

### Section 1. Product and Company Identification

**Product Name:** BioPlug ® CS  
**Product Code:** V-F-BST-BPLGC-12X01E  
**Effective Date:** April 2014

**Manufacturer Information:**

Biostim LLC  
 1550 East Old 210 Highway  
 Liberty, Missouri 64068  
 Information Phone: (816) 781-4250  
 Emergency Phone: Chemtrec (800) 424-9300

### Section 2. Ingredients and Hazards Identification

Hazardous Components		Occupational Exposure Limits			
Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent	Section 313
Bacterial Cultures	N/A	N/A	N/A	≤1	No
Proprietary	N/A	N/A	N/A	≤99	No

This product does not contain EPCRA Section 313 chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Lyophilized bacterial cultures.

**Potential Acute Health Effects:**

**Eyes:** This material may cause eye irritation.

**Skin:** Slight redness on hands and forearms, if individual has a history of dermal allergic reaction. Dermatitis and skin sensitization can develop after repeated and/or prolonged contact with skin.

Systematically toxic concentrations will probably not be absorbed through the skin in man. Organisms used are nonpathogenic but can cause infection when in contact with open wounds. These organisms are susceptible to commonly used antibiotics.

**Inhalation:** Can cause allergic type response in susceptible or hypersensitive individuals upon repeated or prolonged exposure.

### Section 3. Composition/Information on Ingredients

The composition of this material is a trade secret. Contains no other components or impurities which will influence the classification with regard to human and environmental risk assessment.

### Section 4. First Aid Measures

**Eye Contact:** Immediately flush with plenty of water for at least 15 minutes and have eyes examined and treated by medical personnel.

**Skin Contact:** Remove contaminated clothing and footwear. Wash material off the skin with plenty of soap and water. Wash clothing and footwear before reuse.

**Inhalation:** Remove victim to fresh air.

**Ingestion:** Drink water or milk to dilute. Induce vomiting only if advised by physician or poison control center. Call physician or poison control center.

### Section 5. Fire Fighting Measures

**Flash Point:** No data

**Flammability Limits:** Lower- no data

**Fire Fighting Media:** water spray, carbon dioxide, dry chemical

**Special Fire Fighting Procedures:** None

### Section 6. Accidental Release Measures

**Clean-up Procedures:**

**Spills and Leaks:** For small spills, flush to waste treatment sewer. For large spills, contain and collect for reuse. (Product is biodegradable)

### Section 7. Handling and Storage

**KEEP OUT OF REACH OF CHILDREN**

**Handling:** Prevent skin or eye contact. Avoid creating aerosol. Wash hands thoroughly with soap and water after use. People with autoimmune deficiencies should avoid contact with the product.

**Storage:** Store in a cool dry place

### Section 8. Exposure Control/Personal Protection

**Personal Protection:**

**TLV or suggested control value:** No TLV assigned to this mixture. Control of exposure to below the TLF for the ingredients will be sufficient. Minimize exposure with good hygiene practice. To maintain shelf life, avoid prolonged exposure to high temperatures and humidity. The ACGIH avoid prolonged exposure to high temperatures and humidity. The ACGIH TLV's shown in Section II are OSHA PEL's (Permissible Exposure Limits)

**Eyes:** Face shield recommended

**Hands:** Latex gloves for hygiene

**Respiratory:** None required for recommended use.  
 Avoid creating aerosol in poorly ventilated areas.  
**Other:** Eyewash station in work area

**Section 9. Physical and Chemical Properties**

<b>Odor</b>	Yeast like	<b>Vapor Pressure</b>	No data
<b>Color</b>	Tan-brown	<b>% Volatiles by Volume</b>	-
<b>Physical State</b>	Rigid gelatin, cylindrical in shape	<b>Specific Gravity (H<sub>2</sub>O=1)</b>	-
<b>pH</b>	6.5-8.5	<b>Solubility</b>	Moderate - contains viable bacteria pH:6.5-8.5
<b>Freezing Point</b>	-	<b>Boiling Point</b>	No data

**Section 10. Stability and Reactivity**

**Chemical Stability:** Stable under normal conditions  
**Hazardous Decomposition:** None  
**Hazardous Polymerization:** Will not occur  
**Incompatibility~ Materials to Avoid:** Strong acids or alkali compounds may inactivate product

**Section 11. Toxicological Information**

**Acute Eye Irritation:** N/A  
**Acute Skin Irritation:** N/A  
**Acute Dermal Toxicity:** N/A  
**Acute Inhalation Toxicity:** N/A  
**Carcinogenic Effects:** N/A

**Section 12. Ecological Information**

**Ecotoxicity:** Unknown  
**Environmental Fate:** Unknown

**Section 13. Disposal Considerations**

**Waste Disposal Method:** Disposal of this products residues must be in accordance with all local, state and federal requirements.

**Section 14. Transport Information**

**D.O.T. Classification:** Class 70  
**Shipping Name:** BioPlug® CS  
**Technical Shipping Name:** Bacteria, sewage or industrial waste treating, in dry or liquid carrier, with or without enzymes, NMFC 20400 Sub 2  
**Air transport ICAO-TI and IATA-DGR:** Not Regulated. Safe for transport by air.

**Section 15. Regulatory Information**

**Hazardous Material Information**

Health	0
Fire Hazard	0
Physical Hazard	0
Personal Protection	0

**Section 16. Other Information**

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