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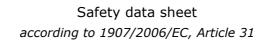
BACHEM

Revision: 16.11.2015 Printing date: 07.07.2016

 Trade name: Froc-L-1.2.3.4-tetrahydroisoquinoline-3-carboxylic acid Article number: new: 4015637 old: B-1920 CAS Number: 136030-33-6 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 Haupstrasse 144 CH-4416 Bubendort Switzerland Ersergency telephone number: +4144 595 2021 Further information obtainable from: Department: Marketing Errergency telephone number: +4144 251 51 51 (Tox Into Susse) 	•	Product identifier
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Not applicable. • vPvB:		
• vPvB:		
Not applicable.		Not applicable.

- Chemical characterization: Substances
- CAS No.
- *Description* Fmoc-L-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid 136030-33-6
- Identification number(s)
- EC number:
- RTECS Number:
- GB





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	(Contd. of page 1
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.

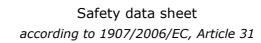
06 Accidental release measures

- 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: 2-8°C
- Specific end use(s)
- No further relevant information available.





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	(Contd. of page 2
8 Exposure co	ntrols/personal protection
Control parame	iters
 Ingredients with 	n limit values that require monitoring at the workplace:
CAS No. Not required.	Designation of material
Additional infor	
The lists valid du	ring the making were used as basis.
Exposure contr	ols
•	ctive equipment:
 General protection 	tive and hygienic measures:
The usual precau	itionary measures are to be adhered to when handling chemicals.
 Respiratory pro 	tection:
In case of brief e respiratory prote	xposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained ctive device.
Use suitable resp	iratory protective device in case of insufficient ventilation.
 Protection of has 	
	al has to be impermeable and resistant to the product/ the substance/ the preparation.
	ests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. love material on consideration of the penetration times, rates of diffusion and the degradation
Material of glove	
0	he suitable gloves does not only depend on the material, but also on further marks of quality and varies from
 Penetration tim 	e 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: 	

09 Physical and chemical properties

General Information		
Appearance:		
Form:	Powder	
Colour:	White	
Odour:	Nearly odourless	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	163 °C	
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.	



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

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	Revision: 16 Printing date: 07
PRODUCT : Fmoc-L-1,2,3,4-te	etrahydroisoquinoline-3-carboxylic acid
	(Contd. of page 3
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.
10 Stability and reactivity	
Reactivity	
Chemical stability	
Thermal decomposition / cond	litions to be avoided:
No decomposition if used accordin	
 Possibility of hazardous reaction 	ons
No dangerous reactions known.	
 Conditions to avoid 	
No further relevant information ava	ailable.
Incompatible materials:	ajjabla
 No further relevant information ava Hazardous decomposition pro- 	
No dangerous decomposition proc	
1 Toxicological information	n
 Information on toxicological eff Acute toxicity: 	
No further relevant information ava	ailable
Primary irritant effect:	
on the skin:	
No further relevant information ava	ailable.
on the eye:	
No further relevant information ava	ailable.
 Sensitization: 	
No sensitising effects known.	
Additional toxicological information	
	assification according to the latest version of the EU lists.
.2 Ecological information	
Toxicity	
Aquatic toxicity:	
No further relevant information ava	ailable.
Persistence and degradability	
No further relevant information available	ailable.
 Behaviour in environmental sy 	stems:
Bioaccumulative potential	
No further relevant information ava	ailable.
No further relevant information ava Mobility in soil	
No further relevant information ava Mobility in soil No further relevant information ava	ailable.
 No further relevant information avainability in soil No further relevant information avainability and the solution of the so	ailable.
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Other adverse effects No further relevant information available.



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

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		Printing date: 07.07
PRODUCT : Fmoc-L-1,2,3,4-tetrahydro	isoquinoline-3-carboxylic acid	
		(Contd. of page 4)
13 Disposal considerations		
Waste treatment methods		
 Waste disposal key: 		
18 02 06		
Uncleaned packaging:		
Recommendation:		
Disposal must be made according to official	egulations.	
14 Transport information		
UN-Number		
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
 UN proper shipping name 		
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
 Transport hazard class(es) ADR 		
Class	Void	
IMDG		
Class	Void	
ΙΑΤΑ		
Class	Void	
Packing group		
ADR	Void	
IMDG	Void	
ΙΑΤΑ	Void	
Environmental hazards:		
Not applicable.	of MARROL 73/78 and the IRC Code	
 Transport in bulk according to Annex II Not applicable. 	UT WARE OLI SHI O ANU THE IDO OOUP	
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

(Contd. on page 6)



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

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	(Contd. of page 5)
• 4	Abbreviations and acronyms:
A	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internationa
C	Carriage of Dangerous Goods by Road)
F	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
li	International Transport of Dangerous Goods by Rail)
I	IMDG: International Maritime Code for Dangerous Goods
L	IATA: International Air Transport Association
L	IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
10	ICAO: International Civil Aviation Organisation
10	ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
E	EINECS: European Inventory of Existing Commercial Chemical Substances
C	CAS: Chemical Abstracts Service (division of the American Chemical Society)
F	RTECS: Registry of Toxic Effects of Chemical Substances
v	WGK: Wassergefährdungsklasse
v	vPvB: very Persistent and very Bioaccumulative