

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

435900

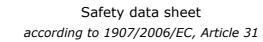
Revision: 08.08.2011 Printing date: 07.07.2016

JT	Identification of the substance/mixture and of the company/undertaking	
•	Product identifier	
	Trade name:	
	Boc-β-tBu-D-Ala-OH	
•	Article number: new: 4028346 old: A-4210	
•	CAS Number: 112695-98-4	
	112093-90-4	
•	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	
•		
	Void	
•	- g	
	Void Hazard statements	
	Void	
	Other hazards	
	Results of PBT and vPvB assessment	
•	PBT: Not applicable.	
	vPvB:	
	Not applicable.	
	Composition/information on ingredients	
)3_		
	Chemical characterization: Substances	

- EC number:
- -
- RTECS Number:

GB





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#### **PRODUCT** : Boc-<sub>β</sub>-tBu-D-Ala-OH (Contd. of page 1) 04 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 · 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:

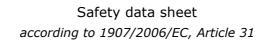
- No special measures required.
- Methods and material for containment and cleaning up: Pick up mechanically.

## 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:
- RT
- Specific end use(s)
- No further relevant information available.

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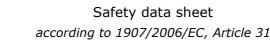
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PRODUCT : Boc-	3-tBu-D-Ala-OH
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08 Exposure con	rols/personal protection
<ul> <li>Ingredients with</li> </ul>	mit values that require monitoring at the workplace:
CAS No. Not required.	Designation of material
<ul> <li>Personal protect</li> <li>General protecting The usual precaution</li> <li>Respiratory protect</li> <li>Respiratory protect</li> <li>Use suitable respiratory protect</li> <li>Protection of hard The glove material</li> <li>Due to missing tess</li> <li>Selection of the glove</li> <li>Material of glove</li> <li>The selection of the manufacturer to manufacturer to manufacturer</li> </ul>	<ul> <li>we equipment:</li> <li>e and hygienic measures:</li> <li>onary measures are to be adhered to when handling chemicals.</li> <li>cction:</li> <li>osure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained ve device.</li> <li>atory protective device in case of insufficient ventilation.</li> <li>ds:</li> <li>has to be impermeable and resistant to the product/ the substance/ the preparation.</li> <li>s no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</li> <li>we material on consideration of the penetration times, rates of diffusion and the degradation</li> <li>s suitable gloves does not only depend on the material, but also on further marks of quality and varies from inufacturer.</li> </ul>

General Information		
Appearance:		
Form:	Powder	
-onn. Colour:	White	
Odour:		
	Nearly odourless	
Odour threshold:	Not determined.	
Molecular Weight	245,3200 g/mol	
Change in condition		
Melting point/Melting range:	102 °C	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
gnition 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:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	



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#### PRODUCT : Boc-β-tBu-D-Ala-OH

#### 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.
- Hazardous 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
- 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.

#### 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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## **PRODUCT** : Boc-<sub>β</sub>-tBu-D-Ala-OH (Contd. of page 4) 14 Transport information ADR/RID class: IMDG Class: ICAO/IATA Class: · Environmental hazards: Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 15 Regulatory information 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 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 ICAO: International Civil Aviation Organisation 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 · \* Data compared to the previous version altered.