

# Safety Data Sheet (SDS)

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## Section 1: Identification

### 1.1 Product Identification

- Product Name: Zanubrutinib
- Product Number: Sigma-1492025175
- Brand: Sigma
- CAS Number: 1691249-45-2
- EC Number: 184-710-7
- Molecular Formula: C<sub>27</sub>H<sub>29</sub>N<sub>5</sub>O<sub>3</sub>
- Molecular Weight: 471.5 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 unapproved application.
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## **Section 2: Hazard Identification**

### **2.1 GHS Classification**

- 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**

- 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 specific environmental hazards identified based on current information.

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

### **3.1 Substance**

- Synonyms: Zanubrutinib, BGB-3111, Brukinsa, AG9MHG098Z
- Molecular Formula: C<sub>27</sub>H<sub>29</sub>N<sub>5</sub>O<sub>3</sub>
- Molecular Weight: 471.5 g/mol
- CAS Number: 1691249-45-2
- EC Number: 184-710-7
- Hazardous Components:
- Component: Zanubrutinib
- Classification:
- Acute Toxicity: Category 4 (Oral), H302
- Acute Toxicity: Category 4 (Inhalation), H332

- Specific Target Organ Toxicity (Repeated Exposure): Category 2, H373
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## **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.

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## **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 equipment.

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## **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.

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## **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 non-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.
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## **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.

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## Section 9: Physical and Chemical Properties

- Appearance: White to off-white crystalline powder
  - Odor: Odorless
  - pH: Not applicable
  - Melting Point: Not specified
  - Boiling Point: Not specified
  - Flash Point: Not specified
  - Evaporation Rate: Not specified
  - Solubility in Water: Soluble
  - Partition Coefficient (n-octanol/water): Not specified
  - Autoignition Temperature: Not specified
  - Decomposition Temperature: Not specified
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## Section 10: Stability and Reactivity

### 10.1 Reactivity

- Stable under normal conditions.
- Avoid contact with strong oxidizing agents, strong acids, strong bases, and strong reducing agents.

### 10.2 Hazardous Decomposition Products

- Decomposition Products: None specified

### 10.3 Conditions to Avoid

Conditions to Avoid: High temperatures, ignition sources

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## **Section 11: Toxicological Information**

### **11.1 Acute Toxicity**

- Category 4, H302 (Harmful if swallowed)
- Category 4, H332 (Harmful if inhaled)

### **11.2 Specific Target Organ Toxicity (Repeated Exposure)**

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

### **11.3 Other Toxicological Information**

Other Information: No specific data available

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## **Section 12: Ecological Information**

Ecological Information: No specific data available

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## **Section 13: Disposal Considerations**

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

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## **Section 14: Transport Information**

Transport Information: No specific data available

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## **Section 15: Regulatory Information**

Regulatory Information: No specific data available