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

1052800

Revision: 20.06.2012 Printing date: 07.07.2016

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

- · Product identifier
- · Trade name:

N-1-Fmoc-1,4-diaminobutane · HCI

Article number:

new: 4027909 old: Q-2420

 CAS Number: 117048-49-4

- · 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)

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

117048-49-4 N-1-Fmoc-1,4-diaminobutane · HCl

- Identification number(s)
- · EC number:

· RTECS Number:

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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:
 - +5 +/- 3 °C
- Specific end use(s)

No further relevant information available.

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08 Exposure controls/personal protection

• 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.

- · 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

9 Physical and chemical prope	
General Information	
Appearance:	
Form:	Powder
Colour:	White
Odour:	Nearly odourless
Odour threshold:	Not determined.
Molecular Weight	346,8600 g/mol
Change in condition	
Melting point/Melting range:	122 ℃
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.
Kinematic:	Not determined.
Other information	No further relevant information available.

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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
 - No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential

 No further relevant information
 - 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: N-1-Fmoc-1,4-diaminobutane · HCl

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.