

# BioSphere Big Green HC

## SAFETY DATA SHEET

### I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

BioSphere AgriTech Solutions Inc.  
209 Strachan St.  
Port Hope, ON L1A 0E6

### I. PHYSICAL DATA

**PRODUCT NAME:** BioSphere Big Green HC  
**CHEMICAL NAME:** Soil Amendment  
**CHEMICAL FAMILY:** Fertilizer  
**FORMULA:** Trade Secret

**INFORMATION PHONE:** 1-647-381-3785

**EMERGENCY PHONE:** 1-647-381-3785

### II. HAZARDOUS IDENTIFICATION

**NFPA RATING (SCALE 0-4)** HEALTH=0 FLAMMABILITY = 0 REACTIVITY= 0

**EMERGENCY OVERVIEW:** Do not ingest. Do not inhale dust. Use adequate ventilation and wash after handling.

#### GHS CLASSIFICATION:

##### Health

Acute Toxicity: Cat. 5  
Eye Irritation: Cat. 2B

Skin Irritation: N/A

##### Environmental

Acute Aquatic Toxicity: Not established  
Chronic Aquatic Toxicity: Not established

#### GHS LABEL ELEMENTS:

##### Symbol(s)



##### Signal Word

Caution



### Hazard Statements

Not harmful if swallowed in small quantities. May cause mild eye and/or skin irritation.

### Precautionary Statements

Wear protective gloves/protective clothing/eye protection/face protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or you feel unwell: Call a doctor/physician.

## III. COMPOSITION/ INFORMATION ON INGREDIENTS

**COMPONENT:** Trade Secret

**CAS NUMBER:**

Bacillus Mucilaginosus	N/A	47,000,000 cfu/g
Bacillus Subtilis	N/A	22,800,000 cfu/g
Bacillus Megaterium	N/A	11,400,000 cfu/g
Bacillus Licheniformis	N/A	11,400,000 cfu/g
Bacillus Simplex	N/A	11,400,000 cfu/g
Glomus Intraradices	N/A	56 propagules/g
Trichoderma Harzianum	N/A	103,800,000 cfu/g
Trichoderma Viride	N/A	103,800,000 cfu/g

## IV. FIRST AID MEASURES

**EYE CONTACT:** Wash eyes with water until powder residue is removed. If irritation persists, get medical attention.

**SKIN CONTACT:** Wash affected area with soap and water until powder residue is removed.

**INHALATION:** Remove exposed person to fresh air.

**INGESTION:** Do not induce vomiting. Drink plenty of water.

## V. FIRE FIGHTING MEASURES

### EXTINGUISHING

**MEDIA:** None required.

### SPECIAL FIRE FIGHTING

**PROCEDURES:** Avoid breathing vapors or dusts. Use self-contained breathing apparatus with full face piece and protective clothing.

### UNUSUAL FIRE AND EXPLOSIVE

**HAZARDS:** None known.

## VI. ACCIDENTAL RELEASE MEASURES

**IF MATERIAL IS RELEASED OR SPILLED:** Contain spill and transfer to suitable containers.

Stop leak if you can do it without risk.

**Small Spills:** Sweep and dispose of in appropriate trash receptacle.

**Large Spills:** Sweep and dispose of in appropriate trash receptacle.

## VII. HANDLING AND STORAGE

**STORAGE:** Observe all federal, state and local regulations when storing or disposing of this substance. Keep away from incompatible substances.

Use good engineering practices to establish good ventilation. Avoid contact with skin, eyes and clothing. Wear suitable protective equipment to protect from contact. Wash skin thoroughly after handling. Store in closed containers away from extreme heat, sparks, or open flames. Avoid freezing.

## VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

<b>SKIN PROTECTION:</b>	Wear appropriate protective gloves to prevent direct contact.
<b>EYE PROTECTION:</b>	Wear safety goggles to prevent eye contact with substance.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Impervious apron if needed to avoid prolonged or repeated skin contact.
<b>ENGINEERING CONTROLS:</b>	Good general ventilation and/or local exhaust ventilation at the point of generation is recommended.

