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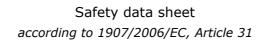
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Revision: 05.06.2013 Printing date: 07.07.2016

•	Product identifier
•	Trade name: Biotinyl-ε-aminocaproyl-D-Phe-Pro-Arg-chloromethylketone
•	Article number: new: 4027521 old: N-1565
•	CAS Number: 131104-10-4
	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	Hazards 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.Description131104-10-4Biotinyl-ε-aminocaproyl-D-Phe-Pro-Arg-chloromethylketone• Identification number(s)
- EC number:
- RTECS Number:
- GB





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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:	
<ul> <li>Most important symptoms and effects, both acute and delayed</li> </ul>	
No further relevant information available.	
<ul> <li>Indication of any immediate medical attention and special treatment needed</li> </ul>	
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.

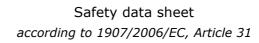
#### 06 Accidental release measures

- 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: -20 +/- 5 °C
- Specific end use(s)
- No further relevant information available.





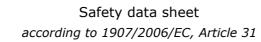
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8 Exposure con	trols/personal protection
Control parameter	ers
<ul> <li>Ingredients with</li> </ul>	limit values that require monitoring at the workplace:
CAS No.	Designation of material
Not required.	<b>g</b>
Additional inform	ation:
The lists valid durir	ng 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 precauti	onary measures are to be adhered to when handling chemicals.
<ul> <li>Respiratory prote</li> </ul>	ection:
	posure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained
respiratory protecti	
	atory protective device in case of insufficient ventilation.
Protection of har	
•	has to be impermeable and resistant to the product/ the substance/ the preparation.
0	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
Protective gloves	we material of consideration of the penetration times, rates of diffusion and the degradation
<ul> <li>Material of glove</li> </ul>	s
•	e suitable gloves does not only depend on the material, but also on further marks of quality and varies from
manufacturer to ma	
<ul> <li>Penetration time</li> </ul>	of glove material
	rough time has to be found out by the manufacturer of the protective gloves and has to be observed.
<ul> <li>Eve protection:</li> </ul>	

# 09 Physical and chemical properties

Information on basic physical and chemical properties					
General Information					
Appearance:					
Form:	Powder				
Colour:	White				
Odour:	Nearly odourless				
Odour threshold:	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:					
Dynamic:	Not determined.				





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#### PRODUCT : Biotinyl-ε-aminocaproyl-D-Phe-Pro-Arg-chloromethylketone

Kinematic: Other information Not determined.

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 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

- 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.

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

1394600

Revision: 05.06.2013

RODUCT : Biotinyl-ε-aminocaproyl	D-Phe-Pro-Arg-chloromethylketone	
		(Contd. of page 4
3 Disposal considerations		
Waste treatment methods		
<ul> <li>Waste disposal key:</li> </ul>		
18 02 06		
Uncleaned packaging:		
Recommendation:		
Disposal must be made according to offic	al regulations.	
4 Transport information		
UN-Number		
ADR IMDG	Void Void	
IMDG IATA	Void	
<ul> <li>UN proper shipping name</li> </ul>	Vold	
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
<ul> <li>Transport hazard class(es)</li> <li>ADR</li> </ul>		
Class	Void	
IMDG		
Class	Void	
ΙΑΤΑ		
Class	Void	
Packing group		
ADR IMDG	Void	
IATA	Void Void	
<ul> <li>Environmental hazards:</li> </ul>	Void	
<ul> <li>Environmental hazards.</li> <li>Not applicable.</li> </ul>		
<ul> <li>Transport in bulk according to Annex Not applicable.</li> </ul>	II 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.

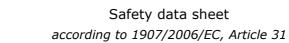
### 16 Other information

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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PRODUCT : Biotinyl-ɛ-aminocaproyl-D-Phe-Pro-Arg-chlorom	ethylketone
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<ul> <li>Abbreviations and acronyms:</li> </ul>	
ADR: Accord européen sur le transport des marchandises dangereuse Carriage of Dangerous Goods by Road)	s par Route (European Agreement concerning the International
RID: Règlement international concernant le transport des marchandise International Transport of Dangerous Goods by Rail)	a dangereuses par chemin de fer (Regulations Concerning the
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
IATA-DGR: Dangerous Goods Regulations by the "International Air Tra	nsport Association" (IATA)
ICAO: International Civil Aviation Organisation	
ICAO-TI: Technical Instructions by the "International Civil Aviation Orga	nisation" (ICAO)
EINECS: European Inventory of Existing Commercial Chemical Substa	nces
CAS: Chemical Abstracts Service (division of the American Chemical S	ociety)
RTECS: Registry of Toxic Effects of Chemical Substances	
WGK: Wassergefährdungsklasse	
vPvB: very Persistent and very Bioaccumulative	