



# 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)

**Product Name:** Nandrolone Phenylpropionate

**Product Number:** NPP-20260210

**Brand:** SIGALD

**CAS Number:** 62-90-8

**Revision Date:** 10 FEB 2026

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

#### 1.1 Product Identifiers

- Product Name: Nandrolone Phenylpropionate
- Synonyms: 19-Nortestosterone 17 $\beta$ -phenylpropionate; NPP
- CAS-No.: 62-90-8
- Molecular Formula: C<sub>27</sub> H<sub>34</sub>O<sub>3</sub>
- Molecular Weight: 406.56 g/mol

#### 1.2 Details of the supplier

- 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 Identified Uses and Uses Advised Against

- Identified Uses: Pharmaceutical raw material for injectable formulations, research reagent, fine chemical intermediate.
- Uses Advised Against: Not for oral consumption; not for unauthorized human/veterinary use; not for cosmetic use; not for release to the environment.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Acute toxicity (oral, rat): Category 4 (LD<sub>50</sub> = 2000 mg/kg)
- Reproductive toxicity: Category 1B
- Target organ toxicity (repeated exposure): Category 2 (endocrine system, liver)
- Hazard to the aquatic environment (long-term): Category 3

#### 2.2 GHS Label Elements

- Hazard Pictograms: GHS07 (Exclamation mark), GHS08 (Health hazard), GHS09 (Environment)
- Signal Word: Danger
- Hazard Statements:
  - H302: Harmful if swallowed
  - H360: May damage fertility or the unborn child



# 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>

- H373: May cause damage to organs (endocrine system, liver) through prolonged or repeated exposure
- H412: Harmful to aquatic life with long lasting effects
- Precautionary Statements:
  - P201: Obtain special instructions before use
  - P202: Do not handle until all safety precautions have been read and understood
  - P264: Wash skin thoroughly after handling
  - P270: Do not eat, drink or smoke when using this product
  - P273: Avoid release to the environment
  - P280: Wear protective gloves/eye protection/face protection
  - P301+P312: If swallowed: Call a POISON CENTER/doctor if you feel unwell
  - P308+P313: If exposed or concerned: Get medical advice/attention
  - P391: Collect spillage
  - P405: Store locked up
  - P501: Dispose of contents/container to an approved waste disposal plant

**2.3 Physical and Chemical Hazards:** No physical/chemical hazards under normal use;

combustible at high temperature.**2.4 Health Hazards:** Harmful if swallowed; reproductive toxicant; may cause liver/endocrine system damage with prolonged exposure; no skin/eye irritation.

**2.5 Environmental Hazards:** Harmful to aquatic life with long-lasting effects; low biodegradability.**2.6 Other Hazards:** No additional hazards identified.

## SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure Substance
- Active Ingredient: Nandrolone Phenylpropionate (100%, CAS:62-90-8)
- No hazardous impurities present above regulatory limit values.

## SECTION 4: First Aid Measures

### 4.1 First-Aid Measures

- If Inhaled: Move victim to fresh air. If respiratory distress occurs, give oxygen and call a POISON CENTER/doctor.
- In Case of Skin Contact: Wash skin with plenty of soap and water. Remove contaminated clothing and wash before reuse. No further treatment if no irritation.
- In Case of Eye Contact: Rinse eyes thoroughly with plenty of water for 15 minutes, lifting eyelids occasionally. Call a doctor if irritation persists.
- If Swallowed: Do not induce vomiting. Rinse mouth with water. Call a POISON CENTER/doctor immediately and provide MSDS/COA.

**4.2 Key Symptoms:** Nausea, vomiting, abdominal pain (acute ingestion); liver enzyme elevation, hormonal imbalance, reproductive dysfunction (prolonged exposure).**4.3 Medical**

**Note:** Inform attending physician of the product name, CAS number and exposure route; provide a copy of this MSDS.

## SECTION 5: Firefighting Measures

5.1 **Extinguishing Media:** Suitable - Water spray, dry powder, foam, carbon dioxide (CO<sub>2</sub>).

Unsuitable - No limitations on extinguishing agents.5.2 **Special Hazards:** Combustible at high temperature (>300°C); burning produces toxic fumes (carbon monoxide, carbon dioxide, aromatic compounds).

5.3 **Firefighter Advice:** Wear self-contained breathing apparatus (SCBA) and full fire-fighting gear. Fight fire from a safe distance; prevent contaminated fire runoff from entering water sources/soil.

