

# Safety Data Sheet (SDS)

## Section 1: Identification

### 1.1 Product Identification

**Product Name:** Retatrutide

**Product Number:** Sigma-1492025187

**Brand:** Sigma

**CAS Number:** 2381089-83-2

**EC Number:** Not specified

**Molecular Formula:** C<sub>221</sub>H<sub>342</sub>N<sub>46</sub>O<sub>68</sub>

**Molecular Weight:** 4731 g/mol

**Website:** Sigma Chemical

### 1.2 Supplier Details

**Company Name:** Sigma Chemical Co., Ltd.

**Address:** Room 2-1-2301, Jiahe Xinxing, No.130, Shandong Road, Shibei

District, Qingdao City, Shandong Province, China

**Phone Number:** +8618661891880

**Email:** [chemweb3@foxmail.com](mailto:chemweb3@foxmail.com)

**Business Hours:**

Monday to Friday: 9:00 AM - 6:00 PM

Saturday: 9:00 AM - 1:00 PM

Sunday: Closed

### **1.3 Emergency Contact Number**

**Emergency Contact:** +8618661891880

### **1.4 Recommended Use and Restrictions**

**Recommended Use:** For research and development purposes only. Not for use as a drug, household product, or in any other application.

**Restrictions:** Not for food or drug use, for laboratory use only.

## **Section 2: Hazard Identification**

### **2.1 GHS Classification**

**Acute Toxicity:**

Oral: Category 4, H302 (Harmful if swallowed)

Inhalation: Category 4, H332 (Harmful if inhaled)

**Specific Target Organ Toxicity (Repeated Exposure):**

Inhalation: Category 2, H373 (May cause damage to organs through prolonged or repeated exposure)

### **2.2 GHS Label Elements**

**Pictogram:** Warning

**Signal Word:** Warning

**Hazard Statements:**

H302: Harmful if swallowed

H332: Harmful if inhaled

H373: May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements:**

Prevention:P260: Do not breathe dust/fume/gas/mist/vapours/spray

P264: Wash thoroughly after handling

P270: Do not eat, drink, or smoke when using this product

Response:P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P304+P312: IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

Disposal:P501: Dispose of contents/container in accordance with local/regional/national/international regulations

## **2.3 Physical and Chemical Hazards**

**Physical and Chemical Hazards:** Non-flammable. Ignition sources may release hazardous fumes.

## **2.4 Health Hazards**

**Health Hazards:**

H302: Harmful if swallowed

H332: Harmful if inhaled

H373: May cause damage to organs through prolonged or repeated exposure

## **2.5 Environmental Hazards**

**Environmental Hazards:** No environmental hazards identified based on current information.

## **Section 3: Composition/Information on Ingredients**

### **3.1 Substance**

**Synonyms:** Retatrutide, LY-3437943

**Molecular Formula:** C<sub>221</sub>H<sub>342</sub>N<sub>46</sub>O<sub>68</sub>

**Molecular Weight:** 4731 g/mol

**CAS Number:** 2381089-83-2

**EC Number:** Not specified

**Hazardous Components:**

Component: Retatrutide

Classification: Acute Toxicity: Category 4 (Oral), H302

Acute Toxicity: Category 4 (Inhalation), H332

Specific Target Organ Toxicity (Repeated Exposure): Category 2, H373

## **Section 4: First Aid Measures**

### **4.1 First Aid Measures**

**Inhalation:** Remove victim to fresh air. If feeling unwell, call a POISON CENTER/doctor.

**Skin Contact:** Immediately wash with plenty of water for at least 15 minutes.

Remove contaminated clothing and wash before reuse. Get medical attention if irritation persists.

**Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes.

Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if eye irritation persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Call a POISON CENTER/doctor if feeling unwell.

#### **4.2 Most Important Symptoms and Effects**

**Symptoms:** Difficulty in breathing. Symptoms of overexposure may include headache, dizziness, tiredness, nausea, and vomiting.

#### **4.3 Immediate Medical Attention and Special Treatment**

**Medical Treatment:** Treat symptomatically.

### **Section 5: Firefighting Measures**

#### **5.1 Extinguishing Media**

**Suitable Extinguishing Agents:** Use fire extinguishing methods suitable for the surrounding environment. Solid water stream may be used.

