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# Safety Data Sheet acc. to OSHA HCS

Date of issue: 10/23/2024

Revision date 10/23/2024

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· Product identifier	
<sup>.</sup> Trade name: <u>Bentamapin</u>	nod
· Synonym	udun han dheathau d'Ann ministin d'A han setteriste a setterituile
α-[2-[[4-(4-morpholinyimetr AS-602801	nyl)phenyl]methoxy]-4-pyrimidinyl]-2-benzothiazoleacetonitrile
· CAS Number:	
848344-36-5	
• Other means of identifica	ition
· Article number: 21482	
· EC number:	
805-471-3 • Application of the substa	nce / the mixture
	n use - Not for human or veterinary diagnostic or therapeutic use.
· Details of the supplier of	
• Manufacturer/Supplier:	
Cayman Chemical Co.	
1180 E. Ellsworth Rd.	
Ann Arbor, MI 48108 USA	
· Information department:	Draduat asfaty department
· Emergency telephone nu	
During normal opening time	
US/CANADA: 800-424-930	
Outside US/CANADA: 703-	-741-5970
2 Hazard(s) identificati	on
· Classification of the subs	stance or mixture
GHS07	
Acute toxicity - oral 4	4202 Hormful if availated
•	
Acute toxicity - inhalation 4	
•	H315 Causes skin irritation.

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<pre>(Cond. from page 1)</pre>			
<ul> <li>Signal word Warning</li> <li>Hzard statements</li> <li>Mazd statements</li> <li>Mazd statements</li> <li>Mazd Statements</li> <li>Maxed statements</li> <li>Precutionary statements</li> <li>Precutionary statements</li> <li>Precutionary statements</li> <li>Maxed wash thoroughly after handling.</li> <li>Part Avid breadstrim dusffume/gas/mist/vapors/spray</li> <li>Pace Wash thoroughly after handling.</li> <li>Pace only outdoors or in a well-ventilated area.</li> <li>Pathet and drink or smoke when using this product.</li> <li>Pathet and this or smoke when using this product.</li> <li>Pathet Maxed Wash tholenty of water.</li> <li>Pathet Maxed Wash tholenty of water.</li> <li>Pathet Remove person to fresh sir and keep comfortable for breathing.</li> <li>Pathet Remove person to fresh wash it before reuse.</li> <li>Pathet Statements</li> <li>Pathet Statement (see on this label).</li> <li>Pathet Statement (see on this label).</li> <li>Pathet Statements (contaminated clothing and wash it before reuse.</li> <li>Past Past I find in porticular dangers for man and environment: regulations.</li> <li>Past Past State State State 1.</li> <li>Past Past Past Past Past Past Past Past</li></ul>	· Hazard pic	tograms	(Contd. from page 1)
<ul> <li>Signal word Warning</li> <li>Hazard statements</li> <li>H302+H332 Harmful if swallowed or if inhaled.</li> <li>H315 Causes skin irritation.</li> <li>Preautionary statements</li> <li>P261 Avoid breatting dust/fume/gas/mist/vapors/spray</li> <li>P264 Wash thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P200 Wear protective gloves.</li> <li>P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.</li> <li>P302 +P342 If on skin: Wash with plenty of water.</li> <li>P302 +P342 If on skin: Wash with plenty of water.</li> <li>P302 +P342 If on skin: Wash with plenty of mater.</li> <li>P31 Specific treatment (see on this label).</li> <li>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P324-P343 If skin irritation occurs: Get medical advice/attention.</li> <li>P324-P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P324-P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P324-P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P324-P340 If inhaled: Call and yosh it before reuse.</li> <li>P301 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Information pertaining to particular dangers for man and environment:</li> <li>Classification system:</li> <li>RFA ratings (scale 0 - 4)</li> <li>If e 0</li> <li>Reactivity = 0</li> <li>Health = 2</li> <li>Fire = 0</li> <li>Reactivity = 0</li> <li>Health = 2</li> <li>Fire = 0</li> <li>Reactivity = 0</li> <li>P402 End advitor of PST and vPVB assessment</li> <li>P304 policable.</li> <li>VPW: Not applicable.</li> <li>VPW: Not applicable.</li> <li>VPW: Not applicable.</li> <li>YPW: Not appl</li></ul>	▲ ·		
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#### **3** Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description 848344-36-5 Bentamapimod
- Identification number(s)
- EC number: 805-471-3

#### 4 First-aid measures

• Description of first aid measures

#### · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **5 Fire-fighting measures**

- Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Ensure adequate ventilation.
- Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- **PAC-2:** Substance is not listed.
- · PAC-3: Substance is not listed.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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#### 7 Handling and storage

· Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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• Eye protection: Not required.

9 Physical and chemical properties	
Information on basic physical and chemical	properties
General Information	
Physical state	Solid
Color:	Not determined.
Odor:	Characteristic
Structural Formula	C25H23N5O2S
· Molecular Weight	457.5 g/mol
· Storage Buffer	
· Odor threshold:	Not determined.
· Formulation	
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.
<ul> <li>Boiling point/Boiling range:</li> </ul>	Undetermined.
· Flammability:	Product is not flammable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
pH-value:	Not applicable.
· Viscosity:	
· Kinematic:	Not applicable.
SOLUBILITY	DMF: 2 mg/ml; DMSO: 2 mg/ml
· Dynamic:	Not applicable.
<ul> <li>Solubility in / Miscibility with</li> </ul>	
· Water:	Not determined.
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	Not determined.
Vapor pressure:	Not applicable.
· Vapor pressure:	
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not applicable.
Particle characteristics	Not determined.
· Other information	
· Appearance:	
· Form:	Solid
<ul> <li>Important information on protection of heal and environment, and on safety.</li> </ul>	ui
· Ignition temperature:	Not determined.
Danger of explosion:	
	Product does not present an explosion hazard.
Change in condition     Evaporation rate	Netennicable
· Evaporation rate	Not applicable.

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

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- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents, strong bases, strong acids
- Hazardous decomposition products:
- carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides

## **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **13 Disposal considerations**

#### · Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

4 Transport information		
· UN-Number · DOT, IMDG, IATA	not regulated	
<ul> <li>UN proper shipping name</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated	
· Transport hazard class(es)		
<sup>·</sup> DOT, ADN, IMDG, IATA <sup>·</sup> Class	not regulated	
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated	
· Environmental hazards:	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	<b>x II of</b> Not applicable.	
· Special precautions for user	Not applicable.	
· UN "Model Regulation":	not regulated	

#### **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to

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## Trade name: Bentamapimod

(Contd. from page 7) be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.
<ul> <li>Department issuing SDS: Environment protection department.</li> <li>Contact: -</li> <li>Date of previous version 09/07/2022</li> <li>Date of preparation 10/23/2024</li> <li>Abbreviations and acronyms:</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transportation</li> <li>IATA: International Air Transport Association</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>NFPA: National Fire Protection Association (USA)</li> <li>HMIS: Hazardous Materials Identification System (USA)</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>VPVB: very Persistent and very Bioaccumulative</li> <li>NIOSH: National Institute for Occupational Safety</li> </ul>
OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute toxicity - oral 4: Acute toxicity – Category 4
Skin irritation 2: Skin corrosion/irritation – Category 2  • * Data compared to the previous version altered.  us