

Safety data sheet according to 1907/2006/EC, Article 31

134500

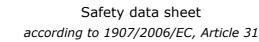
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Revision: 01.03.2011 Printing date: 07.07.2016

•	Product identifier
	Trade name: (D-Ala²,N-Me-Phe⁴,methionin(O)-ol⁵)-Enkephalin trifluoroacetate salt
	Article number: new: 4018038 old: H-8270
	CAS Number: 64854-64-4
•	Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the preparation Laboratory chemicals
•	Details of the supplier of the safety data sheet
	Manufacturer/Supplier: Bachem AG Hauptstrasse 144 CH-4416 Bubendorf Switzerland E-mail msds@bachem.com Tel +41 58 595 2021 Fax +41 58 595 2040
	Further information obtainable from: Department: Marketing
	Emergency telephone number: +41 44 251 51 51 (Tox Info Suisse)
2 ⊦	lazards identification
•	Classification of the substance or mixture
	Classification according to Regulation (EC) No 1272/2008 Void
	Label elements
	Labelling according to Regulation (EC) No 1272/2008 Void
	Signal word
	Void
	Hazard statements Void
•	Other hazards
	Results of PBT and vPvB assessment PBT:
	PBT. Not applicable.
•	vPvB:
	Not applicable.

- Chemical characterization: Substances
- *CAS No.* **Description** (D-Ala²,N-Me-Phe⁴,methionin(O)-ol⁵)-Enkephalin Identification number(s)
- · EINECS Number:
- RTECS Number:





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04 First aid measures	(Contd. of page
General information:	
No special measures required. • After inhalation:	
Supply fresh air; consult doctor in case of complaints.	
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:	
Call a doctor immediately.	
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.	

- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 Special hazards arising from the substance or mixture
- No further relevant information available.
- Advice for firefighters
- Protective equipment:
- No special measures required.

06 Accidental release measures

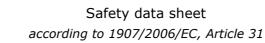
- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:
 - No special measures required.
- Methods and material for containment and cleaning up: Pick up mechanically.

07 Handling and storage

- · Handling:
- Precautions for safe handling Prevent formation of dust.
- Information about fire and explosion protection:
- No special measures required.
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:
- Store in dry conditions.
- Recommended storage temperature: -20 +/- 5 °C
- Specific end use(s)
- No further relevant information available.

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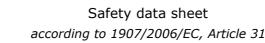
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	thionin(O)-ol⁵)-Enkephalin trifluoroacetate salt				
	(Contd. of page 2)				
8 Exposure controls/personal	protection				
Ingredients with limit values that requ	uire monitoring at the workplace:				
Not required.Additional information:					
The lists valid during the making were us	ed as basis.				
Personal protective equipment:					
General protective and hygienic mea	asures:				
	The usual precautionary measures are to be adhered to when handling chemicals.				
Respiratory protection:	Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained				
respiratory protective device.	use respiratory liner device. In case of intensive of longer exposure use sen-contained				
Use suitable respiratory protective device	e in case of insufficient ventilation.				
 Protection of hands: 					
	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.				
-	e to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. lection of the glove material on consideration of the penetration times, rates of diffusion and the degradation				
Protective gloves					
Material of gloves					
-	not only depend on the material, but also on further marks of quality and varies from				
manufacturer to manufacturer.Penetration time of glove material					
C C	found out by the manufacturer of the protective gloves and has to be observed.				
Eye protection:					
Safety glasses					
General Information	rties				
General Information Appearance:					
General Information Appearance: Form:	Powder				
General Information Appearance: Form: Colour:	Powder White				
General Information Appearance: Form: Colour: Odour:	Powder				
General Information Appearance: Form: Colour: Odour: Odour threshold:	Powder White Nearly odourless Not determined.				
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight	Powder White Nearly odourless				
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition	Powder White Nearly odourless Not determined. 603,7400 g/mol				
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range:	Powder White Nearly odourless Not determined. 603,7400 g/mol Undetermined.				
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range:	Powder White Nearly odourless Not determined. 603,7400 g/mol Undetermined. Undetermined.				
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	Powder White Nearly odourless Not determined. 603,7400 g/mol Undetermined. Undetermined. Not applicable.				
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General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flash point: Flammability (solid, gaseous): Ignition temperature:	Powder White Nearly odourless Not determined. 603,7400 g/mol Undetermined. Undetermined. Not applicable.				
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9 Physical and chemical prope General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure:	Powder White Nearly odourless Not determined. 603,7400 g/mol Undetermined. Undetermined. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not determined. Not determined.				
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure: Density:	Powder White Nearly odourless Not determined. 603,7400 g/mol Undetermined. Undetermined. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.				
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General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure: Density: Solubility in / Miscibility with water:	Powder White Nearly odourless Not determined. 603,7400 g/mol Undetermined. Undetermined. Undetermined. Not applicable. Not applicable. Not determined. Not determined.				

(Contd. on page 4)





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PRODUCT: (D-Ala²,N-Me-Phe⁴,methionin(O)-ol⁵)-Enkephalin trifluoroacetate salt

10 Stability and reactivity

- 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:
- No further relevant information available.
- Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity: No further relevant information available.
- · Primary irritant effect:
- · on the skin:
- No further relevant information available.
- on the eye:
- No further relevant information available. • Sensitization:
- No sensitizing effects known.
- Additional toxicological information:
- The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

- Acquatic toxicity:
- No further relevant information available.
- Persistence and degradability
- No further relevant information available. • Behaviour in environmental systems:
- Bioaccumulative potential
- No further relevant information available.Mobility in soil
- No further relevant information available.
- Additional ecological information:
- General notes:
 Not known to be hazardous to water.
- Results of PBT and vPvB assessment
- PBT:
- FDI.
- Not applicable. vPvB:
- VEVD. Not applicable.
- Other adverse effects
- No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Waste disposal key: 18 02 06
- Uncleaned packaging:
- Recommendation:
 - Disposal must be made according to official regulations.





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(Contd. of page 4) (Contd. of p			Printing date: 07.07
14 Transport information ADR/RID class: - IMDG Class: - IMDG Class: - Environmental hazards: - Not applicable. - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code - Not applicable. - 15 Regulatory information - • Chemical safety assessment: - • A Chemical Safety Assessment: - • Department issuing MSDS: -	PRODUCT :	(D-Ala²,N-Me-Phe⁴,methionin(O)-ol⁵)-Enkephalin trifl	luoroacetate salt
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CAS: Chemical Abstracts Service (division of the American Chemical Society)	IATA' In	rnational Air Transport Association	
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RTECS: Registry of Toxic Effects of Chemical Substances	ICAO: Ir EINECS	ernational Civil Aviation Organisation European Inventory of Existing Commercial Chemical Substances	

* Data compared to the previous version altered.