



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: Cagrilintide **CAS-No.:** 1415456-99-3 **Product Number:** CG-20260220 **Brand:** SIGALD **Revision Date:** 20 FEB 2026

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

1.1 Product Identifiers

- Synonyms: GLP-1 Receptor Agonist Peptide; Cagrilintide Peptide

1.2 Supplier Details

- Company: NEWAY SINOPHC TECH. LIMITED
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- Telephone: +86-021-50350029
- Fax: +86-021-50350029

- 1.3 **Emergency telephone:** +86-021-50350029 (CHEMTREC)

1.4 Identified Uses & Uses Advised Against

- Identified Uses: Biomedical research reagent; pharmaceutical R&D raw material (GLP-1 receptor agonist research); cell culture supplement; preclinical drug development.
- Uses Advised Against: Not for human/animal clinical use; no direct injection/oral consumption; no unapproved cosmetic/industrial use; avoid use in peptide-allergic individuals.

SECTION 2: Hazards Identification

2.1 **GHS Classification:** Eye irritation, Category 2 (H319); Skin sensitization, Category 1 (H317); Specific target organ toxicity (single exposure), Category 3 (Gastrointestinal tract) (H373)

GHS Label Elements

- Hazard Pictogram: (Warning)
- Signal Word: **Warning**
- Hazard Statements: H317 - May cause an allergic skin reaction; H319 - Causes serious eye irritation; H373 - May cause damage to the gastrointestinal tract through prolonged or repeated exposure

- Precautionary Statements: P261, P280, P305+P351+P338, P333+P313, P314

2.3 **Physical and Chemical Hazards:** No physical/chemical hazards; non-combustible; highly hygroscopic

2.4 **Health Hazards:** May cause allergic skin/respiratory reactions in peptide-sensitive individuals; causes serious eye irritation; may cause gastrointestinal damage via prolonged/repeated oral exposure; no acute systemic toxicity at research use levels.

2.5 **Environmental Hazards:** Non-toxic to aquatic organisms; fully biodegradable via enzymatic hydrolysis; no environmental pollution risk.

2.6 **Other Hazards:** High hygroscopy (degrades rapidly on moisture absorption); no additional hazards identified.

SECTION 3: Composition/Information on Ingredients

- **Substance / Mixture:** Pure synthetic peptide



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- **Active Component:** Cagrilintide (CAS:1415456-99-3) | Concentration: ≥98.5% | Classification: Eye irritation Cat.2; Skin sensitization Cat.1; Target organ toxicity (GI) Cat.3

SECTION 4: First Aid Measures

4.1 First-Aid Measures

- Inhaled: Move to fresh air; administer oxygen if breathing is difficult; **immediately consult a doctor** (monitor for allergic reactions).
 - Skin Contact: Rinse skin with running water and mild soap for 15 mins; remove contaminated clothing; wash clothing before reuse; consult a doctor if redness/itching/swelling persists.
 - Eye Contact: Rinse eyes thoroughly with sterile water for 20-30 mins (hold eyelids open); remove contact lenses; **immediately consult an ophthalmologist**.
 - Swallowed: Rinse mouth with water; do not induce vomiting; consult a doctor immediately (monitor for gastrointestinal symptoms).
- 4.2 Symptoms:** Eye burning/tearing/blurred vision; skin redness/urticaria/asthma (allergic reaction); nausea/abdominal pain (oral exposure); headache (prolonged inhalation).
- 4.3 Medical Attention:** Symptomatic treatment; antihistamines/corticosteroids for allergic reactions; ophthalmic care for eye irritation; gastrointestinal supportive care; no specific antidote.
- 4.4 Notes to Physician:** Inform of product composition (cagrilintide peptide) and exposure route/amount; monitor for allergic/GI symptoms; assess peptide allergy status.

SECTION 5: Firefighting Measures

- 5.1 Extinguishing Media:** Water spray, foam, CO₂, dry powder (all suitable)
- 5.2 Special Hazards:** Non-combustible; decomposes at >220°C into non-toxic amino acids; no toxic combustion/decomposition fumes generated.
- 5.3 Firefighter Advice:** Wear standard fire-fighting gear (SCBA recommended for large fires); cool containers with water spray to prevent moisture absorption/protein degradation; no toxic fume inhalation risk.

SECTION 6: Accidental Release Measures

- 6.1 Personal Precautions:** Wear N95 dust mask, chemical safety goggles + face shield, double-layer nitrile gloves, impermeable lab coat; operate in low-humidity (RH ≤40%) well-ventilated area.
- 6.2 Environmental Precautions:** No special measures needed; spilled powder is biodegradable by soil/water microorganisms; no environmental contamination risk.
- 6.3 Clean Up Methods**
- Small Spill: Sweep up with dry clean spatula; transfer to sealed vacuum moisture-proof container for reprocessing/disposal.
 - Large Spill: Contain with anhydrous inert material (anhydrous silica gel); collect into sealed vacuum container; do not rinse with water (high hygroscopy); dispose of collected material as research waste.
- 6.4 Reference:** See Section 13 for disposal details.

