

## MATERIAL SAFETY DATA SHEET

Date Revised: August 25, 2012

## 1. PRODUCT AND COMPANY INFORMATION

**Product Name:** Cholera Toxin Subunit B, CF640R conjugate  
**Catalog Number:** 00073  
**Unit Size:** 100ug  
**Manufacturer/Supplier:** Biotium, Inc.  
3159 Corporate Place, Hayward, CA 94545, USA  
Phone: 1-510-265-1027, Fax: 1-510-265-1352  
Web: <http://www.biotium.com>

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS

## Hazardous / Non-hazardous Components

Chemical Name	CAS-No.	EINECS-No.	Weight%	Classification
Cholera Toxin Subunit B, CF640R conjugate	-	-	100%	-

## 3. HAZARDS IDENTIFICATION

The product is classified and labeled in accordance with Directive 1272/2008/EC

**Classification** The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## Indication of danger:

HMS Health 0  
Flammability 0  
Reactivity 0

## R-phrases)

None

## 4. FIRST AID MEASURES

**Skin contact:** Wash off with plenty of water  
**Eye contact:** Rinse thoroughly with plenty of water  
**Ingestion:** Never give anything by mouth to an unconscious person  
**Inhalation:** Move to fresh air  
**Medical treatment:** Treat symptomatically

## 5. FIRE FIGHTING MEASURES

Use carbon dioxide, dry chemical extinguishers, foam extinguishers or water. An approved self-contained breathing apparatus and protective clothing are recommended.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Soak up spilled substance with inert absorbent material.

## 7. HANDLING AND STORAGE

Store at -20°C. Keep tightly closed

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure limits

Chemical name	EU OEL(TWA)	EUOEL(STEL)	EU Skin Notation	Austria OEL (MAK)	Belgium (TWA)	Denmark(TWA)	Finland OEL (TWA)
Cholera Toxin Subunit B, CF640R conjugate	-	-	-	-	-	-	-

Chemical name	France OEL (VME)	Germany OEL (TWA)	Ireland(TWA)	Italy OEL (TWA)	Netherlands OEL (MAC)	Spain OEL (TWA)	United Kingdom
Cholera Toxin Subunit B, CF640R conjugate	-	-	-	-	-	-	-

**ACGIH/OSHA Permissible Exposure Limit Data:** Not determined

**Engineering measures:** No special precautions required.

### Personal protective equipment

**Respiratory protection:** Use respirators and components tested and approved under appropriate government standards

**Hand protection:** Protective gloves

**Eye protection:** Safety glasses with side- shields

**Skin and body protection:** Lightweight protective clothing

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls:** No special environmental precautions required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Solid
<b>Odor:</b>	Not determined
<b>Solubility in Water:</b>	High
<b>Specific Gravity:</b>	Not determined
<b>pH:</b>	Not determined
<b>Boiling Point:</b>	Not determined
<b>Melting Point:</b>	Not determined
<b>Flash Point:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>Thermal Decomposition:</b>	No decomposition if used according to specifications
<b>Dangerous Products of Decomposition:</b>	Nature of decomposition product not known
<b>Polymerization:</b>	Hazardous polymerization does not occur
<b>Stability:</b>	Stable

## 11. TOXICOLOGICAL INFORMATION

<b>RTECS Number:</b>	None known
<b>Acute Toxicity:</b>	No information available
<b>Potential Health Hazards:</b>	
<b>Eyes</b>	May cause eye irritation
<b>Skin</b>	My be harmful if absorbed through skin

**Inhalation** May be harmful if inhaled  
**Ingestion** May be harmful if swallowed

**Carcinogenicity:** Not listed by NTP, IARC or OSHA  
**Mutagenicity:** No information available  
**Reproductive toxicity:** No information available  
**Sensitization:** No Information available

Cholera Toxin subunit B is reported to be non-toxic.

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity effects:** Contains no substances known to be hazardous to the environment or not degradable in waste  
Water treatment plants  
**Mobility:** No information available  
**Biodegradation:** No information available  
**Bioaccumulation:** No information available

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## 13. DISPOSAL CONSIDERATIONS

Consult local, state or national regulations for proper disposal.

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## 14. TRANSPORT INFORMATION

### DOT, IATA, IMDG

**Hazards Class:** Not classified as hazardous during transportation  
**Subsidiary Class:** No information available  
**Identification Number:** No information available  
**Packing Group:** Not classified  
**Proper Shipping Name (Technical Name):** Not classified as dangerous in the meaning of transport regulations

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## 15. REGULATIONS

### European Labeling in Accordance with EC Directives 1272/2008/EC

**Indication of danger**  
Not hazardous

**R-phrases(s)**  
None

**S-phrases(s)**  
None

### International Inventories

U.S. Federal Regulations  
SARA 313 This product is not regulated by SARA.  
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)  
This product does not contain HAPs.

U.S. State Regulations  
California Proposition 65  
This product does not contain chemicals listed under Proposition 65

WHMIS hazard class:  
Non-controlled

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## 16. OTHER INFORMATION

**Disclaimer:** 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.