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

1426200

Revision: 02.08.2013 Printing date: 07.07.2016

01 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- Trade name: Fmoc-α-Me-D-Leu-OH
- Article number:

new: 4066676 old: B-4080

 CAS Number: 1231709-23-1

- · 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)

02 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.

03 Composition/information on ingredients

· Chemical characterization: Substances

CAS No. Description

1231709-23-1 Fmoc-α-Me-D-Leu-OH

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

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





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08 Exposure controls/personal protection

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

CAS No. Designation of material

Not required.

· Additional information:

The lists valid during the making were used as basis.

- · Exposure controls
- · 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

The selection of the suitable gloves does 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 found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses

09 Physical and chemical properties Information on basic physical and chemical properties

| intormation on basic physical and che | emicai 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. | |
| | | (Contd. on page |

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| 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 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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13 Disposal considerations

- · Waste treatment methods
- Waste disposal key: 18 02 06
- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations

14 Transport information

• UN-Number

ADR Void

IMDG Void

IATA Void

• UN proper shipping name

ADR Void

IMDG Void

IMDG Void

· Transport hazard class(es)

ADR

Class Void

IMDG

Class Void

IATA

Class Void

· Packing group

ADR Void
IMDG Void
IATA Void

- · Environmental hazards:
- Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- Transport/Additional information: Not applicable.

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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· 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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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