

3159 Corporate Place, Hayward, CA 94545 U.S.A.

Tel: 1-510-265-1027; Fax: 1-510-265-1352

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MATERIAL SAFETY DATA SHEET

Date Revised: August 25, 2012

1. PRODUCT AND COMPANY INFORMATION

Product Name: Cholera Toxin Subunit B, CF568conjugate

Catalog Number:00071Unit Size:100ugManufacturer/Supplier:Biotium, Inc.

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2. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous / Non-hazardous Components

Chemical Name	CAS-No.	EINECS-No.	Weight%	Classification
Cholera Toxin Subunit	-	-	100%	-
B, CF568 conjugate				

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:

HMIS Health 0

Flammability 0 Reactivity 0

R-phrase(s)

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: Wove to fresh air

Treat symptomatically

5. FIRE FIGHTING MEASURES

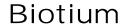
Use carbon dioxide, dry chemical extinguishers, foam extinguishers or water. An approved self-contained breathing apparatus and protective clothing are recommended.

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



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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, CF568							
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.	-	-	-	-	-	-	-
CF568conjugate							

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

Safety glasses with side-shields Eye protection: Skin and body protection: Lightweight protective clothing

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

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 Tocixity: 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

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Ingestion May be harmful if swallowed

Carcinogenicity: Not listed by NTP, IARC or OSHA

No information available Mutagenicity: Reproductice 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 No information available

Mobility: 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-phrase(s)

None

S-phrase(s)

None

International Inventories

U.S. Federal Regulations

This product is not regulated by SARA. SARA 313

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains 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

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potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.