

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

1459500

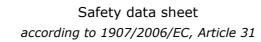
Revision: 10.10.2013 Printing date: 07.07.2016

•	Product identifier
•	Trade name:
	H-β-tBu-DL-Ala-OH
	Article number:
	new: 4005681 old: F-1325
	CAS Number:
	106247-35-2
	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)
	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
	Not applicable. vPvB:
	Not applicable.
	••
	Composition/information on ingredients
3_0	omposition/information on indredients

- Identification number(s)EC number:
- RTECS Number:

GB





1459500

BACHEM

Revision: 10.10.2013 Printing date: 07.07.2016

(Contd. of page 1)

PRODUCT : H-β-tBu-DL-Ala-OH

O4 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.

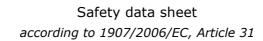
06 Accidental release measures

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





1459500

BACHEM

	(Contd. of page 2)		
08 Exposure cont	rols/personal protection		
Control parameter	°S		
 Ingredients with limit values that require monitoring at the workplace: 			
CAS No. Not required.	Designation of material		
·			
Additional informa			
The lists valid during	the making were used as basis.		
Exposure controls	i		
 Personal protectivity 	e equipment:		
 General protective 	e and hygienic measures:		
	nary measures are to be adhered to when handling chemicals.		
 Respiratory protection 			
In case of brief expo respiratory protectiv	sure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained e device.		
Use suitable respira	tory protective device in case of insufficient ventilation.		
 Protection of hand 	ls:		
The glove material h	as to be impermeable and resistant to the product/ the substance/ the preparation.		
•	no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. e material on consideration of the penetration times, rates of diffusion and the degradation		
 Material of gloves 			
	suitable gloves does not only depend on the material, but also on further marks of quality and varies from		
 Penetration time c 	if glove material		
The exact break thre	bugh time has to be found out by the manufacturer of the protective gloves and has to be observed.		
 Eve protection: 			

09 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:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	





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

1459500

Revision: 10.10.2013 Printing date: 07.07.2016

(Contd. of page 3)

PRODUCT : H-β-tBu-DL-Ala-OH

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
- 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.



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

1459500

Revision: 10.10.2013 Printing date: 07.07.2016

(Contd. of page 4)

PRODUCT : H-β-tBu-DL-Ala-OH

13 Disposal considerations

- Waste treatment methods
- Waste disposal key:
 18 02 06

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

UN-Number		
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
 UN proper shipping name 		
ADR	Void	
IMDG	Void	
IATA	Void	
 Transport hazard class(es) 		
Class	Void	
IMDG		
Class	Void	
ΙΑΤΑ		
Class	Void	
 Packing group 		
ADR	Void	
IMDG	Void	
IATA	Void	
 Environmental hazards: Not applicable. Transport in bulk according to Anne Not applicable. 	ex II of MARPOL73/78 and the IBC Code	

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.

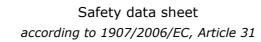
16 Other information

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)





1459500

BACHEM

Revision: 10.10.2013 Printing date: 07.07.2016

	(Contd. of page 5)
• Ał	obreviations and acronyms:
	DR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
	rrriage of Dangerous Goods by Road)
	D: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
Int	ernational Transport of Dangerous Goods by Rail)
IM	DG: International Maritime Code for Dangerous Goods
IA	TA: International Air Transport Association
IA	TA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
IC	AO: International Civil Aviation Organisation
IC	AO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
EI	NECS: European Inventory of Existing Commercial Chemical Substances
CA	AS: Chemical Abstracts Service (division of the American Chemical Society)
R	FECS: Registry of Toxic Effects of Chemical Substances
W	GK: Wassergefährdungsklasse
vF	VB: very Persistent and very Bioaccumulative