

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

123600

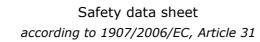
Revision: 23.02.2011 Printing date: 07.07.2016

•	Product identifier	
•	Trade name:	
	Fmoc-D-Ser(BzI)-OH	
•	Article number:	
	new: 4006812 old: B-1205	
•	CAS Number: 122889-11-6	
•	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	
•	Signal word Void	
•	Hazard statements	
	Void	
	Other hazards	
	Results of PBT and vPvB assessment PBT:	
•	Not applicable.	
•	vPvB:	
	Not applicable.	

- CAS No.
- *Description* Fmoc-D-Ser(Bzl)-OH 122889-11-6
- Identification number(s)
- · EINECS Number:
- RTECS Number:

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PRODUCT : Fmoc-D-Ser(Bzl)-OH (Contd. of page 1) 04 First aid measures · General information: No special measures required. · 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.

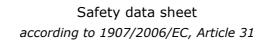
07 Handling and storage

- 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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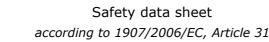
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RODUCT : Fmoc-D-Ser(Bzl)-OH						
08 Exposure controls/personal p	(Contd. of page 2)					
 Ingredients with limit values that requ 						
Not required.	ane monitoring at the workplace.					
Additional information:						
The lists valid during the making were use	ed as basis.					
 Personal protective equipment: General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained 						
					respiratory protective device.	
					Use suitable respiratory protective device	in case of insufficient ventilation.
					 Protection of hands: 	
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation						
					Protective gloves	
Material of gloves						
-	not only depend on the material, but also on further marks of quality and varies from					
manufacturer to manufacturer.						
 Penetration time of glove material The exact break through time has to be for 	bund out by the manufacturer of the protective gloves and has to be observed.					
Eye protection:						
Safety glasses						
09 Physical and chemical proper	rties					
9 Physical and chemical proper General Information Appearance:	rties					
General Information Appearance:	rties Powder					
General Information Appearance:						
General Information Appearance: Form: Colour: Odour:	Powder					
General Information Appearance: Form: Colour: Odour: Odour threshold:	Powder White Nearly odourless Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight	Powder W hite Nearly odourless					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight	Powder White Nearly odourless Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition	Powder White Nearly odourless Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range:	Powder White Nearly odourless Not determined. 417,4600 g/mol					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not applicable.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not determined. Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not applicable.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not determined. Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not determined. Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure: Density:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not determined. Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure: Density: Solubility in / Miscibility with	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure: Density: Solubility in / Miscibility with water:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure: Density: Solubility in / Miscibility with water: Viscosity:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not determined.					
General Information Appearance: Form: Colour: Odour: Odour threshold: Molecular Weight Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure: Density: Solubility in / Miscibility with water:	Powder White Nearly odourless Not determined. 417,4600 g/mol 143 °C Undetermined. Not applicable. Not applicable. Not determined. Not determined.					

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PRODUCT : Fmoc-D-Ser(Bzl)-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.
- Dangerous 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
- 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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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	
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 consti	tute a guarantee for any specific product features
and shall not establish a legally valid contractual relationship.	
Department issuing MSDS:	
Department: Marketing	
Abbreviations and acronyms:	ute (European Agreement concerning the Internetion
	ute (European Agreement concerning the internation
ADR: Accord européen sur le transport des marchandises dangereuses par Rol Carriage of Dangerous Goods by Road)	
Carriage of Dangerous Goods by Road)	euses par chemin de fer (Regulations Concerning th
Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises danger	euses par chemin de fer (Regulations Concerning th
Carriage of Dangerous Goods by Road)	euses par chemin de fer (Regulations Concerning th
Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises danger International Transport of Dangerous Goods by Rail)	euses par chemin de fer (Regulations Concerning th
Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises danger International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods	euses par chemin de fer (Regulations Concerning th
Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises danger International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association	euses par chemin de fer (Regulations Concerning th

- RTECS: Registry of Toxic Effects of Chemical Substances
- * Data compared to the previous version altered.