

22601

 Revision: 23.02.2011  
 Printing date: 07.07.2016

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

- Product identifier
- Trade name:  
μ-Conotoxin GIIIA
- Article number:  
new: 4030525      old: H-2738
- CAS Number:  
129129-65-3
- 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



GHS06

Acute Tox. 3 - H301 Toxic if swallowed.  
 Acute Tox. 3 - H311 Toxic in contact with skin.  
 Acute Tox. 3 - H331 Toxic if inhaled.

- Label elements
- Labelling according to Regulation (EC) No 1272/2008



GHS06

- Signal word  
Danger
- Hazard statements  
H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H331 Toxic if inhaled.
- Precautionary statements  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501a Dispose of contents/container in accordance with local/regional/ national/international regulations.

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- Other hazards
- Results of PBT and vPvB assessment
- PBT:  
Not applicable.
- vPvB:  
Not applicable.

### 03 Composition/information on ingredients

- Chemical characterization: Substances
- | <i><b>CAS No.</b></i> | <i><b>Description</b></i> |
|-----------------------|---------------------------|
| 129129-65-3           | $\mu$ -Conotoxin GIIIA    |
- Identification number(s)
  - EINECS Number:  
-
  - RTECS Number:  
-

### 04 First aid measures

- General information:  
Involve doctor immediately.  
Immediately remove any clothing soiled by the product.  
Remove breathing equipment only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:  
Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.  
Call a doctor immediately.
- After skin contact:  
Immediately wash with water and soap and rinse thoroughly.  
Seek immediate medical advice.
- After eye contact:  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:  
Do not induce vomiting; call for medical help 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:  
CO<sub>2</sub>, 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:  
Mouth respiratory protective device.

### 06 Accidental release measures

- Personal precautions, protective equipment and emergency procedures  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/ aerosol.  
Wear protective clothing.
- Environmental precautions:  
Suppress gases/fumes/haze with water spray.

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- Methods and material for containment and cleaning up:  
Dispose contaminated material as waste according to item 13.

## 07 Handling and storage

- Handling:
- Precautions for safe handling  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of dust.
- Information about fire - and explosion protection:  
Keep respiratory protective device available.
- 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:  
Keep container tightly sealed.  
Store in dry conditions.
- Recommended storage temperature:  
-20 +/- 5 °C
- Specific end use(s)  
No further relevant information available.

## 08 Exposure controls/personal protection

- Ingredients with limit values that require monitoring at the workplace:  
Not required.
- Additional information:  
The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- 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.
- 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

### General Information

**Appearance:**
**Form:** Powder

**Colour:** White

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

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<b>Odour:</b>	Nearly odourless
<b>Odour threshold:</b>	Not determined.
<b>Molecular Weight</b>	2.609,0800 g/mol
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Not determined.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	
	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Other information</b>	No further relevant information available.

### 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.

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## 12 Ecological information

- 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.

## 13 Disposal considerations

- Waste treatment methods
- Waste disposal key:  
18 02 05
- Uncleaned packaging:
- Recommendation:  
Disposal must be made according to official regulations.

## 14 Transport information

**ADR/RID class:** 6.1 (T2)  
**Danger code (Kemler):** 60  
**UN-Number:** 2811  
**Packaging group:** III  
**Hazard label:** 6.1



**UN proper shipping name:** 2811 TOXIC SOLID, ORGANIC, N.O.S.  
**Excepted quantities (EQ):** E1  
**Limited quantities (LQ)** LQ9  
**Transport category** 2  
**Tunnel restriction code** E  
**IMDG Class:** 6.1  
**UN Number:** 2811  
**Label** 6.1



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

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<b>Packaging group:</b>	III
<b>EMS Number:</b>	F-A,S-A
<b>Proper shipping name:</b>	TOXIC SOLID, ORGANIC, N.O.S.
<b>ICAO/IATA Class:</b>	6.1
<b>UN/ID Number:</b>	2811
<b>Label</b>	



<b>Packaging group:</b>	III
<b>Proper shipping name:</b>	TOXIC SOLID, ORGANIC, N.O.S.

- UN "Model Regulation":  
UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III
- Environmental hazards:  
Not applicable.
- Special precautions for user  
Warning: Toxic substances.
- 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 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
- \* Data compared to the previous version altered.