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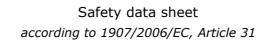
BACHEM

Revision: 01.07.2016 Printing date: 07.07.2016

•	Product identifier
	Trade name:
	(D-Pen²,D-Pen⁵)-Enkephalin trifluoroacetate salt
	Article number:
	new: 4008254 old: H-2905
•	CAS Number:
	88373-73-3
•	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
	+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:
	Not applicable. vPvB:
	vrvb. Not applicable.

- Chemical characterization: Substances
- CAS No.
- **Description** (D-Pen²,D-Pen⁵)-Enkephalin trifluoroacetate salt 88373-73-3
- Identification number(s)
- EC number:
- RTECS Number:
- YV9461100





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04 First aid measures	
Description of first aid measures	
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.	

05 Firefighting measures

- · Extinguishing media
- 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.

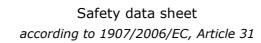
06 Accidental release measures

- 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.
- Reference to other sections

07 Handling and storage

- Handling:
- Precautions for safe handling Prevent formation of dust.
- Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · 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:
 -15 °C
- Specific end use(s)
- No further relevant information available.





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8 Exposure con	trols/personal protection
Control paramet	ers
 Ingredients with 	limit values that require monitoring at the workplace:
CAS No. Not required.	Designation of material
Additional inform	
The lists valid duri	ng the making were used as basis.
Exposure control	ls
Personal protect	ive equipment:
General protecti	ve and hygienic measures:
The usual precaut	onary measures are to be adhered to when handling chemicals.
 Respiratory prot 	ection:
In case of brief exp respiratory protect	posure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained ive device.
Use suitable respi	atory protective device in case of insufficient ventilation.
 Protection of har 	nds:
•	has to be impermeable and resistant to the product/ the substance/ the preparation.
•	ts no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. we material on consideration of the penetration times, rates of diffusion and the degradation
 Material of glove 	s
•	e suitable gloves does not only depend on the material, but also on further marks of quality and varies from
 Penetration time 	of glove material
	rough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:	

09 Physical and chemical properties

General Information		
Appearance:		
Form:	Powder	
Colour:	White	
Odour:	Nearly odourless	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Self-igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not determined.	
Density:	Not determined.	
Solubility in / Miscibility with		
water:	at 25 °C 5,00 g/l	
Viscosity:		



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

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PRODUCT :	(D-Pen²,D-Pen⁵)-Enkephalin trifluoroacetate salt	
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Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other informa	Ation No further relevant information available.	

10 Stability and reactivity

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

11 Toxicological information

- · Information on toxicological effects
- 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 sensitising effects known.
- Additional toxicological information: The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

- Toxicity
- Aquatic 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:
- Not applicable.
- vPvB:
- Not applicable.
- Other adverse effects
- No further relevant information available.



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

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RODUCT : (D-Pen ² ,D-Pen ⁵)-Enkeph	alin trifluoroacetate salt	
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13 Disposal considerations		
Waste treatment methods		
 Waste disposal key: 		
18 02 06		
Uncleaned packaging:		
Recommendation:		
Disposal must be made according to official	regulations.	
4 Transport information		
UN-Number		
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
 UN proper shipping name ADR 	Void	
IMDG	Void	
IATA	Void	
	Void	
 Transport hazard class(es) 		
Class	Void	
IMDG		
Class	Void	
ΙΑΤΑ		
Class	Void	
Packing group		
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
 Environmental hazards: 		
Not applicable.		
 Transport in bulk according to Annex I Not applicable. 	l of MARPOL73/78 and the IBC Code	
Transport/Additional information:		

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

- · National regulations:
- · Waterhazard class:
- Generally not hazardous for water.Self-assessment
- Chemical safety assessment:
- A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Department: Marketing

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

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PRODUCT : (D-Pen ² ,D-Pen ⁵)-Enkephalin trifluoroacetate salt
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Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
RTECS: Registry of Toxic Effects of Chemical Substances
WGK: Wassergefährdungsklasse
vPvB: very Persistent and very Bioaccumulative