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MATERIAL SAFETY DATA SHEET

Date Revised: December 12, 2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	α-bungarotoxin
Catalog Number:	00010/00010-1
Unit Size:	5mg/1mg
Manufacturer/Supplier:	5 5

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008[CLP] None Classification according to Directive 1999/45/EC None

Labeling according to Regulation (EC) No 1272/2008[CLP] Hazard pictogram



Signal word Danger Hazard statements H302 - Harmful if swallowed H311 - Toxic in contact with skin H317 - May cause an allergic skin reaction Precautionary statements P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312 - Call a POISON CENTER or doctor/physician if you feel unwell

HMIS Classification

Health hazard: 3 Flammability: 0 Physical hazards: 0 **NFPA Rating** Health hazard: 3 Fire: 0 Reactivity Hazard: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
α- bungarotoxin	11032-79- 4	234-266-6	-	50-100%	-	-



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4. FIRST- AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Week off with even and planty of water

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water. **Special protective equipment for firefighters** Wear self contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. **Methods and materials for containment and cleaning up** Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance. **Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place. Store at -20°C.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Substanceα-bungarotoxinCAS no.11032-79-4Control parameterNo information available

Personal protective equipment

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Chemical Name	lpha-bungarotoxin	
Appearance	White Solid	
Odor	No information available	
Odor threshold	No information available	
рН	No information available	
Melting point/freezing point	No information available	
Boiling point	No information available	
Flash point	No information available	
Evaporate rate	No information available	
Flammability	No information available	
Explosive limits	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Solubility	Soluble in Water	
Partition coefficient:n-octanol/water	No information available	
Auto-ignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	

9. PHYSICAL AND CHEMICAL PROPERTIES

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10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
No data available
Conditions to avoid
Heat, flames and sparks.
Materials to avoid
No data available
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx),
Sulfur oxides
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity					
Oral LD	50 None				
Inhalati	Inhalation LC50 150ug/kg (inhalation, rat/mouse)				
Dermal	Dermal LD50 210ug/kg (dermal, rat/rabbit)				
Other in	Other information on acute toxicity no data available				
Skin corrosion/	irritation no data available				
Serious eye dar	nage/eye irritationno data available				
Respiratory or s	skin sensitization no data available				
Germ cell mutag					
Carcinogenicity					
-	nent of this product present at levels greater than or equal to 0.1% is identified as				
	le or confirmed human carcinogen by IARC.				
	ponent of this product present at levels greater than or equal to 0.1% is identified as a				
v 1	tential carcinogen by ACGIH.				
	nent of this product present at levels greater than or equal to 0.1% is identified as a known				
•	rcinogen by NTP.				
	onent of this product present at levels greater than or equal to 0.1% is identified as a				
carcinogen or potential carcinogen by OSHA.					
Reproductive toxicity no data available					
Specific target organ toxicity - single exposure (Globally Harmonized System)					
Cardiovascular system, Respiratory system, Central nervous system					
Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available					
Aspiration hazard					
no data available					
Potential health effects					
Inhalation Harmful by inhalation.					
Ingestion	Harmful if swallowed				
Skin	Toxic in contact with skin.				
Eyes	May cause eye irritation.				
Additional Information					



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RTECS: EI6201600

12. ECOLOGICAL INFORMATION

ToxicityHighly ToxicPersistence and degradabilityno information availableBiodegradationno information availableMobility in soilno information availableResults of PBT and vPvB assessmentno information availableOther adverse effectsno information availableAdditional informationno information available

13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

14. TRANSPORT INFORMATION

IATA, IMDG, DOT(US)	This product is subject to the de minimis exceptions for dangerous goods / hazardous materials in accordance with the following regulations: IATA 2.6.10, ADR 3.5.1.4, and U.S. DOT 49 CFR 173.4b.
UN number 2811	
UN proper shipping name	Toxic solid, organic, n.o.s. (bungarotoxin)
Transport hazard class	6.1
Packing group III	
Environmental hazards	none
Special precaution for user	none

15. REGULATION INFORTMATION

US Federal Regulations

US Toxic Substances Control Act(TSCA): Not listed SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312 Hazards: No chemicals were found.

16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Prepared by: Regulatory Department Biotium Inc. Version no. 2

MSDS PS008EU



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Reason for revision

Application of CLP labeling and corresponding requirements

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.