

**SAFETY DATA SHEET**

Date: April 10, 2018

**1. PRODUCT AND COMPANY IDENTIFICATION****Product Name and Catalog Number:**

Bungarotoxin conjugate	Catalog Number
CF405S $\alpha$ -Bungarotoxin	00002
CF488A $\alpha$ -Bungarotoxin	00005
CF543 $\alpha$ -Bungarotoxin	00026
CF555 $\alpha$ -Bungarotoxin	00018
CF568 $\alpha$ -Bungarotoxin	00006
CF594 $\alpha$ -Bungarotoxin	00007
CF633 $\alpha$ -Bungarotoxin	00009
CF640R $\alpha$ -Bungarotoxin	00004
CF680R $\alpha$ -Bungarotoxin	00003

**Unit Size:** 100 ug, 0.5 mg**Manufacturer/Supplier:** Biotium, Inc.

46117 Landing Parkway, Fremont, CA 94538, USA

Phone: 1-510-265-1027, Fax: 1-510-265-1352

Web: <http://www.biotium.com>

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.

**2. HAZARDS IDENTIFICATION****GHS Classification**

**Signal word** None  
**Health hazards** None  
**Physical hazards** None  
**Hazard statements** None  
**Precautionary statements** None  
**WHMIS classification** None  
**GHS hazard pictogram** None

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

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

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

**Hazard pictogram** None  
**Signal word** None  
**Hazard statements** None  
**Precautionary statements** None

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### 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
CF dyes $\alpha$ -Bungarotoxin	-	-	-	>99%	-	-

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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**

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.

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### 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.

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### 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.

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### 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**

None

**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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	CF dye $\alpha$ -Bungarotoxin
Appearance	Solid
Odor	No informationa available
Odor threshold	No informationa available
pH	No informationa available
Melting point/freezing point	No informationa available
Boiling point	No informationa available
Flash point	No informationa available
Evaporate rate	No informationa available
Flammability	No informationa available
Explosive limits	No informationa available
Vapor pressure	No informationa available
Vapor density	No informationa available
Relative density	No informationa available
Solubility	No informationa available
Partition coefficient:n-octanol/water	No informationa available
Auto-ignition temperature	No informationa available
Decomposition temperature	No informationa available
Viscosity	No informationa available
Explosive properties	No informationa available
Oxidizing properties	No informationa available

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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  
 Other decomposition products - No data available

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Oral LD50** None

**Inhalation LC50** None

**Dermal LD50** None

**Other information on acute toxicity** No data available

**Skin corrosion/irritation** No data available

**Serious eye damage/eye irritation** No data available

**Respiratory or skin sensitization** No data available

**Germ cell mutagenicity** No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component 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)**

No data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

**Additional Information**

RTECS: None

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## 12. ECOLOGICAL INFORMATION

**Toxicity** No information available

**Persistence and degradability** No information available

**Biodegradation** No information available

**Mobility in soil** No information available

**Results of PBT and vPvB assessment** No information available

**Other adverse effects** No information available

**Additional information** No information available

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

**IATA, IMDG, DOT (US), TDG** Not dangerous goods during transportation

**UN number** None

**UN proper shipping name** None

**Transport hazard class** None

**Packing group** None

**Environmental hazards** None

**Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code** None

**Special precaution for user** None

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## 15. REGULATION INFORMATION

**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.

**WHMIS Hazard Class**      None

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## 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008  
Refer to section 2 and section 3

Prepared by:      Regulatory Department  
                         Biotium Inc.

Version no.      3

Revision date (Initials)      4/10/18 (LR)

Reason for revision      Application of WHMIS labeling requirements

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