

1827800

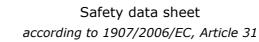
BACHEM

Revision: 13.05.2016 Printing date: 07.07.2016

•	Product identifier
•	Trade name:
	(D-Pen²,p-chloro-Phe⁴,D-Pen⁵)-Enkephalin
	Article number:
	new: 4017158 old: H-8875
	CAS Number:
	122507-47-5
	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
	ax ++1 50 595 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:
	Not applicable.
	vPvB:
	Not applicable.

- Chemical characterization: Substances
- CAS No.Description122507-47-5(D-Pen²,p-chloro-Phe⁴,D-Pen⁵)-Enkephalin• Identification number(s)
- · EC number:
- RTECS Number:





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### **PRODUCT:** (D-Pen<sup>2</sup>,p-chloro-Phe<sup>4</sup>,D-Pen<sup>5</sup>)-Enkephalin (Contd. of page 1) 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.

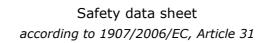
#### 06 Accidental release measures

- 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</li>
- Specific end use(s)
- No further relevant information available





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	(Contd. of page
08 Exposure con	trols/personal protection
Control paramet	ers
<ul> <li>Ingredients with</li> </ul>	imit values that require monitoring at the workplace:
CAS No.	Designation of material
Not required.	
<ul> <li>Additional inform</li> </ul>	ation:
The lists valid duri	g the making were used as basis.
Exposure contro	ls
<ul> <li>Personal protect</li> </ul>	ive equipment:
<ul> <li>General protectivity</li> </ul>	ve and hygienic measures:
The usual precaut	onary measures are to be adhered to when handling chemicals.
<ul> <li>Respiratory prot</li> </ul>	ection:
In case of brief exp respiratory protect	osure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained ve device.
Use suitable respir	atory protective device in case of insufficient ventilation.
<ul> <li>Protection of har</li> </ul>	lds:
The glove material	has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glo	ts no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture ve material on consideration of the penetration times, rates of diffusion and the degradation
Protective gloves	
Material of glove     The selection of the	
The selection of the manufacturer to m	e suitable gloves does not only depend on the material, but also on further marks of quality and varies from anufacturer.
<ul> <li>Penetration time</li> </ul>	of glove material
The exact break the	rough time has to be found out by the manufacturer of the protective gloves and has to be observed.
<ul> <li>Eye protection:</li> </ul>	

### 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 1,00 g/l	
Viscosity:		



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

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Revision: 13.05.2016 Printing date: 07.07.2016

PRODUCT : (D-Pen <sup>2</sup> ,p-chlor	(D-Pen²,p-chloro-Phe⁴,D-Pen⁵)-Enkephalin		
		(Contd. of page 3)	
Dynamic:	Not determined.		
Kinematic:	Not determined.		
Other information	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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12 05 2016

		Revision: 13.0 Printing date: 07.0
PRODUCT : (D-Pen <sup>2</sup> ,p-chloro-Phe <sup>4</sup> ,D-	Pen⁵)-Enkephalin	
		(Contd. of page 4)
13 Disposal considerations		
Waste treatment methods		
<ul> <li>Waste disposal key: 18 02 06</li> </ul>		
18 02 00		
<ul> <li>Uncleaned packaging:</li> </ul>		
Recommendation:		
Disposal must be made according to official	regulations.	
14 Transport information		
UN-Number		
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
UN proper shipping name		
ADR	Void	
IMDG	Void	
	Void	
<ul> <li>Transport hazard class(es)</li> </ul>		
Class	Void	
IMDG	Volu	
Class	Void	
IATA		
Class	Void	
Packing group		
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
<ul> <li>Environmental hazards:</li> </ul>		
<ul><li>Not applicable.</li><li>Transport in bulk according to Annex II Not applicable.</li></ul>	of MARPOL73/78 and the IBC Code	
<ul> <li>Transport/Additional information: Not applicable.</li> </ul>		

## 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

(Contd. on page 6)



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

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<b>PRODUCT</b> :	(D-Pen²,p-chloro-Phe⁴,D-Pen⁵)-Enkephalin
	(Contd. of page 5)
<ul> <li>Abbreviat</li> </ul>	ions and acronyms:
ADR: Acco	ord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriage of	f Dangerous Goods by Road)
RID: Règle	ment international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
Internation	al Transport of Dangerous Goods by Rail)
IMDG: Inte	rnational Maritime Code for Dangerous Goods
IATA: Inter	national Air Transport Association
IATA-DGR	: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: Inter	rnational Civil Aviation Organisation
ICAO-TI: T	echnical Instructions by the "International Civil Aviation Organisation" (ICAO)
EINECS: E	uropean Inventory of Existing Commercial Chemical Substances
CAS: Cher	nical Abstracts Service (division of the American Chemical Society)
RTECS: R	egistry of Toxic Effects of Chemical Substances
WGK: Was	ssergefährdungsklasse
vPvB: very	Persistent and very Bioaccumulative

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