

MATERIAL SAFETY DATA SHEET

Date Revised: August 25, 2012

1. PRODUCT AND COMPANY INFORMATION

Product Name: Cholera Toxin Subunit B, CF594 conjugate
Catalog Number: 00072
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, CF594 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, CF594 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, CF594 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

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

RTECS Number:	None known
Acute Toxicity:	No information available
Potential Health Hazards:	
Eyes	May cause eye irritation
Skin	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.

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

13. DISPOSAL CONSIDERATIONS

Consult local, state or national regulations for proper disposal.

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

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

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.