### PERSONAL PROTECTIVE EQUIPMENT (Pictograms):



## IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING POINT:</b>	N/A Powder Form
<b>VAPOR PRESSURE:</b>	Unknown
<b>SOLUBILITY IN WATER:</b>	Complete
<b>EVAPORATION RATE:</b>	< 1
<b>SPECIFIC GRAVITY:</b>	N/A Not a liquid
<b>PERCENT VOLATILE</b>	N/A
<b>TESTED PH:</b>	6.5



**APPEARANCE:** Gray Powder  
**ODOR:** Slight Earthy Odor  
**VAPOR DENSITY:** >1  
**FLASH POINT:** Unknown  
**FLAMMABLE LIMITS:** N/A                      **LOWER:** N/A                      **UPPER:** N/A

X. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal temperatures and pressures  
**CONDITIONS TO AVOID:** N/A  
**INCOMPATIBILITY:** None known  
**If HAZARDOUS:** None known  
**POLYMERIZATION:** Will not occur

XI. TOXICOLOGY INFORMATION

**EYE IRRITATION:** Information not available.  
**SKIN IRRITATION:** Information not available.  
**INGESTION:** Information not available.  
**CHRONIC:** Induce vomiting and seek medical attention.

XII. ECOLOGICAL INFORMATION

No data available.

XIII. DISPOSAL INFORMATION

**WASTE DISPOSAL:** Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state and local regulations.

XIV. TRANSPORTATION INFORMATION

Non-Hazardous Substance

XV. REGULATORY INFORMATION

Information not available.

XVI. OTHER INFORMATION

**Classification Standards:**

**HEALTH HAZARD**  
4-Deadly  
3- Extreme Danger  
2- Hazardous

**NFPA**  
**FIRE HAZARD**  
Flash Points  
4-Below 73°F  
3-Below 100°F

**REACTIVITY**  
4-May detonate  
3-Shock and heat  
may detonate

1-Slightly Hazardous  
0-Normal Material

2-Above 100°F, Not  
exceeding 200°F  
1-Above 200°F  
0-Will not burn

2-Violent chemical change  
1-Unstable if heated  
0-Stable

**Table 3.8 Acute Toxicity**

Acute toxicity	Cat. 1	Cat. 2	Cat. 3	Cat. 4	Category 5
Oral (mg/kg)	≤ 5	> 5 ≤ 50	> 50 ≤ 300	> 300 ≤ 2000	Criteria: <ul style="list-style-type: none"> <li>Anticipated oral LD50 between 2000 and 5000 mg/kg;</li> <li>Indication of significant effect in humans;*</li> <li>Any mortality at class 4;*</li> <li>Significant clinical signs at class 4;*</li> <li>Indications from other studies.*</li> </ul> *If assignment to more hazardous class is not warranted.
Dermal (mg/kg)	≤ 50	> 50 ≤ 200	> 200 ≤ 1000	> 1000 ≤ 2000	
Gases (ppm)	≤ 100	> 100 ≤ 500	> 500 ≤ 2500	> 2500 ≤ 5000	
Vapors (mg/l)	≤ 0.5	> 0.5 ≤ 2.0	> 2.0 ≤ 10	> 10 ≤ 20	
Dust & mists (mg/l)	≤ 0.05	> 0.05 ≤ 0.5	> 0.5 ≤ 1.0	> 1.0 ≤ 5	

**Figure 4.11**

**ACUTE ORAL TOXICITY - Annex 1**

	Category 1	Category 2	Category 3	Category 4	Category 5
LD <sub>50</sub>	£ 5 mg/kg	> 5 < 50 mg/kg	<sup>3</sup> 50 < 300 mg/kg	<sup>3</sup> 300 < 2000 mg/kg	<sup>3</sup> 2000 < 5000 mg/kg
Pictogram					No symbol
Signal word	Danger	Danger	Danger	Warning	Warning
Hazard statement	Fatal if swallowed	Fatal if swallowed	Toxic if swallowed	Harmful if swallowed	May be harmful if swallowed

