

Printing date 08/21/2024

Revision date 08/21/2024

Page 1/9

· Product identifier		
• Trade name: <u>Pyridabe</u> • Synonym BAS 300 4-chloro-2-(1,1-dimethy Damanlin GWN 1715 NC 129	n ethyl)-5-[[[4-(1,1-dimethylethyl)phenyl]methyl]thio]-3(2H)-pyridazinone	
 Article number: 25821 CAS Number: 96489-71-3 ELINCS Number: 405-700-3 Index number: 613-149-00-7 Application of the sub This product is for researching 	stance / the mixture rch use - Not for human or veterinary diagnostic or therapeutic use.	
• Details of the supplier • Manufacturer/Supplie Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA	of the safety data sheet :	
· Emergency telephone	imes: +1 (734) 971-3335 9300	
2 Hazard(s) identific	ation	
· Classification of the s	ibstance or mixture	
GHS06 Skull	nd crossbones	
Acute Toxicity - Oral 3 Acute Toxicity - Inhalati	H301 Toxic if swallowed. n 3 H331 Toxic if inhaled. nment	

Printing date 08/21/2024

Revision date 08/21/2024

Trade name: Pyridaben

Aquatic Ch	ronic 1 H410 Very toxic to aquatic life with	(Contd. from page
:		
Label elen		
GHS label	nce is classified and labeled according to the Globall	V Hormonized System (CHS)
Hazard pic	e	y hannonized System (GHS).
\wedge	AL AL	
	\checkmark	
GHS06	GHS09	
Signal wo	rd Danger	
Hazard sta		
	1 Toxic if swallowed or if inhaled.	
H410	Very toxic to aquatic life with long lasting effects.	
-	ary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P271	Use only outdoors or in a well-ventilated area.	
P273	Avoid release to the environment.	
) If swallowed: Immediately call a poison center/docto	Dr.
P321 P330	Specific treatment (see on this label). Rinse mouth.	
) IF INHALED: Remove person to fresh air and keep	comfortable for breathing
P311	Call a poison center/doctor.	connonable for breathing.
P391	Collect spillage.	
	B Store in a well-ventilated place. Keep container tight	tly closed.
P405	Store locked up.	,
P501	Dispose of contents/container in accordance with	th local/regional/national/internation
	regulations.	
	ion system:	
NFPA ratin	igs (scale 0 - 4)	
	Health = 4	
	Fire = 0	
4	Reactivity = 0	
HMIS-ratir	gs (scale 0 - 4)	
HEALTH	³ Health = 3	
	Fire = 0	
REACTIVITY		
Other haz		
	PBT and vPvB assessment	
PBT: Not a	••	
vPvB: Not	аррисаріе.	

· Chemical characterization: Substances

- CAS No. Description 96489-71-3 Pyridaben

(Contd. on page 3)

US

Printing date 08/21/2024

Revision date 08/21/2024

(Contd. from page 2)

Trade name: Pyridaben

- Identification number(s)
- · ELINCS Number: 405-700-3
- · Index number: 613-149-00-7

4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation: Supply fresh air or oxygen; call for 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. Then consult a doctor.
 - After swallowing: Do not induce vomiting; immediately call for medical help.
 - · 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: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- 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.

(Contd. on page 4)

US -

Printing date 08/21/2024

Revision date 08/21/2024

Trade name: Pyridaben

· PAC-3: Substance is not listed.

(Contd. from page 3)

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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

- Additional information about design of technical systems: No further data; see section 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:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

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:

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.

(Contd. on page 5)

US

Printing date 08/21/2024

Revision date 08/21/2024

Trade name: Pyridaben

(Contd. from page 4)

9 Physical and chemical properties				
· Information on basic physical and chemical properties				
· General Information				
· Appearance: Form:	Solid			
Color:	Not determined.			
· Odor:	Characteristic			
· Structural Formula	C19H25CIN2OS			
• Molecular Weight	364.9 g/mol			
· Odor threshold:	Not determined.			
· pH-value:	Not applicable.			
· Change in condition				
Melting point/Melting range:	Undetermined.			
Boiling point/Boiling range:	Undetermined.			
· Flash point:	Not applicable.			
· Flammability:	Product is not flammable.			
 Decomposition temperature: 	Not determined.			
· Ignition temperature:	Not determined.			
· Danger of explosion:	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
· Vapor pressure:	Not applicable.			
· Density:	Not determined.			
Relative density	Not determined.			
Vapor density	Not applicable.			
· Evaporation rate	Not applicable.			
 Solubility in / Miscibility with 				
Water:	Not determined.			
· Partition coefficient (n-octanol/water)	Not determined.			
· Viscosity:				
Dynamic:	Not applicable.			
Kinematic:	Not applicable.			
SOLUBILITY	Chloroform: Slightly soluble			
· 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.

(Contd. on page 6)

Printing date 08/21/2024

Revision date 08/21/2024

Trade name: Pyridaben

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

Oral LD50

· LD/LC50 values that are relevant for classification:

205 mg/kg (mouse) 570 mg/kg (rat)

Intraperitoneal LD50 58,100 µg/kg (rat)

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

· 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.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- 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.

(Contd. on page 7)

(Contd. from page 5)

US —

Printing date 08/21/2024

Revision date 08/21/2024

(Contd. from page 6)

Trade name: Pyridaben

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

UN-Number	
DOT, IMDG, IATA	UN2811
UN proper shipping name DOT IMDG IATA	Toxic solids, organic, n.o.s. (Pyridaben) TOXIC SOLID, ORGANIC, N.O.S. (Pyridaben) Toxic solid, organic, n.o.s. (Pyridaben)
Transport hazard class(es)	
DOT	
TOXIC 6	
Class Label	6.1 Toxic substances 6.1
IMDG	
Class Label	6.1 Toxic substances6.1
ΙΑΤΑ	
Class	6.1 Toxic substances
Label	6.1
Packing group DOT, IMDG, IATA	II
Environmental hazards: Marine pollutant:	Environmentally hazardous substance, solid Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Toxic substances 60 F-A,S-A B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

Printing date 08/21/2024

Revision date 08/21/2024

Trade name: Pyridaben

On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg
500 g Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
UN 2811 TOXIC SOLID, ORGANIC, N.O.S (PYRIDABEN), 6.1, II, ENVIRONMENTALLY HAZARDOUS

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.

(Contd. on page 9)

US

Printing date 08/21/2024

Revision date 08/21/2024

Trade name: Pyridaben

	(Contd. from page 8)
 Department issuing SDS: Environment protection department. 	
· Contact: -	
 Date of preparation / last revision 08/21/2024 / - 	
· Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
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 3: Acute toxicity – Category 3	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
** Data compared to the previous version altered.	
	US