



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, GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

Product Name: Stanozolol

Product Number: STZ-20260208

Brand: SIGALD

CAS Number: 10418-03-8

Revision Date: 08 FEB 2026

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

1.1 Product Identifiers

- Product Name: Stanozolol
- Synonyms: 17 α -Methyl-2'H-5 α -androst-2-eno[3,2-c]pyrazol-17 β -ol
- CAS-No.: 10418-03-8
- Molecular Formula: C₂₁H₃₂N₂O
- Molecular Weight: 332.49 g/mol

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- 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, research reagent, fine chemical intermediate.
- Uses Advised Against: Not for human oral consumption without pharmaceutical formulation; not for unauthorized veterinary use; not for cosmetic use.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Acute toxicity (oral, rat): Category 4 (LD₅₀ = 1500 mg/kg)
- Reproductive toxicity: Category 1B
- Target organ toxicity (repeated exposure): Category 2 (endocrine system)
- 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

- H373: May cause damage to organs (endocrine system) 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 or chemical hazards under normal use conditions.

2.4 Health Hazards: Harmful if swallowed; reproductive toxicant; may cause endocrine system damage with prolonged exposure; no skin/eye irritation reported.

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: Stanozolol (100%, CAS:10418-03-8)
- No hazardous impurities present above limit values.

SECTION 4: First Aid Measures

4.1 First-Aid Measures

- If Inhaled: Move victim to fresh air. If breathing is difficult, give oxygen. 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 special treatment required if no irritation.
- In Case of Eye Contact: Rinse eyes thoroughly with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a POISON CENTER/doctor if irritation develops.
- If Swallowed: Do not induce vomiting. Rinse mouth with water. Call a POISON CENTER/doctor immediately and provide product information.

4.2 Most Important Symptoms and Effects: Nausea, vomiting, abdominal pain (acute ingestion); reproductive dysfunction, endocrine disorders (prolonged exposure).

4.3 Immediate Medical

Attention: Required for ingestion, prolonged exposure or suspected reproductive harm; provide MSDS to attending physician.

SECTION 5: Firefighting Measures

5.1 **Extinguishing Media:** Suitable - Water spray, foam, dry powder, carbon dioxide (CO₂).

Unsuitable - No limitations.5.2 **Special Hazards Arising from the Substance:** Combustible at high temperature; burning may produce toxic fumes (nitrogen oxides, carbon monoxide).5.3

Advice for Firefighters: Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective gear. Fight fire from a safe distance; prevent fire runoff from entering water sources.

SECTION 6: Accidental Release Measures

6.1 **Personal Precautions:** Wear protective gloves, eye protection and dust mask. Avoid dust inhalation and skin contact. Ensure good ventilation.6.2 **Environmental Precautions:** Prevent spillage from entering sewers, water courses or soil. Contain and collect spillage to avoid environmental contamination.6.3 **Methods for Containment and Cleaning Up:**

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

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling:

- Handle in a well-ventilated area with dust extraction equipment.
- Wear appropriate personal protective equipment (PPE) as specified in Section 8.
- Avoid dust formation and inhalation; do not eat, drink or smoke during handling.
- Wash hands and face thoroughly after handling.

7.2 Conditions for Safe Storage:

- Store in a cool, dry, dark place at 2-8°C, in a tightly sealed original container.
- Keep away from heat, direct sunlight, open flame and oxidizing agents.
- Store locked up in a dedicated chemical storage area, separate from food, beverages and aquatic-related materials.
- Incompatibilities: Strong oxidizing agents, strong acids/bases.
- Shelf Life: 24 months (unopened, under specified storage conditions).

SECTION 8: Exposure Controls/Personal Protection

8.1 **Control Parameters:** No official occupational exposure limits (OEL) for Stanozolol; set internal limit of 0.1 mg/m³ (airborne dust).8.2 **Exposure Controls:**

- Engineering Controls: Local exhaust ventilation (LEV) for dust-generating operations; regular air monitoring.
- Personal Protective Equipment (PPE):
 - Eye/Face Protection: Chemical splash goggles and face shield
 - Skin Protection: Nitrile rubber gloves (thickness ≥0.3 mm), protective clothing, lab coat
 - Respiratory Protection: N95 dust mask for routine handling; powered air-purifying respirator (PAPR) for large spills/dust
 - Hand Protection: Nitrile rubber gloves, replace if damaged.

