



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) - Etomidate

According to: GB/T 16483, GB/T 17519, GHS Rev.9, USP 45, EP 10.0 **Product Name:** Etomidate **CAS Number:** 33125-97-2 **Product Number:** ET-20260210 **Brand:** SIGALD **Revision Date:** 10 FEB 2026 **Supplier:** NEWAY SINOPHC TECH. LIMITED **Address:** RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE **Telephone/Fax:** +86-021-50350029 **Emergency Telephone:** +86-021-50350029 (24h)

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

1.1 Product Identifiers

- Product Name: Etomidate
- CAS-No.: 33125-97-2
- MDL No.: MFCD00058096
- Synonyms: (R)-1-Ethyl-1-phenyl-2-(imidazol-1-yl)ethyl carboxylate; Amidate
- Product Number: ET-20260210

1.4 Relevant Identified Uses and Uses Advised Against

- **Identified Uses:** Pharmaceutical raw material for the production of clinical intravenous anesthetic injections (only for licensed pharmaceutical enterprises).
- **Uses Advised Against:** Non-pharmaceutical use, direct clinical administration (raw material only), household use, unauthorized processing/sale, and use in food/cosmetic production.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Acute toxicity, oral (Category 4)
- Acute toxicity, dermal (Category 4)
- Acute toxicity, inhalation (dust/mist, Category 4)
- Specific target organ toxicity - single exposure (central nervous system, Category 3)
- Eye irritation (Category 2)

2.2 GHS Label Elements

- **Hazard Pictograms:** Exclamation mark (!)
- **Signal Word:** Warning
- **Hazard Statements:**
 - H302: Harmful if swallowed
 - H312: Harmful in contact with skin
 - H332: Harmful if inhaled
 - H319: Causes serious eye irritation
 - H373: May cause damage to organs (central nervous system) through prolonged or repeated exposure
- **Precautionary Statements:**
 - P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 - 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/doctor if you feel unwell
 - P302+P352: If on skin: Wash with plenty of soap and 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.
 - P312: Call a POISON CENTER/doctor if you feel unwell
 - P405: Store locked up
 - P501: Dispose of contents/container in accordance with local/national/international regulations

2.3-2.6 Hazards Summary



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- **Physical/Chemical Hazards:** Non-flammable, non-explosive, non-oxidizing under normal use; stable at recommended storage temperature.
- **Health Hazards:** Inhalation/skin contact/swallowing causes central nervous system depression (drowsiness, dizziness, sedation); serious eye irritation; no chronic toxic effects at occupational exposure levels.
- **Environmental Hazards:** Low toxicity to aquatic organisms; no long-term adverse environmental effects; slightly biodegradable.

SECTION 3: Composition/Information on Ingredients

- **Substance/Mixture:** Pure pharmaceutical grade substance (100% w/w)
- **Active Ingredient:** Etomidate (CAS:33125-97-2) | Hazard classification: see Section 2
- **No other ingredients/additives**

SECTION 4: First Aid Measures

4.1 First-Aid Measures

- **Inhaled:** Move victim to fresh air; keep respiratory tract open. If breathing is difficult, give oxygen; consult a physician if sedation/dizziness persists.
- **Skin Contact:** Remove contaminated clothing; rinse skin with plenty of soap and running water for 10~15 minutes. If irritation occurs, seek medical advice.
- **Eye Contact:** Rinse eyes thoroughly with plenty of sterile water for injection for 15 minutes (lift upper/lower eyelids); remove contact lenses if worn. **Consult an ophthalmologist immediately** (causes serious eye irritation).
- **Swallowed:** Do not induce vomiting; rinse mouth with water. Call a poison center/physician at once; provide symptomatic treatment for central nervous system depression if needed.

4.2 Most Important Symptoms

Acute: Drowsiness, dizziness, mild sedation, nausea, serious eye irritation; severe oral intake may cause deep sedation and impaired consciousness. Delayed: No known delayed toxic effects at occupational exposure levels.

4.3 Medical Attention

Inform the physician of the product name (Etomidate) and CAS number; treat symptomatically (e.g., respiratory support for central nervous system depression).

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- **Suitable:** Dry powder, carbon dioxide (CO₂), foam; water spray (for cooling fire-exposed containers).
- **Unsuitable:** No restrictions; avoid direct high-pressure water on bulk powder (to prevent dust spread).

5.2 Special Hazards

No hazardous combustion products under normal fire conditions; thermal decomposition at high temperature (>250°C) produces small amounts of carbon monoxide (CO) and nitrogen oxides (NO_x).

5.3 Firefighter Advice

Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective gear; fight fire from upwind; cool containers with water spray until fire is out; prevent fire water from entering drainage systems.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

- Wear full PPE (nitrile rubber gloves, chemical safety goggles, N95 dust mask, protective clothing); avoid contact with spilled material.
- Evacuate non-essential personnel; set up warning zones; operate in a well-ventilated area.

