

Cayman Chemical Company
 1180 E. Ellsworth Rd.
 Ann Arbor, MI 48108



Section 1. Identification of the Substance/Mixture and of the

1.1 Product Code: 14608

Product Name: Iberiotoxin

Synonyms: 4-L-aspartic acid-6-L-aspartic acid-8-L-serine-9-L-valine-18-L-lysine-19-L-aspartic acid-21-L-phenylalanine-22-glycine-23-L-valine-24-L-aspartic acid-30-glycine-37-L-glutamine-charybdotoxin;

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

Section 2. Hazards Identification

GHS Classification	Placard	Key word	GHS hazard phrase
Acute Toxicity: Inhalation, Category 2	Skull and crossbones	Danger	Fatal if inhaled
Acute Toxicity: Oral, Category 2	Skull and crossbones	Danger	Fatal if swallowed
Acute Toxicity: Skin, Category 1	Skull and crossbones	Danger	Fatal in contact with skin

GHS Hazard Phrases:
 H330: Fatal if inhaled.
 H300: Fatal if swallowed.
 H310: Fatal in contact with skin.

GHS Precaution Phrases:
 P260: Do not breathe {dust/fume/gas/mist/vapours/spray}.
 P284: {In case of inadequate ventilation, }wear respiratory protection { }.
 P264: Wash {hands} thoroughly after handling.
 P262: Do not get in eyes, on skin, or on clothing.
 P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
 P361+364: Take off immediately all contaminated clothing and wash it before reuse.

GHS Response Phrases:
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P310: Immediately call a {POISON CENTER/doctor/...}.
 P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P330: Rinse mouth.
 P361: Take off immediately all contaminated clothing.
 P302+350: IF ON SKIN: Gently wash with plenty of soap and water.
 P321: Specific treatment {see ... on this label}.

GHS Storage and Disposal Phrases:
 Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and Symptoms:
 Fatal if inhaled.
 Fatal if swallowed.
 Fatal in contact with skin.
 Material may be irritating to the mucous membranes and upper respiratory tract.
 May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Target Organs: No data available.

Medical Conditions Generally Aggravated By No data available.

Exposure:

Section 3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	EC#	Risk Phrases
1. Iberiotoxin	129203-60-7	100.0 %	NA	R26/27/28

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

- 4.1.1 **In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
- 4.1.2 **In Case of Skin Contact:** Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
- 4.1.3 **In Case of Eye Contact:** Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.
- 4.1.4 **In Case of Ingestion:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2 Important Symptoms and Effects, Both Acute and Delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed: No data available.

Section 5. Fire Fighting Measures

- 5.1 **Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Use water spray to cool fire-exposed containers.
- Unsuitable Extinguishing Media:** A solid water stream may be inefficient.
- 5.2 **Flammable Properties and Hazards:** No data available.
- Flash Pt:** No data.
- Autoignition Pt:** No data available.
- Explosive Limits:** LEL: No data. UEL: No data.
- Hazardous Combustion Products:** No data available.
- 5.3 **Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

- 6.1 **Protective Precautions, Protective Equipment and Emergency Procedures:** Avoid raising and breathing dust, and provide adequate ventilation.
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
- 6.2 **Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.
- 6.3 **Methods and Material For Containment and Cleaning Up:** Contain spill and collect, as appropriate.
Transfer to a chemical waste container for disposal in accordance with local regulations.

Formula: C179H274N50O55S7

Molecular Weight: 4230.90

Section 10. Stability and Reactivity

- 10.1 Reactivity:** No data available.
- 10.2 Stability:** Unstable [] Stable [X]
- 10.3 Stability Note(s):** Stable if stored in accordance with information listed on the product insert.
- 10.4 Conditions To Avoid:** No data available.
- 10.3 Polymerization:** Will occur [] Will not occur [X]
- 10.5 Incompatibility - Materials To Avoid:** No data available.
- 10.6 Hazardous Decomposition Or Byproducts:** No data available.

Section 11. Toxicological Information

- 11.1 Information on Toxicological Effects:** The toxicological effects of this product have not been thoroughly studied.
- Chronic Toxicological Effects:** No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Iberiotoxin	129203-60-7	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

- 12.1 Toxicity:** Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal Considerations

- 13.1 Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT)

- DOT Proper Shipping Name** Toxic solid, organic, n.o.s. (Iberiotoxin)
- DOT Hazard Class:** 6.1
- DOT Hazard Label:** POISON
- UN/NA Number:** 2811
- Packing Group:** II

14.1 LAND TRANSPORT (European ADR/RID)

- ADR/RID Shipping Name** Toxic solid, organic, n.o.s. (Iberiotoxin)
- UN Number:** 2811
- Hazard Class:** 6.1 - POISON
- Packing Group:** II

14.3 AIR TRANSPORT (ICAO/IATA)

- ICAO/IATA Shipping Name** Toxic solid, organic, n.o.s. (Iberiotoxin)
- UN Number:** 2811
- Hazard Class:** 6.1 - POISON
- Packing Group:** II
- IATA Classification:** 6.1

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

European Community Hazard Symbol codes T+: Very Toxic

European Community Risk and Safety Phrases

- R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed.
- S22 - Do not breathe dust.
- S24/25 - Avoid contact with skin and eyes.
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)
- S53 - Avoid exposure - obtain special instructions before use.

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Iberiotoxin	129203-60-7	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Iberiotoxin	129203-60-7	No	No	No	No

Regulatory Information Statement: This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

Section 16. Other Information

Revision Date: 07/10/2013

Company Policy or Disclaimer

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required