

Safety Data Sheet (SDS)

Section 1: Identification

1.1 Product Identification

- **Product Name:** Vosoritide acetate
- **Product Number:** Sigma-1492025163
- **Brand:** Sigma
- **CAS Number:** 1480724-61-5
- **EC Number:** Not specified
- **Molecular Formula:** C₁₇ H₂₉ N₆ O₅ S₃
- **Molecular Weight:** 4102.73 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
- **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 unauthorized application.

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 substances.

2.4 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

- No environmental hazards identified based on current information.

Section 3: Composition/Information on Ingredients

3.1 Substance

- **Synonyms:** Vosoritide acetate
- **Molecular Formula:** C₁₇₆ H₂₉₀ N₅₆ O₅₁ S₃
- **Molecular Weight:** 4102.73 g/mol
- **CAS Number:** 1480724-61-5
- **EC Number:** Not specified
- **Hazardous Components:**
 - Component: Vosoritide acetate
 - 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:** Move victim to fresh air. If breathing is difficult, give CPR. Avoid mouth-to-mouth resuscitation.
- **Skin Contact:** Rinse skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician if irritation persists.
- **Eye Contact:** Remove contact lenses if present and easy to do. Rinse eyes with plenty of water for at least 15 minutes. Call a physician 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 water spray, dry chemical, foam, or carbon dioxide fire extinguisher.

5.2 Specific Hazards Arising from the Chemical

- **Hazardous Combustion Products:** May emit irritant fumes during combustion.

5.3 Firefighting Precautions

- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency

Procedures

- **Personal Precautions:** Use full personal protective equipment. Avoid breathing vapors/mist/dust/gas. Ensure adequate ventilation. Evacuate personnel to safe areas (refer to section 8 for protective measures).
- **Environmental Precautions:** Prevent further leakage or spillage. Keep away from drains or water courses.

6.2 Methods and Materials for Containment and Clean-Up

- **Containment:** Absorb with liquid-binding material (e.g., diatomite, universal binders). Decontaminate with alcohol. Dispose according to section 13.

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:** Avoid inhalation, eye and skin contact, dust and aerosol formation. Use in areas with appropriate exhaust ventilation.

7.2 Storage Conditions

- **Storage:** Keep container tightly sealed in a cool, well-ventilated area. Keep away from direct sunlight and ignition sources.

Recommended Storage:

- Powder: -20°C for 3 years, 4°C for 2 years
- In solvent: -80°C for 6 months, -20°C for 1 month

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.

Section 9: Physical and Chemical Properties

- **Appearance:** White to off-white lyophilized powder or cake.
- **Solubility:** Soluble in water.
- **Storage Conditions:** Lyophilized product must be stored refrigerated at 2°C to 8°C (36°F to 46°F). After reconstitution, it should be used immediately or stored in a refrigerator for a very limited time.

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Reactivity:** Avoid contact with strong oxidizing agents, strong acids, strong bases, strong reducing agents, and incompatible materials.

Section 11: Toxicological Information

- **Acute Toxicity:** Refer to Section 2.1 for GHS classification.

- **Repeated Exposure:** May cause damage to organs through prolonged or repeated exposure.

Section 12: Ecological Information

- No specific ecological information available.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport Information

- **UN Number:** Not specified
- **Hazard Class:** Not specified
- **Packing Group:** Not specified

Section 15: Regulatory Information

- **Regulatory Information:** Comply with all applicable local, regional, national, and international regulations.
-