6.2 Environmental Precautions



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Prevent spilled powder/leachate from entering sewers, rivers, lakes and soil; contain spilled material with inert absorbents (e.g., sand, diatomite) to avoid environmental contamination.

6.3 Containment and Cleaning Up

- **Small Spill:** Absorb with inert absorbent; place into a sealed hazardous waste container for pharmaceutical waste disposal.
- **Large Spill:** Contain with dikes; collect with a vacuum cleaner (anti-static) into a sealed stainless steel drum; dispose of by licensed hazardous waste treatment enterprises.
- Do not reuse contaminated absorbents; do not wash spilled material into drainage systems.

SECTION 7: Handling and Storage

7.1 Safe Handling

- Operate only in GMP-certified workshops by trained pharmaceutical production personnel.
- Use closed operation and local exhaust ventilation to avoid dust generation/inhalation.
- Do not eat, drink or smoke during handling; wash hands/face thoroughly with soap after operation.
- Avoid contact with strong acids, strong bases, high temperature (>40°C) and strong light (to prevent degradation).

7.2 Safe Storage

- **Storage Conditions:** 2 ~ 8°C (refrigerated, dark place); tightly sealed HDPE/aluminum foil/stainless steel containers; relative humidity ≤60%.
- **Incompatibilities:** Strong acids (pH<3), strong bases (pH>10), oxidizing agents (e.g., hydrogen peroxide, potassium permanganate), reducing agents.
- **Storage Class:** Pharmaceutical raw material (non-hazardous for storage classification; locked storage in a dedicated pharmaceutical warehouse).
- **Shelf Life:** 24 months (unopened, 2~8°C refrigeration); 6 months after opening (sealed, refrigerated).

SECTION 8: Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

- No official national/international OEL for Etomidate; use **best practice exposure control** (closed system, local exhaust ventilation).
- Biological limit: No established standard.

8.2 Exposure Controls

- **Engineering Controls:** Closed operation, local exhaust ventilation, GMP workshop air filtration, dust collection system.
- **Personal Protective Equipment (PPE):**
 - Eye/Face: Chemical safety goggles + face shield (for bulk powder handling)
 - Skin: Nitrile rubber gloves (thickness ≥0.1mm) + impermeable protective clothing
 - Respiratory: N95 dust mask (for powder handling); no respiratory protection needed for normal liquid formulation handling
 - Other: Disposable hairnet/mask/gown (GMP compliance)
- **Hygiene:** Dedicated hand washing station; no food/drinks in the work area; separate storage of work clothes and daily clothes.

SECTION 9: Physical and Chemical Properties

表格

Property	Value
Physical State	White to off-white crystalline powder
Odor	Odorless
Melting Point	66 ~ 70°C
Boiling Point	Decomposes before boiling (>200°C)



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Property	Value
Flash Point	Non-flammable (no flash point)
Autoignition Temperature	>300°C
Solubility	Soluble in ethanol/chloroform/propylene glycol; slightly soluble in water
pH Value (0.5% propylene glycol solution, 25°C)	4.0 ~ 6.0
Density (25°C, solid)	1.12 g/cm ³
Vapor Pressure (25°C)	<0.001 hPa (negligible)
Particle Size	95% pass through 80-mesh sieve (pharmaceutical grade)
Stability	Stable at 2~8°C; degrades at >40°C and strong light

SECTION 10: Stability and Reactivity

10.1 Chemical Stability

Stable under **recommended storage conditions (2~8°C, dark, sealed)**; no degradation for the shelf life.

10.2-10.5 Reactivity Summary

- No hazardous reactions under normal use/handling conditions.
- **Conditions to Avoid:** High temperature (>40°C), direct strong light, moisture, contact with strong acids/alkalis/oxidizing/reducing agents.
- **Incompatible Materials:** Concentrated HCl/H₂SO₄, NaOH/KOH, H₂O₂, KMnO₄, sodium borohydride.
- **Hazardous Decomposition Products:** Carbon monoxide (CO), nitrogen oxides (NO_x), and aromatic hydrocarbons (at >250°C).
- No polymerization under normal conditions.

SECTION 11: Toxicological Information

11.1 Key Toxicological Data

- **Acute Toxicity:**
 - Oral (Rat, LD₅₀): 380 mg/kg bw
 - Dermal (Rabbit, LD₅₀): 420 mg/kg bw
 - Inhalation (Rat, LC₅₀, 4h): 1.5 mg/m³ (dust)
- **Skin Irritation (Rabbit):** Mild irritation (4h exposure, slight erythema)
- **Eye Irritation (Rabbit):** Severe irritation (24h exposure, conjunctivitis and corneal redness; reversible)
- **Sensitization:** No skin/respiratory sensitization (Guinea pig test)
- **Carcinogenicity:** IARC Class 3 (Not classifiable as to its carcinogenicity to humans)
- **Reproductive Toxicity:** No reproductive/teratogenic effects (rat/mouse tests at clinical relevant doses)
- **Target Organ Toxicity:** Central nervous system (sedation/depression); no other organ toxicity.

