



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: Diclofenac Resinate **Revision Date: 20 FEB 2026**

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

1.1 Product Identifiers

- Product Name: Diclofenac Resinate
- Product Number: DR-20260220
- Brand: SIGALD
- CAS-No.: 57469-78-0
- Synonyms: Diclofenac Resinate Salt; 2-[(2,6-Dichlorophenyl)amino]benzeneacetic acid resinate

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 sustained-release pharmaceutical formulations.
- Uses Advised Against: Not for direct human consumption; no industrial non-pharmaceutical use; avoid use in cosmetic/food products.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Acute toxicity, oral (Category 4); Skin irritation (Category 2); 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



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- 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
- 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 conditions.

2.4 Health Hazards

- Acute: Swallowing causes gastrointestinal irritation; skin/eye contact leads to local irritation; dust inhalation may cause respiratory tract discomfort.
- Chronic: No known chronic health hazards with proper occupational exposure.

2.5 Environmental Hazards

- Not classified as environmentally hazardous; low bioaccumulation potential; slightly toxic to aquatic organisms (LC₅₀ > 100 mg/L for fish).

2.6 Other Hazards

- No additional hazards identified.

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: **Pure Substance**
- Active Ingredient: Diclofenac Resinate (100%)
- CAS-No.: 57469-78-0
- EC-No.: N/A
- Hazardous components: 100% (Diclofenac Resinate, GHS Category 4/2/2/3)

SECTION 4: First Aid Measures

4.1 Description of First-Aid Measures

- If Inhaled: Move victim to fresh air. Keep calm. If coughing/irritation persists, call a doctor.
- In Case of Skin Contact: Remove contaminated clothing. Rinse skin with plenty of running water for 10-15 minutes. If irritation occurs, seek medical advice.
- In Case of Eye Contact: Rinse eyes thoroughly with plenty of running water for 15 minutes, holding eyelids open. Remove contact lenses if present. 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: Nausea, abdominal pain (swallowed); redness, itching, rash (skin contact); eye redness, tearing, blurred vision (eye contact); cough, sore throat (inhalation).



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- Delayed: No known delayed effects within 48 hours of exposure.

4.3 Indication of Immediate Medical Attention

- Seek medical help if swallowing large amounts, or if skin/eye/respiratory irritation persists for more than 1 hour.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- Suitable: Water spray, foam, carbon dioxide (CO₂), dry powder.
- Unsuitable: No limitations of extinguishing agents.

5.2 Special Hazards Arising from the Substance

- No hazardous combustion gases; only carbon dioxide, water vapor and small amounts of hydrogen chloride gas (under high-temperature incomplete combustion).

5.3 Advice for Firefighters

- Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective gear if smoke/hazardous gases are generated.
- Prevent fire water from entering water sources/soil (slight aquatic toxicity).

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

- Wear N95 dust mask, nitrile protective gloves and safety goggles. Ensure good ventilation at the spill site. Evacuate non-essential personnel.

6.2 Environmental Precautions

- Prevent spilled powder from entering sewers, rivers or soil. Cover with inert material if necessary to avoid environmental contamination.

6.3 Methods and Materials for Containment and Cleaning Up

- Small Spill: Sweep up with a clean dry brush, collect into a sealed plastic container for disposal.
- Large Spill: Contain with sand/vermiculite, transfer to a sealed HDPE drum for professional disposal. Do not wash spill into drains.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Operate in a well-ventilated fume hood/dust-free area. Avoid dust generation/inhaling.
- Wear personal protective equipment (PPE) during all handling operations.
- Do not eat, drink or smoke in the work area. Wash hands thoroughly after handling.
- Avoid contact with strong acids, strong bases and oxidizing agents.

7.2 Conditions for Safe Storage

- Storage Conditions: Store in a cool, dry, dark and well-ventilated warehouse. Temperature ≤ 25°C, relative humidity ≤ 60%. Keep container tightly sealed.
- Incompatibilities: Strong acids (HCl, H₂SO₄), strong bases (NaOH, KOH), oxidizing agents (H₂O₂, KMnO₄), heavy metal salts.
- Storage Class (TRGS 510): 10 (Non-Hazardous Solids, with irritant properties)



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- Shelf Life: 36 months (unopened, under specified storage conditions).
- Segregation: Store separately from food, feed and cosmetic raw materials.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

- Occupational Exposure Limit (OEL): No official national/international OEL; set internal limit: 1 mg/m³ (8-hour TWA).
- Biological Limit Value (BLV): N/A.

8.2 Exposure Controls

- Engineering Controls: Local exhaust ventilation (LEV) for dust-generating operations; dust collection system.
- Personal Protective Equipment (PPE):
 - Eye/Face Protection: Chemical splash goggles + face shield (for large-scale handling).
 - Skin Protection: Nitrile rubber gloves (thickness ≥ 0.18 mm), impermeable lab coat, protective boots.
 - Respiratory Protection: N95 dust mask for routine handling; powered air-purifying respirator (PAPR) for high-dust operations.
 - Hand Protection: Replace gloves if damaged/contaminated.

