical raw materials.
- Comply with ADR/RID, IMDG Code and IATA-DGR transport regulations for Class 9 hazardous substances.

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.
 - EU: REACH (Annex XVII compliant; not in SVHC Candidate List); CLP (GHS classification as Warning); IMDG Code (Class 9).
 - US: TSCA (listed on the TSCA Inventory); DOT (Class 9 hazardous material); FDA (compliant with pharmaceutical intermediate quality standards).
 - Other: Comply with local pharmaceutical raw material import/export registration and hazardous chemical transport regulations.
- #### 15.2 Additional Regulatory Requirements



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- Provide MSDS and COA for customs clearance; apply for a hazardous chemical transport document for bulk shipment; provide product quality test reports 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.
- Revision Date: 28 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.