## SECTION 6: Accidental Release Measures

6.1 **Personal Precautions:** Wear protective gloves, dust mask, eye/face protection. Avoid dust inhalation, skin contact and dust formation. Ensure good ventilation.6.2 **Environmental**

**Precautions:** Strictly prevent spillage from entering sewers, rivers, lakes or soil. Contain all spillage to avoid environmental contamination.6.3 **Clean Up Methods:**

- Small Spill: Sweep up with dry, clean brush/spatula, collect in a sealed hazardous waste container.
- Large Spill: Contain with sand/dikes to prevent spread, avoid dust generation, transfer to sealed container by vacuum (HEPA filter) for disposal.6.4 **Reference:** See Section 13 for proper waste disposal.

## SECTION 7: Handling and Storage

### 7.1 Safe Handling Precautions:

- Handle in a well-ventilated area with dust extraction equipment; avoid dust formation and inhalation.
- Wear specified personal protective equipment (Section 8) during all handling operations.
- Do not eat, drink, smoke or apply cosmetics during handling; wash hands/face thoroughly after use.
- Do not mix with other chemicals unless directed by a qualified chemist.

### 7.2 Safe Storage Conditions:

- Store in a cool, dry, dark place at 2-8°C in a tightly sealed original container; short-term storage (≤3 months) at 15-25°C allowed.
- Keep away from heat, direct sunlight, open flame and oxidizing agents.
- Store locked up in a dedicated chemical storage area, separate from food, beverages, aquatic products and non-hazardous materials.
- Incompatibilities: Strong oxidizing agents, strong acids, strong alkalis, halogenated compounds.
- Shelf Life: 24 months (2-8°C, unopened); 12 months (15-25°C, unopened).

## SECTION 8: Exposure Controls/Personal Protection

8.1 **Control Parameters:** No official occupational exposure limits (OEL); establish internal workplace limit of 0.2 mg/m<sup>3</sup> (airborne dust).8.2 **Exposure Controls:**

- Engineering Controls: Local exhaust ventilation (LEV) for dust-generating processes; regular air quality monitoring.

- Personal Protective Equipment (PPE):
  - Eye/Face Protection: Chemical splash goggles and face shield
  - Skin Protection: Nitrile rubber gloves ( $\geq 0.3$  mm), impermeable protective clothing, lab coat
  - Respiratory Protection: N95 dust mask for routine handling; PAPR (powered air-purifying respirator) for large spills
  - Hand Protection: Replace gloves if torn, punctured or contaminated.

## SECTION 9: Physical and Chemical Properties

- Physical State: Crystalline powder
- Color: White to creamy white
- Odor: Faint, characteristic odor
- Melting Point: 93-99°C
- Boiling Point: Not applicable (decomposes before boiling)
- Flammability: Combustible at high temperature ( $>300^{\circ}\text{C}$ )
- Flash Point:  $>200^{\circ}\text{C}$  (Closed Cup)
- Autoignition Temperature:  $>350^{\circ}\text{C}$
- Solubility: Insoluble in water; soluble in chloroform, ethanol, DMSO; slightly soluble in vegetable oils (sesame/cottonseed oil)
- Density ( $20^{\circ}\text{C}$ ):  $1.12\text{ g/cm}^3$  (powder)
- Particle Size: 90% passing 80 mesh
- Optical Rotation:  $+48^{\circ}$  to  $+56^{\circ}$  ( $c=1$ ,  $\text{CHCl}_3$ ,  $25^{\circ}\text{C}$ )
- pH Value: Not applicable (insoluble in water)
- Vapor Pressure ( $25^{\circ}\text{C}$ ):  $<0.001$  hPa (negligible)

## SECTION 10: Stability and Reactivity

10.1 **Chemical Stability:** Stable under recommended storage conditions ( $2-8^{\circ}\text{C}$ , sealed, dark); decomposes at high temperature ( $>200^{\circ}\text{C}$ ) and strong light.

10.2 **Hazardous Reactions:** No hazardous reactions under normal use/handling; may react with strong oxidizing agents to produce toxic byproducts.

10.3 **Conditions to Avoid:** High temperature, direct sunlight, moisture, contact with strong oxidizing agents/acids/bases.

10.4 **Incompatible Materials:** Hydrogen peroxide, potassium permanganate, concentrated sulfuric acid, sodium hydroxide (concentrated), chlorine compounds.

10.5 **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, aromatic hydrocarbons (when burned); no toxic decomposition under normal storage.

## SECTION 11: Toxicological Information

### 11.1 Toxicological Effects

- Acute Toxicity: Oral (rat)  $\text{LD}_{50} = 2000\text{ mg/kg}$  (harmful); Dermal (rabbit)  $\text{LD}_{50} >5000\text{ mg/kg}$  (no acute dermal toxicity); Inhalation (rat)  $\text{LC}_{50} >10\text{ mg/m}^3$  (4h).
- Skin Corrosion/Irritation: No irritation (rabbit, 4h exposure).
- Eye Damage/Irritation: No irritation (rabbit, 24h exposure).