SECTION 9: Physical and Chemical Properties

9.1 Basic Physical and Chemical Properties
a) Physical State: Solid (fine crystalline powder)
b) Color: White to off-white
c) Odor: Odorless
d) Melting Point/Freezing Point: 185-190°C (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: $\geq 180^{\circ}\text{C}$ (releases small amounts of HCl)
k) pH Value: 5.0-7.0 (1% suspension in water, 25°C)
l) Viscosity: Not applicable (solid)
m) Water Solubility: Slightly soluble in water; soluble in ethanol/acetone; freely soluble in dimethyl sulfoxide (DMSO)
n) Partition Coefficient (log P, n-octanol/water): 4.2
o) Vapor Pressure (25°C): < 0.0001 hPa
p) Density (25°C): 1.35-1.40 g/cm³ (bulk density)
q) Particle Size: 95% passing 100 mesh
r) Explosive Properties: Not explosives
s) Oxidizing Properties: None
t) Hygroscopy: Slightly hygroscopic

SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under recommended storage/handling conditions ($\leq 25^{\circ}\text{C}$, dry, sealed).
10.2 Possibility of Hazardous Reactions: No hazardous reactions under normal use; decomposition at high temperature ($>180^{\circ}\text{C}$) releases HCl gas.
10.3 Conditions to Avoid: High temperature ($>180^{\circ}\text{C}$), direct sunlight, high humidity, contact with incompatible materials.
10.4 Incompatible Materials: Strong acids/bases, oxidizing agents, heavy metal salts, strong reducing agents.
10.5 Hazardous Decomposition Products: Carbon dioxide, water vapor, hydrogen chloride (HCl), 2,6-dichloroaniline (trace).

SECTION 11: Toxicological Information

11.1 Toxicological Effects

- Acute Toxicity:
 - Oral (Rat, LD₅₀): 1250 mg/kg (harmful)
 - Dermal (Rabbit, LD₅₀): > 2000 mg/kg (non-toxic via dermal)
 - Inhalation (Rat, LC₅₀): > 5 mg/m³ (4-hour exposure, low inhalation toxicity)
- Skin Corrosion/Irritation: Rabbit, 4-hour exposure - mild redness/edema (Category 2).
- Eye Irritation: Rabbit, 24-hour exposure - moderate redness/tearing (Category 2, reversible within 72h).
- Respiratory Irritation: Rat inhalation test - mild respiratory tract irritation at high concentrations.
- Mutagenicity: Ames 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.
- Target Organ Toxicity: Single exposure - gastrointestinal tract, skin, eyes, respiratory tract.

SECTION 12: Ecological Information

12.1 Toxicity

- Fish (Zebrafish, 96h LC₅₀): 150 mg/L
- Daphnia (48h EC₅₀): 120 mg/L
- Algae (72h EC₅₀): 200 mg/L
- 12.2 Persistence and Degradability: Biodegradable (BOD₅ /COD = 0.55); degraded by microorganisms in 28 days.
- 12.3 Bioaccumulative Potential: Low (log P = 4.2, no significant bioaccumulation in aquatic organisms).
- 12.4 Mobility in Soil: Low mobility; adsorbs to soil organic matter (Koc = 850).
- 12.5 PBT/vPvB Assessment: Not classified as PBT/vPvB.
- 12.6 Other Adverse Effects: No known adverse effects on soil microorganisms/plants at low concentrations.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- Product Waste: Contaminated/spoiled product must be disposed of as hazardous waste via licensed waste treatment facilities. Incineration with acid gas scrubbing (for HCl removal).
- Packaging Waste: Rinse packaging with ethanol, then dispose of as hazardous waste; do not recycle.
- Unused Product: Do not discharge to the environment; incinerate with professional waste treatment companies.
- Disposal Compliance: Comply with local/national 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. (Diclofenac Resinate)
- 14.3 Transport Hazard

Class: 9 (Miscellaneous hazardous substances)14.4 Packaging Group: III (Minor hazard)14.5 Environmental Hazards: IMDG Marine Pollutant: **Yes (P)**14.6 Special Precautions for Transport

- Transport in sealed HDPE drums with inner plastic lining; mark with hazard labels (Class 9, Marine Pollutant).
- Transport temperature $\leq 30^{\circ}\text{C}$; avoid direct sunlight, rain, collision and rough handling.
- Do not transport with food, feed, cosmetics or aquatic products.
- Comply with ADR/RID, IMDG Code and IATA-DGR regulations.

SECTION 15: Regulatory Information

15.1 National/International Regulations

- China: Hazardous Chemicals Safety Management Regulation (Class 9 hazardous chemical); Pharmaceutical Raw Material Registration Requirements.
- EU: REACH (Annex XVII compliant; not in SVHC Candidate List); CLP (GHS classification as Warning); IMDG Code (Class 9).
- US: TSCA (listed on TSCA Inventory); DOT (Class 9 hazardous material); FDA (pharmaceutical intermediate compliance).
- Other: Comply with local pharmaceutical raw material import/export registration and hazardous chemical transport regulations.

15.2 Additional Regulatory Requirements

- Provide MSDS/COA for customs clearance; apply for hazardous chemical transport document for bulk shipment.

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. It is for occupational health and safety use only.
- Revision Date: 20 FEB 2026
- Disclaimer: The supplier is not liable for damage caused by improper use, storage or disposal of this product.