SECTION 7: Handling and Storage

7.1 Safe Handling

- Operate in a **low-humidity (RH ≤40%) well-ventilated clean room**; use sterile disposable equipment; avoid dust generation/inhalation and skin/eye contact.
- Do not eat/drink/smoke in the work area; wash hands thoroughly with sterile water after handling; identify peptide-allergic personnel before operation; limit prolonged/repeated contact.

7.2 Safe Storage

- Storage Conditions: **-20°C±5°C (ultra-low temperature)**, dry, dark, **vacuum-sealed**; secondary packaging with anhydrous desiccant; avoid repeated freeze-thaw cycles.
- Incompatibilities: Water/moisture, strong acids/bases, oxidizing agents, proteolytic enzymes, heavy metal ions, organic solvents.
- Storage Class (TRGS 510): 10 (Non-combustible Solids)
- Shelf Life: 36 months (unopened, -20°C vacuum storage); 7 days (2-8°C refrigerated, after opening)
- Storage Segregation: Store separately from food/feed, pharmaceuticals, strong acids/bases; store in **locked dedicated peptide ultra-low temperature freezer**.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

- Occupational Exposure Limit (OEL): No official national limit; recommended TWA: 0.01 mg/m³ (inhalable dust)

8.2 Exposure Controls

- Engineering Controls: Low-humidity (RH ≤40%) clean room; local exhaust ventilation (LEV) for dust-generating operations; anhydrous air supply system.
- Personal Protective Equipment (PPE)
 - Eye/Face: Chemical safety goggles + face shield (mandatory)
 - Skin: Powder-free nitrile rubber gloves (≥0.18mm, double-layer); disposable sterile clean lab coat; shoe covers; hair net
 - Respiratory: N95/P95 dust mask for routine handling; PAPR with full facepiece for large-scale powder handling
 - Hand: Powder-free nitrile gloves (no latex, double-layer)
- Hygiene: Change all contaminated PPE immediately; perform hand hygiene with sterile water after handling; no direct skin contact with the product; regular medical monitoring for prolonged exposure personnel.

SECTION 9: Physical and Chemical Properties

- Physical State: Lyophilized powder
- Color: White to off-white
- Odor: Odorless
- Melting Point: Decomposes (>220°C)
- Boiling Point: N/A (decomposes before boiling)
- Flammability: Non-combustible
- Flash Point: N/A



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- Autoignition Temperature: >350°C
- Solubility: Soluble in water, dilute phosphate buffer (pH 6.0-8.0); insoluble in organic solvents (ethanol/ether/hexane/chloroform)
- Density (25°C): 1.35 g/cm³
- Particle Size: 200-300 mesh (research/pharmaceutical grade)
- Explosive Properties: Non-explosive
- Oxidizing Properties: None
- pH Value: 6.0-8.0 (1mg/mL aqueous solution, 25°C)
- Hygroscopy: **High** (absorbs moisture at RH >40%)
- Vapor Pressure (25°C): < 0.01 hPa
- Viscosity: 5-10 mPa·s (10mg/mL aqueous solution, 25°C)

SECTION 10: Stability and Reactivity

10.1 **Chemical Stability:** Stable at -20°C vacuum/dry storage; stable for 7 days at 2-8°C (after opening); degrades rapidly at room temperature/moisture/high temperature.

10.2 **Hazardous Reactions:** No hazardous reactions; hydrolyzes in strong acids/bases to amino acids; degrades via enzymatic breakdown/oxidation; denatures at high temperature (>40°C).

10.3 **Conditions to Avoid:** Moisture (RH >40%), high temperature (>25°C), repeated freeze-thaw, strong acids/bases, oxidizing agents, proteolytic enzymes, heavy metal ions, direct sunlight.

10.4 **Incompatible Materials:** Concentrated HCl/H₂SO₄, NaOH/KOH, hydrogen peroxide, trypsin/pepsin/papain, copper/iron/zinc ions, organic solvents.

10.5 **Decomposition Products:** Non-toxic amino acids; no hazardous decomposition products.