SECTION 9: Physical and Chemical Properties

- Physical State: Crystalline powder
- Color: White to off-white
- Odor: Odorless
- Melting Point: 240-246°C (decomposes)
- Boiling Point: Not applicable (decomposes before boiling)
- Flammability: Combustible at high temperature (>300°C)
- Flash Point: >200°C (Closed Cup)
- Autoignition Temperature: >350°C
- Solubility: Insoluble in water; soluble in chloroform, ethanol, dimethyl sulfoxide (DMSO); slightly soluble in vegetable oils
- Density (20°C): 1.15 g/cm³ (powder)
- Particle Size: 90% passing 100 mesh
- pH Value: Not applicable (insoluble in water)
- Optical Rotation: +34° to +40° (c=1, CHCl₃, 25°C)

SECTION 10: Stability and Reactivity

10.1 **Chemical Stability:** Stable under recommended storage conditions (2-8°C, sealed, dark); decomposes at high temperature (>240°C) and strong light.

10.2 **Possibility of 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: Strong oxidizing agents (e.g., hydrogen peroxide, potassium permanganate), strong mineral acids, strong alkalis.

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

SECTION 11: Toxicological Information

11.1 Toxicological Effects

- Acute Toxicity: Oral (rat) LD₅₀ = 1500 mg/kg (harmful); Dermal (rabbit) LD₅₀ >5000 mg/kg (no acute dermal toxicity); Inhalation (rat) LC₅₀ >5 mg/m³ (4h).
- Skin Corrosion/Irritation: No irritation (rabbit, 4h exposure).
- Eye Damage/Irritation: No irritation (rabbit, 24h exposure).
- Reproductive Toxicity: Category 1B; may cause birth defects, reduced fertility in males/females (animal studies).
- Target Organ Toxicity (Repeated Exposure): Endocrine system damage, liver function abnormalities, hormonal imbalance with prolonged exposure.
- Carcinogenicity: Not classified as carcinogenic by IARC/EPA/NTP.
- Mutagenicity: No mutagenic effects observed in standard tests (Ames test, chromosome aberration test).

SECTION 12: Ecological Information

12.1 **Toxicity:** Harmful to aquatic life; Zebrafish LC_{50} (96h) = 2.5 mg/L; Daphnia EC_{50} (48h) = 1.8 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 >1000) in aquatic organisms; accumulates in fatty tissues. 12.4 **Mobility in Soil:** Low mobility; binds strongly to soil organic matter. 12.5 **PBT/vPvB Assessment:** Classified as vPvB (very persistent, very bioaccumulative) based on test data. 12.6 **Other Adverse Effects:** Disrupts endocrine system of aquatic organisms; may cause population decline in sensitive species.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- Product Waste: Do not discharge to environment. Dispose of to a licensed hazardous waste treatment facility in accordance with local/national/international regulations (e.g., China HW03, EU EWC 080105).
 - Contaminated Packaging: Rinse packaging with small amount of suitable solvent, collect rinse for hazardous waste disposal; dispose of empty packaging as hazardous waste.
 - Spillage Residue: Collect all contaminated material as hazardous waste, do not mix with non-hazardous waste.
- 13.2 **Disposal Notes:** Do not incinerate without proper emission control; incineration must be carried out in a hazardous waste incinerator with gas treatment system.

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. (Stanozolol) 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 Precautions for User:**

- Transport in sealed original packaging, at 2-8°C using refrigerated transport.
 - Avoid direct sunlight, high temperature, collision and rough handling during transport.
 - Do not transport with food, beverages, aquatic products or non-hazardous goods.
 - Accompany with transport documents indicating hazardous goods classification and emergency contact.
- 14.7 **IATA Restrictions:** Permitted for air transport (cargo only), limited quantity per package (≤ 5 kg).

SECTION 15: Regulatory Information

15.1 National Regulations (China):

- Hazardous Chemical Safety Management Regulation: Classified as hazardous chemical (Class 9)
 - Environmental Protection Law: Prohibited from discharge to water/soil/air
 - Pharmaceutical Administration Law: Regulated as pharmaceutical raw material, subject to special licensing
- 15.2 **International Regulations:**



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- GHS Classification (Rev.9): Acute toxicity 4, Reproductive toxicity 1B, Target organ toxicity 2, Aquatic chronic 3
- REACH (EU): Registered; listed in Annex XVII (restrictions on reproductive toxicants)
- TSCA (US): Listed on TSCA Inventory; subject to EPA hazardous waste regulations
- IMDG Code: Class 9, UN 3077, Marine Pollutant
- IATA DGR: Class 9, UN 3077, Limited Quantity allowed

SECTION 16: Other Information

- This MSDS is based on current scientific and regulatory knowledge, complying with GB/T 16483, GB/T 17519 and GHS Rev.9 standards.
- The supplier is not liable for any damage or injury caused by improper use, storage, transport or disposal of this product.
- This document is for professional use only; not for general consumer use.
- Update status: This is the first revision (08 FEB 2026).



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