

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/30/2024

Revision date 07/30/2024

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1 Identification

- · Product identifier
- · Trade name: Bromocriptine-13C-d3
- · Synonym

(6aR,9R)-5-bromo-N-((2R,5S,10aS,10bS)-10b-hydroxy-5-isobutyl-2-isopropyl-3,6-dioxooctahydro-8H-oxazolo[3,2-a]pyrrolo[2,1-c]pyrazin-2-yl)-7-(methyl-13C-d3)-4,6,6a,7,8,9-hexahydroindolo[4,3-fg] quinoline-9-carboxamide CB-154-13C-d3

Article number: 26669
 Application of the substance / the mixture
 This product is for 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 sub	stance or r	nixture
GHS08 Health h	azard	
Toxic to Reproduction 2	H361-H3	362 Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.
GHS09 Environr	nent	
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.
GHS07		
Acute Toxicity - Oral 4		

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Trade name: Bromocriptine-13C-d3 (Contd. from page 1) Acute Toxicity - Inhalation 4 H332 Harmful if inhaled. · Label elements · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS07 GHS08 GHS09 · Signal word Warning · Hazard statements H302+H332 Harmful if swallowed or if inhaled. H361-H362 Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children. Very toxic to aquatic life with long lasting effects. H410 · Precautionary statements P201 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. P202 Do not breathe dusts or mists. P260 Avoid contact during pregnancy/while nursing. P263 P264 Wash thoroughly after handling. Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271 Avoid release to the environment. P273 Wear protective gloves/protective clothing/eve protection/face protection. P280 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P330 Rinse mouth. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice/attention. Collect spillage. P391 P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 0Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2FIRE 0 Fire = 0REACTIVITY 0 Reactivity = 0· Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

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Trade name: Bromocriptine-13C-d3

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- Bromocriptine-13C-d3

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: Generally the product does not irritate the skin.
- 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: 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.

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Trade name: Bromocriptine-13C-d3

· PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- **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

• 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.

Wash hands before breaks and at the end of work.

· 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.

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Trade name: Bromocriptine-13C-d3

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Information on basic physical and chemical properties General Information Appearance: Form: Solid Color: Not determined. Odor: Characteristic Structural Formula C31[13C]H37D3BrN505 Molecular Weight 658.6 g/mol Odor threshold: Not determined. • Ddr threshold: Not applicable. • Change in condition Melting point/Melting range: Undetermined. PI-value: • PI-value: Not applicable. • Change in condition range: Undetermined. * Boiling point/Boiling range: Undetermined. • Flash point: Not applicable. • Flash point: Not determined. • Jonger of explosion: Product is not flammable. • Decomposition temperature: Not determined. • Jonger of explosion: Product does not present an explosion hazard. • Explosion limits: Lower: Lower: Not determined. • Vapor density Not determined. • Vapor density Not determined. • Vapor density Not determined. <t< th=""><th>9 Physical and chemical prope</th><th colspan="5">9 Physical and chemical properties</th></t<>	9 Physical and chemical prope	9 Physical and chemical properties				
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• Other information No further relevant information available.	SOLUBILITY	Chloroform: 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.

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Trade name: Bromocriptine-13C-d3

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- 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.

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Trade name: Bromocriptine-13C-d3

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

· UN-Number · DOT, IMDG, IATA	UN3077
UN proper shipping name DOT, IATA IMDG	Environmentally hazardous substance, solid, n.o. (Bromocriptine-13C-d3) ENVIRONMENTALLY HAZARDOUS SUBSTANC SOLID, N.O.S. (Bromocriptine-13C-d3)
Transport hazard class(es)	
DOT	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles9
Packing group DOT, IMDG, IATA	111
Environmental hazards: Marine pollutant: Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances ar articles
Hazard identification number (Kemler code): EMS Number: Stowage Category	
Stowage Code	SW23 When transported in BK3 bulk container, se 7.6.2.12 and 7.7.3.9.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
MARPOL73/78 and the IBC Code Transport/Additional information:	Not applicable.
MARPOL73/78 and the IBC Code	Not applicable. On passenger aircraft/rail: No limit

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Trade name: Bromocriptine-13C-d3

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 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5 kg Code: E1
	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
·IATA	
· Remarks:	When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (BROMOCRIPTINE 13C-D3), 9, III

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 07/30/2024 / -

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 Abbreviations and acronyms: 	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
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	
Toxic to Reproduction 2: Reproductive toxicity – Category 2	
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.	
Buta compared to the previous version altered.	US
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