

123800

Revision: 23.02.2011  
Printing date: 14.06.2014

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

- Product identifier
- Trade name:  
Charybdotoxin
- Article number:  
new: 4030492      old: H-9595
- CAS Number:  
95751-30-7
- 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 61 935 2323  
Fax +41 61 935 2325
- Further information obtainable from:  
Department: Marketing
- Emergency telephone number:  
+41 44 251 51 51 (Swiss Toxicological Information Centre, CH-Zurich)

## 02 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.  
Acute Tox. 4 - H312 Harmful in contact with skin.  
Acute Tox. 4 - H332 Harmful if inhaled.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn Harmful

R 20/21/22  
Harmful by inhalation, in contact with skin and if swallowed.

- Information concerning particular hazards for human and environment:  
Not applicable.
- Label elements
- Labelling according to Regulation (EC) No 1272/2008



GHS07

- Signal word  
Warning
- Hazard statements

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- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful 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.
  - P271 Use only outdoors or in a well-ventilated area.
  - P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
  - P501a Dispose of contents/container in accordance with local/regional/ national/international regulations.
- **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>
95751-30-7	Charybdotoxin

- **Identification number(s)**
- **EINECS Number:**  
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- **RTECS Number:**  
FL7535000

### 04 First aid measures

- **Description of first aid measures**
- **General information:**
  - Involve doctor immediately.
  - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
  - Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
  - Call a doctor immediately.
- **After skin contact:**
  - Seek immediate medical advice.
- **After eye contact:**
  - Rinse opened eye for several minutes under running water.
- **After swallowing:**
  - Call for 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:**
  - 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.

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## 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.
- 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.
- 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:  
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

- Control parameters
- Ingredients with limit values that require monitoring at the workplace:  
Not required.
- Additional information:  
The lists valid during the making were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:  
Keep away from foodstuffs, beverages and feed.  
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

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- 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

#### General Information

##### Appearance:

<b>Form:</b>	Powder
<b>Colour:</b>	White
<b>Odour:</b>	Nearly odourless
<b>Odour threshold:</b>	Not determined.
<b>Molecular Weight</b>	4.295,9500 g/mol

#### Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

<b>Flash point:</b>	Not applicable.
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<b>Flammability (solid, gaseous):</b>	Not applicable.
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#### Ignition temperature:

<b>Decomposition temperature:</b>	Not determined.
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<b>Self-igniting:</b>	Not determined.
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<b>Danger of explosion:</b>	Not determined.
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#### Explosion limits:

<b>Lower:</b>	Not determined.
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<b>Upper:</b>	Not determined.
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<b>Vapour pressure:</b>	Not determined.
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<b>Density:</b>	Not determined.
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#### Solubility in / Miscibility with

<b>water:</b>	at 25 °C	1,00 g/l
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#### Viscosity:

<b>Dynamic:</b>	Not determined.
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<b>Kinematic:</b>	Not determined.
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<b>Other information</b>	No further relevant information available.
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## 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.
- Dangerous decomposition products:  
No dangerous decomposition products known.

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## 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.

## 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.

## 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

- Land transport ADR/RID (cross-border)  
**ADR/RID class:** -
- Maritime transport IMDG:  
**IMDG Class:** -
- Air transport ICAO-TI and IATA-DGR:  
**ICAO/IATA Class:** -
- Environmental hazards:  
Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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Not applicable.

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## 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  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)
- \* Data compared to the previous version altered.