# 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>

- Reproductive Toxicity: Category 1B; animal studies show reduced fertility, birth defects and developmental abnormalities.
- Target Organ Toxicity (Repeated Exposure): Liver function abnormalities, endocrine system disruption, hormonal imbalance with prolonged exposure.
- Carcinogenicity: Not classified as carcinogenic by IARC/EPA/NTP.
- Mutagenicity: No mutagenic effects in standard in vitro/in vivo tests.

## SECTION 12: Ecological Information

12.1 **Toxicity:** Harmful to aquatic organisms; Zebrafish  $LC_{50}$  (96h) = 3.2 mg/L; Daphnia  $EC_{50}$  (48h) = 2.5 mg/L. 12.2 **Persistence and Degradability:** Low biodegradability ( $BOD_5 / COD < 0.2$ ); persists in aquatic/soil environments for >6 months. 12.3 **Bioaccumulative Potential:** High bioaccumulation factor ( $BCF > 1500$ ) in aquatic organisms; accumulates in fatty tissues. 12.4 **Mobility in Soil:** Low mobility; binds strongly to soil organic matter and sediment. 12.5 **PBT/vPvB Assessment:** Classified as vPvB (very persistent, very bioaccumulative) under GHS criteria. 12.6 **Other Adverse Effects:** Disrupts the endocrine system of aquatic vertebrates; may cause reproductive dysfunction in fish and amphibians.

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment

- Product Waste: Do not discharge to the environment. Dispose of all unused product to a licensed hazardous waste treatment facility in compliance with local/national/international regulations (e.g., China HW03, EU EWC 080105).
- Contaminated Packaging: Rinse empty packaging with a small amount of organic solvent, collect the rinse for hazardous waste disposal; dispose of the empty packaging as hazardous waste.
- Spillage Residue: Collect all contaminated material as hazardous waste; do not mix with non-hazardous waste or municipal waste. 13.2 **Disposal Notes:** Incineration must be carried out in a hazardous waste incinerator with a gas treatment system to remove toxic fumes; do not landfill untreated waste.

## SECTION 14: Transport Information

14.1 **UN Number:** UN 3077 (Environmentally hazardous substance, solid, n.o.s.) 14.2 **UN Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (Nandrolone Phenylpropionate) 14.3 **Transport Hazard Class:** 9 (Miscellaneous dangerous goods) 14.4 **Packaging Group:** III 14.5 **Environmental Hazards:** Marine Pollutant (Yes); ADR/RID/IMDG/IATA: Class 9, environmentally hazardous. 14.6 **Special Transport Precautions:**

- Transport in sealed original packaging, using refrigerated transport (2-8°C) for long-distance shipping.
- Avoid direct sunlight, high temperature, collision, rough handling and water exposure during transport.



## 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>

---

- Do not transport with food, beverages, aquatic products, medical supplies or non-hazardous goods.
- Accompany with complete transport documents indicating UN number, hazard class and emergency contact information.14.7 **IATA Restrictions:** Permitted for air transport (cargo only), limited quantity per package ( $\leq 5$  kg); no passenger aircraft transport.

### SECTION 15: Regulatory Information

#### 15.1 National Regulations (China):

- Hazardous Chemical Safety Management Regulation: Classified as Class 9 hazardous chemical
- Environmental Protection Law: Prohibited from discharge to water, soil and atmospheric environment
- Pharmaceutical Administration Law: Regulated as a pharmaceutical raw material, subject to special production/use licensing
- Occupational Disease Prevention and Control Law: Require workplace exposure monitoring and employee health checks

#### 15.2 International Regulations:

- GHS Classification (Rev.9): Acute toxicity 4, Reproductive toxicity 1B, Target organ toxicity 2, Aquatic chronic 3
- REACH (EU): Registered under REACH; listed in Annex XVII (reproductive toxicant restrictions)
- TSCA (US): Listed on the TSCA Inventory; subject to EPA hazardous waste and environmental regulations
- IMDG Code: Class 9, UN 3077, Marine Pollutant, Packaging Group III
- ADR/RID: Class 9, UN 3077, Environmentally hazardous substance

### SECTION 16: Other Information

- This MSDS is prepared in accordance with GB/T 16483, GB/T 17519 and GHS Revision 9, based on current scientific and regulatory data.
- The supplier assumes no liability for any damage, injury or environmental pollution caused by improper use, storage, transport or disposal of this product.
- This document is intended for professional use by trained personnel only; not for general consumer distribution or use.
- This is the first revision of this MSDS, issued on 10 FEB 2026; subject to update with new scientific/regulatory information.