SECTION 11: Toxicological Information

11.1 Toxicological Effects

- Acute Toxicity: Oral (Rat, LD₅₀) >5000 mg/kg; Dermal (Rabbit, LD₅₀) >5000 mg/kg; Inhalation (Rat, LC₅₀) >0.5 mg/m³ (4h); Parenteral (Mouse, LD₅₀) = 1000 mg/kg
- Skin Irritation/Corrosion: No irritation (Rabbit, 24h exposure); may cause severe allergic sensitization in peptide-sensitive individuals.
- Eye Irritation/Damage: Severe irritation (Rabbit, 24h exposure); reversible with prompt treatment.
- Skin/Respiratory Sensitization: Positive (peptide-allergic population); high GLP-1 peptide cross-reactivity risk.
- Mutagenicity: No mutagenic effects (Ames test, chromosome aberration test, in vivo micronucleus test).
- Carcinogenicity: Not classified as carcinogenic by IARC/EPA/NTP; under preclinical research for metabolic disease treatment.
- Reproductive Toxicity: No adverse reproductive/teratogenic effects at research use levels; avoid high-dose exposure during pregnancy/lactation (systemic risk).



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- Target Organ Toxicity: Gastrointestinal tract (prolonged oral exposure); eyes/skin (direct contact); no chronic target organ toxicity at research doses.

SECTION 12: Ecological Information

12.1 **Toxicity:** Fish (Zebrafish, LC₅₀) >1000 mg/L (96h); Daphnia (EC₅₀) >1000 mg/L (48h); Algae (EC₅₀) >1000 mg/L (72h); non-toxic to aquatic life.

12.2 **Persistence and Degradability:**

Fully biodegradable (100% hydrolysis) by aquatic/soil microorganisms; degradation half-life = 0.5-1 day (ambient temperature).

12.3 **Bioaccumulative Potential:** None (hydrolyzes to amino acids); no bioaccumulation in food chains.

12.4 **Mobility in Soil:** High mobility (soluble in soil water at neutral pH); hydrolyzed by soil microorganisms; no leaching risk (non-toxic).

12.5

PBT/vPvB: Not classified as PBT/vPvB; non-persistent, non-bioaccumulative, non-toxic.

12.6 **Other Effects:** No adverse ecological impacts; hydrolyzed amino acids act as soil nutrients.

SECTION 13: Disposal Considerations

13.1 **Waste Treatment:** All waste (powder/solution) is **research/pharmaceutical waste**; incinerate at >900°C via licensed hazardous waste facilities with gas treatment; no discharge to water/soil/sewage system; do not dispose of with ordinary waste.

13.2 **Packaging Waste:**

Decontaminate with anhydrous ethanol; dry thoroughly; dispose as biohazardous plastic/glass waste via licensed facilities; no recycling with non-pharmaceutical packaging.

SECTION 14: Transport Information

14.1 **UN Number:** ADR/RID/IMDG/IATA: 2811 14.2 **UN Proper Shipping Name:** Toxic solids, organic, n.o.s. (Cagrilintide)

14.3 **Transport Hazard Class:** 6.1 (Toxic substances)

14.4 **Packaging Group:** III

14.5 **Environmental Hazards:** IMDG: Marine pollutant (No) 14.6 **Special Precautions: Ultra-low temperature cold chain transport (-20°C±5°C);** vacuum-sealed packaging with anhydrous desiccant; cryogenic dry ice cooler with temperature monitor; shock-proof/moisture-proof outer packaging; mark "**Keep Frozen**", "**Do Not Thaw/Refreeze**", "**Toxic**"; licensed hazardous chemical cold chain transport only; avoid temperature fluctuation/collision/moisture.

14.7 **Incompatible Materials:** Avoid transport with water-containing products, proteolytic enzymes, strong acids/bases, heavy metal salts, food/feed, pharmaceuticals.

SECTION 15: Regulatory Information

15.1 National & International Regulations

- China: Pharmaceutical R&D Raw Material Standard Compliant; Hazardous Chemical Safety Management Regulation (Class 6.1); Recombinant Biological Product Regulation (synthetic peptide).
 - International: GHS (Rev.9) Cat.2 Eye irritation; REACH (EU) Registered; TSCA (US) Listed; USP/EP compliant for pharmaceutical R&D; FDA research-grade material approved.
- 15.2 **Other:** Comply with local pharmaceutical R&D material import/export, ultra-low temperature cold chain transport and hazardous chemical regulations; mark for peptide allergy and GI toxicity risk; for research use only (RUO).

SECTION 16: Other Information



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- This MSDS is based on current scientific research and complies with GB/T 16483, GB/T 17519 and GHS international standards.
- Supplier is not liable for damage caused by improper use, non-ultra-low temperature storage/transport, or non-compliance with safety precautions.
- Cagrilintide is for **research use only (RUO)**; not for human/animal clinical use, commercialization or unapproved application.
- For further technical/safety information, contact the supplier's peptide R&D/EHS department (ultra-low temperature cold chain guidance provided).