11.2 Toxicity Summary

The main toxic effect is central nervous system depression at high exposure levels; serious eye irritation is the primary local effect. No chronic toxic effects or carcinogenicity at occupational exposure levels; all acute effects are reversible with symptomatic treatment.

SECTION 12: Ecological Information

12.1 Ecotoxicity

- Fish (Zebrafish, LC₅₀, 96h): 12.5 mg/L
- Daphnia (EC₅₀, 48h): 8.6 mg/L
- Algae (EC₅₀, 72h): 15.3 mg/L
- **Conclusion:** Low toxicity to aquatic organisms; no acute lethal effect at low concentrations.



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12.2-12.7 Ecological Properties

- **Persistence/Degradability:** Slightly biodegradable ($BOD_5 / COD = 0.3\sim 0.4$) in aquatic environments.
- **Bioaccumulative Potential:** Low ($\log K_{ow}=3.2$; bioaccumulation factor (BAF) <100 in fish)
- **Mobility in Soil:** Low (adsorbs to soil organic matter; no leaching to groundwater)
- **PBT/vPvB:** Not classified as PBT/vPvB
- **Other Adverse Effects:** No adverse effects on soil microorganisms; no eutrophication risk.

SECTION 13: Disposal Considerations

13.1 Waste Treatment

- **Product Waste:** Classified as **pharmaceutical hazardous waste**; dispose of by licensed hazardous waste treatment enterprises (incineration at $>800^{\circ}C$ with flue gas treatment).
- **Packaging Waste:** Rinse packaging with ethanol (3 times); the rinse solution is incinerated with the product waste; the clean packaging is disposed of as pharmaceutical solid waste (or recycled if GMP-compliant).
- **Do not dispose of with household waste or general industrial waste;** do not discharge into sewers/rivers/soil.

13.2 Disposal Regulations

Comply with China's **Hazardous Waste Pollution Control Law, Pharmaceutical Waste Disposal Standards**, and EU **REACH/WEEE** regulations.

SECTION 14: Transport Information

14.1-14.7 Transport Details

- **UN Number:** UN 3077 (Environmentally hazardous substance, solid, n.o.s.)
- **UN Proper Shipping Name:** Etomidate (pharmaceutical raw material)
- **Transport Hazard Class:** 9 (Miscellaneous dangerous goods)
- **Packaging Group:** III
- **Marine Pollutant:** No
- **Special Transport Requirements:**
 1. Refrigerated transport ($2\sim 8^{\circ}C$) with real-time temperature monitoring; use sealed, shockproof, light-proof packaging.
 2. Load/unload gently; avoid package damage; store separately from food, feed, strong acids/alkalis in the transport vehicle.
 3. The transport vehicle is equipped with emergency spill treatment materials and fire-fighting equipment; no smoking/open fire during transport.
 4. Comply with national pharmaceutical raw material transportation regulations for road/air/sea transport.
- **International Transport:** Comply with IATA/IMDG/ADR regulations for Class 9 dangerous goods.

SECTION 15: Regulatory Information

15.1 National/International Regulations

- **China:**
 - Pharmaceutical Administration Law (pharmaceutical raw material classification)
 - Hazardous Chemical Safety Management Regulation (Class 9 miscellaneous dangerous goods)
 - Chinese Pharmacopoeia (2025 Edition)
 - GMP for Pharmaceutical Raw Materials
- **International:**
 - GHS Rev.9 (hazard classification)
 - USP 45 / EP 10.0 (pharmacopoeial standards)
 - REACH (EU) (registered; not in SVHC Candidate List)
 - TSCA (US) (listed on the TSCA Inventory)
 - IATA/IMDG (Class 9 transport regulations)



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15.2 Other Requirements

- Production/sale/use limited to **licensed pharmaceutical enterprises** with GMP certification.
- Occupational operation requires professional pharmaceutical production training and compliance with GMP guidelines.

SECTION 16: Other Information

- **MSDS Validity:** This MSDS is valid for 3 years from the revision date (10 FEB 2026) unless the product formula or hazard information changes.
- **Disclaimer:** This MSDS is based on current scientific and technical knowledge; the supplier is not liable for any damage caused by improper use, non-compliance with regulations, or unauthorized handling of the product.
- **Additional Information:** For more technical/formulation data, contact the supplier's technical department (+86-021-50350029).
- **Key Reminder:** This product is a pharmaceutical raw material and shall only be used for the production of licensed clinical drugs; any unauthorized use is prohibited by law.



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