**Table 3.9 Skin Corrosion/Irritation**

Skin Corrosion Category 1			Skin Irritation Category 2	Mild Skin Irritation Category 3
Destruction of dermal tissue: visible necrosis in at least one animal			Reversible adverse effects in dermal tissue	Reversible adverse effects in dermal tissue
Subcategory 1A Exposure < 3 min. Observation < 1hr,	Subcategory 1B Exposure < 1hr. Observation < 14 days	Subcategory 1C Exposure < 4 hrs. Observation < 14 days	Draize score: ≥ 2.3 < 4.0 or persistent inflammation	Draize score: ≥ 1.5 < 2.3

**Table 3.10 Eye Effects**

Category 1 Serious eye damage	Category 2 Eye Irritation	
Irreversible damage 21 days after exposure	Reversible adverse effects on cornea, iris, conjunctiva	
Draize score: Corneal opacity ≥ 3 Iritis > 1.5	Draize score: Corneal opacity ≥ 1 Iritis > 1 Redness ≥ 2 Chemosis ≥ 2	
	<b>Irritant</b> Subcategory 2A Reversible in 21 days	<b>Mild Irritant</b> Subcategory 2B Reversible in 7 days

**Figure 4.9**

GHS Pictograms and Hazard Classes		
		
<ul style="list-style-type: none"> <li>▪ Oxidizers</li> </ul>	<ul style="list-style-type: none"> <li>▪ Flammables</li> <li>▪ Self Reactives</li> <li>▪ Pyrophorics</li> <li>▪ Self-Heating</li> <li>▪ Emits Flammable Gas</li> <li>▪ Organic Peroxides</li> </ul>	<ul style="list-style-type: none"> <li>▪ Explosives</li> <li>▪ Self Reactives</li> <li>▪ Organic Peroxides</li> </ul>
		
<ul style="list-style-type: none"> <li>▪ Acute toxicity (severe)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Corrosives</li> </ul>	<ul style="list-style-type: none"> <li>▪ Gases Under Pressure</li> </ul>
		
<ul style="list-style-type: none"> <li>▪ Carcinogen</li> <li>▪ Respiratory Sensitizer</li> <li>▪ Reproductive Toxicity</li> <li>▪ Target Organ Toxicity</li> <li>▪ Mutagenicity</li> <li>▪ Aspiration Toxicity</li> </ul>	<ul style="list-style-type: none"> <li>▪ Environmental Toxicity</li> </ul>	<ul style="list-style-type: none"> <li>▪ Irritant</li> <li>▪ Dermal Sensitizer</li> <li>▪ Acute toxicity (harmful)</li> <li>▪ Narcotic Effects</li> <li>▪ Respiratory Tract</li> <li>▪ Irritation</li> </ul>

**Figure 4.10**

Transport "Pictograms"		
		
<b>Flammable Liquid Flammable Gas Flammable Aerosol</b>	<b>Flammable solid Self- Reactive Substances</b>	<b>Pyrophorics (Spontaneously Combustible) Self- Heating Substances</b>

		
<b>Substances, which in contact with water, emit flammable gases (Dangerous When Wet)</b>	<b>Oxidizing Gases Oxidizing Liquids Oxidizing Solids</b>	<b>Explosive Divisions 1.1, 1.2, 1.3</b>
		
<b>Explosive Division 1.4</b>	<b>Explosive Division 1.5</b>	<b>Explosive Division 1.6</b>
		
<b>Compressed Gases</b>	<b>Acute Toxicity (Poison): Oral, Dermal, Inhalation</b>	<b>Corrosive</b>
		
<b>Marine Pollutant</b>	<b>Organic Peroxides</b>	

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