#### **5.2 Specific Hazards Arising from the Chemical**

**Hazardous Combustion Products:** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Gaseous hydrogen fluoride (HF)

### 5.3 Firefighting Precautions

**Protective Equipment:** Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

## Section 6: Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment, and Emergency

#### Procedures

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment as required. Ground all equipment used when handling the product. Avoid contact with skin, eyes, or clothing. Remove all sources of ignition. Take precautionary measures against static discharge.

**Environmental Precautions:** Prevent seepage into sewage systems, workpits, and surface or ground water.

### 6.2 Methods and Materials for Containment and Clean-Up

**Containment:** For small leaks, absorb with inert absorbent material (e.g., sand, diatomite, acid binders, universal binders) or collect in a tightly sealable container. For large leaks, enclose with banks to prevent outflow and lead the leakage to a safe place for disposal.

### 6.3 Reference to Other Sections

**Other Sections:** See Section 8 for personal protection equipment and Section 13 for disposal.

## **Section 7: Handling and Storage**

### **7.1 Handling Precautions**

**Handling:** Ensure adequate ventilation. Wear personal protective equipment/face protection. Use spark-proof tools and explosion-proof equipment. Keep away from open flames, hot surfaces, and sources of ignition. Avoid contact with skin, eyes, or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid ingestion and inhalation. Take precautionary measures against static discharge.

### **7.2 Storage Conditions**

**Storage:** Store in a dry, cool, and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks, and flame. Store in a flammable area. Keep container tightly closed in a dry and well-ventilated place. Incompatible materials include strong oxidizing agents, strong acids, strong bases, strong reducing agents, and water.

## **Section 8: Exposure Controls/Personal Protection**

### **8.1 Control Parameters**

**Exposure Limits:** No occupational exposure limits established by regional regulatory authorities.

## **8.2 Exposure Controls**

**Engineering Measures:** Ensure adequate ventilation, especially in confined areas.

## **8.3 Personal Protective Equipment**

**Respiratory Protection:** Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

**Hand Protection:** Wear compatible chemical-resistant gloves to prevent skin exposure.

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

**Body Protection:** Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

**Advice on Safe Handling:** Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

# **Section 9: Physical and Chemical Properties**

## **9.1 Information on Basic Physical and Chemical Properties**

**Form:** Powder

**Color:** Not specified



**Odor:** Not specified

**pH:** Not applicable

**Melting Point:** Not specified

**Boiling Point:** Not specified

**Flash Point:** Not specified

**Solubility in Water:** Not specified

## **9.2 Other Information**

**Molar Mass:** 4731 g/mol

## **Section 10: Stability and Reactivity**

### **10.1 Reactivity**

**Reactivity:** No specific reactivity hazards identified based on current information.

### **10.2 Chemical Stability**

**Chemical Stability:** Stable under recommended storage conditions.

### **10.3 Possibility of Hazardous Reaction**

**Hazardous Decomposition Products:** Nitrogen oxides (NO<sub>x</sub>), carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO)

### **10.4 Conditions to Avoid**

**Conditions to Avoid:** Exposure to heat, sparks, and flame. Avoid contact with strong oxidizing agents, strong acids, strong bases, strong reducing agents, and water.

## **10.5 Incompatible Materials**

**Incompatible Materials:** Strong oxidizers

# **Section 11: Toxicological Information**

## **11.1 Information on Toxicological Effects**

**Acute Toxicity:** Category 4 (Oral), H302 (Harmful if swallowed); Category 4 (Inhalation), H332 (Harmful if inhaled)

**Specific Target Organ Toxicity (Repeated Exposure):** Category 2, H373 (May cause damage to organs through prolonged or repeated exposure)

**Other Relevant Toxicity Information:** No additional toxicological data available

# **Section 12: Ecological Information**

## **12.1 Toxicity**

**Acute Toxicity in Aquatic Organisms:** No data available

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Results of PBT and vPvB Assessment:** No data available

**Other Adverse Effects:** No data available

## **12.2 Disposal Considerations**

**Disposal:** Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and exhaust air. Dispose of waste according to local, regional, national, or international regulations.

## **Section 13: Disposal Considerations**

**Disposal:** Dispose of contents and container in accordance with local, regional, national, or international regulations.

## **Section 14: Transport Information**

**14.1 UN Number:** Not Dangerous Goods

**14.2 UN Proper Shipping Name:** Not Dangerous Goods

**14.3 Transport Hazard Class(es):** Not Dangerous Goods

**14.4 Packing Group:** Not Dangerous Goods

**14.5 Environmental Hazard Class:** Not Dangerous Goods

**14.6 Special Precautions for User:** Not applicable