

Printing date 01/19/2023

Revision date 01/19/2023

Page 1/8

1 Identification

- Product identifier
- · Trade name: Bentazepam
- Article number: 27748
- CAS Number: 29462-18-8
- EC number: 608-362-7
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Cayman Chemical Co.
 1180 E. Ellsworth Rd.
 Ann Arbor, MI 48108
 USA
- · Information department: Product safety department

Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· Classification of the substance or mixture



Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

- · Label elements
- GHS label elements

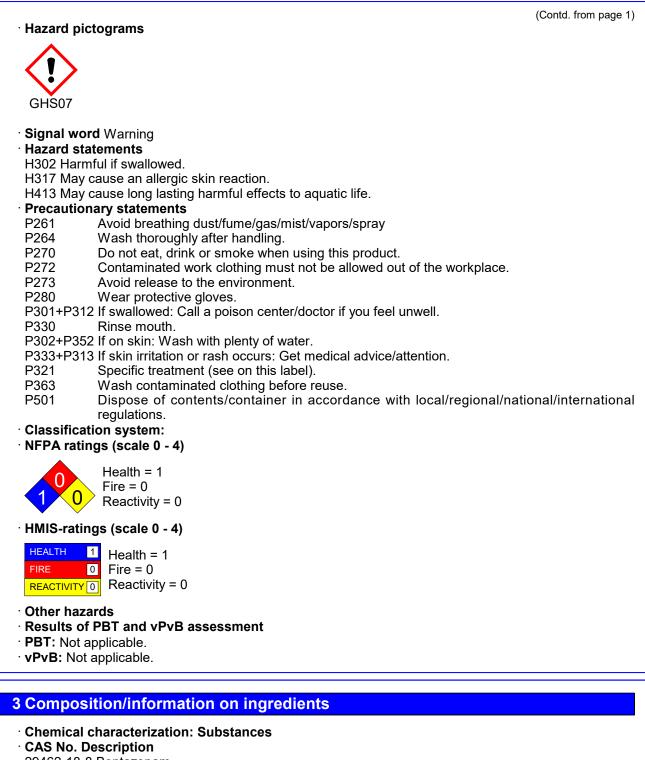
The substance is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

Printing date 01/19/2023

Revision date 01/19/2023

Trade name: Bentazepam



- 29462-18-8 Bentazepam
- · Identification number(s)
- EC number: 608-362-7

(Contd. on page 3)

Printing date 01/19/2023

Revision date 01/19/2023

(Contd. from page 2)

Trade name: Bentazepam

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 and to be sure call for a doctor.

- 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.
- · Information for 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: No special measures required.

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: Pick up mechanically.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- **PAC-2:** Substance is not listed.
- · PAC-3: Substance is not listed.

7 Handling and storage

· Handling:

- Precautions for safe handling
- No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition.
- Take precautionary measures against static discharge.re.

(Contd. on page 4)

US

Printing date 01/19/2023

Revision date 01/19/2023

Trade name: Bentazepam

(Contd. from page 3)

- · 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: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · 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
- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- Wash hands before breaks and at the end of we
- Breathing equipment: Not required.
- 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.

• Eye protection: Not required.

9 Physical and chemical properties

General Information		
Appearance:		
Form:	Solid	
Color:	According to product specification	
Odor:	Characteristic	
Structural Formula	C17H16N2OS	
Molecular Weight	296.4 g/mol	
Odor threshold:	Not determined.	

US

Printing date 01/19/2023

Revision date 01/19/2023

Trade name: Bentazepam

	(Contd. from page 4		
· pH-value:	Not applicable.		
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.		
· Flash point:	Not applicable.		
· Flammability (solid, gaseous):	Product is not flammable.		
· Decomposition temperature:	Not determined.		
· Auto igniting:	Not determined.		
· Danger of explosion:	Product does not present an explosion hazard.		
 Explosion limits: Lower: Upper: 	Not determined. Not determined.		
· Vapor pressure:	Not applicable.		
 Density: Relative density Vapor density Evaporation rate 	Not determined. Not determined. Not applicable. Not applicable.		
 Solubility in / Miscibility with Water: 	Not determined.		
· Partition coefficient (n-octanol/water): Not determined.			
 Viscosity: Dynamic: Kinematic: SOLUBILITY 	Not applicable. Not applicable. DMF: 15mg/mL; DMSO: 15mg/mL; DMSO:PBS (pH 7.2) (1: 3): 0.25mg/mL		
· Other information	No further relevant information available.		

10 Stability and reactivity

· Reactivity No further relevant information available.

- · 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
- · Hazardous decomposition products:
- carbon dioxide; carbon monoxide; nitrogen oxides; sulfur oxides

11 Toxicological information

· RTECS Number DL8230000

(Contd. on page 6)

US -

Printing date 01/19/2023

Revision date 01/19/2023

Trade name: Bentazepam

Information on toxic Acute toxicity: LD/LC50 values that Oral LD50 LD50	are relevant for classification: 980 mg/kg (mouse)	
Oral LD50		
	980 ma/ka (mouse)	
LD50	soo mg/kg (mouse)	
	2 g/kg (rat)	
Intraperitoneal L	D50 630 mg/kg (mouse)	
Additional toxicologi Carcinogenic catego	ng effect. ization possible through skin contact. i cal information:	
	blogy Program) Substance is not listed. bnal Safety & Health Administration) Substance is not listed.	
Toxicity Aquatic toxicity: No f Persistence and deg Behavior in environn Bioaccumulative pot Mobility in soil No fu Additional ecologica General notes: Water hazard class 1	further relevant information available. radability No further relevant information available. nental systems: cential No further relevant information available. rther relevant information available.	sewag

- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation:

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

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information · UN-Number · DOT, IMDG, IATA (Contd. on page 7) US

Printing date 01/19/2023

Revision date 01/19/2023

Trade name: Bentazepam

		(Contd. from page 6
 UN proper shipping name DOT, IMDG, IATA 	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	not regulated	
 Packing group DOT, IMDG, IATA 	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
 Transport in bulk according to Anne MARPOL73/78 and the IBC Code 	x II of 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.
- · Proposition 65
- 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 be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of preparation / last revision 01/19/2023

(Contd. on page 8)

⁻ US

Printing date 01/19/2023

Revision date 01/19/2023

Trade name: Bentazepam

 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation 	(Contd. from page 7)
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4	