

SAFETY DATA SHEET

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Mirimichi Green Express, LLC 418 Hermitage Road Castle Hayne, NC 28429

I. PHYSICAL DATA

PRODUCT NAME: ByoSpxtrum CHEMICAL NAME: Soil Amendment

CHEMICAL FAMILY: Fertilizer FORMULA: Trade Secret

INFORMATION PHONE: 1-910-602-1681 **EMERGENCY PHONE:** 1-910-602-1681

Chemtrec 1-800-424-9300

II. HAZARDOUS IDENTIFICATION

NFPA RATING (SCALE 0-4) HEALTH=1 FLAMMABILITY = 0 REACTIVITY= 0

EMERGENCY OVERVIEW: Do not injest. Do not inhale dust. Use adequate ventilation

and wash after handling.

GHS CLASSIFICATION:

<u>Health</u>	Environmental
Acute Toxicity: Cat. 5	Acute Aquatic Toxicity: Not established
Eye Irritation: Cat. 2	Chronic Aquatic Toxicity: Not established
Skin Irritation: N/A	



GHS LABEL ELEMENTS: Symbol(s)



Signal Word Caution

Hazard Statements

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. May cause eye irritation or damage.

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 Subtilis	N/A	3.5 x 107 cfu/g
Bacillus Megaterium	N/A	$1.75 \times 10^7 \text{ cfu/g}$
Bacillus Licheniformis	N/A	$1.75 \times 10^7 \text{ cfu/g}$
Bacillus Simplex	N/A	$1.75 \times 10^7 \text{ cfu/g}$
Glomus Intraradices	N/A	55 ppg/g



IV. FIRST AID MEASURES

EYE CONTACT: Wash eyes with water for at least 30 minutes. If irritation persists, get

medical attention.

SKIN CONTACT: Wash affected area with soap and water for approximately 30 minutes

INHALATION: Remove exposed person to fresh air.

INGESTION: Do not induce vomiting. Get immediate medical attention.

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

VI. ACCIDENTAL RELEASE MEASURES

HAZARDS: None known.

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. Avoid breathing mist or vapors. Wash skin thoroughly after handling. Store in closed containers away from extreme heat, sparks, open flame or oxidizing materials. Avoid freezing.



VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

EXPOSURE GUIDELINES:

SKIN PROTECTION: Wear appropriate protective gloves to prevent direct contact. **EYE PROTECTION:** Wear safety goggles to prevent eye contact with substance.

OTHER PROTECTIVE

EQUIPMENT: Impervious apron if needed to avoid prolonged or repeated skin

contact.

ENGINEERING

CONTROLS: Good general ventilation and/or local exhaust ventilation at the

point of generation is recommended.

PERSONAL PROTECTIVE EQUIPMENT (Pictograms):









IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A Powder Form

VAPOR PRESSURE: Unknown SOLUBILITY IN WATER: Complete

EVAPORATION RATE: < 1

SPECIFIC GRAVITY: N/A Not a liquid

PERCENT VOLATILE N/A **TESTED PH:** 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: If combusted, carbon dioxide and carbon monoxide

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
- 1-Slightly Hazardous
- 0-Normal Material

NFPA FIRE HAZARD

- Flash Points
- 4-Below 73°F
- 3-Below 100°F
- 2-Above 100°F, Not
- exceeding 200°F
- 1-Above 200°F
- 0-Will not burn

REACTIVITY

- 4-May detonate
- 3-Shock and heat may detonate
- 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:
Dermal (mg/kg)	≤ 50	> 50 ≤ 200	> 200 ≤ 1000	> 1000 ≤ 2000	 Anticipated oral LD50 between 2000 and 5000 mg/kg;
Gases (ppm)	≤ 100	> 100 ≤ 500	> 500 ≤ 2500	> 2500 ≤ 5000	 Indication of significant effect in humans;*
Vapors (mg/l)	≤ 0.5	> 0.5 ≤ 2.0	> 2.0 ≤ 10	> 10 ≤ 20	 Any mortality at class 4;* Significant clinical signs at class 4;*
Dust & mists (mg/l)	≤ 0.05	> 0.05 ≤ 0.5	> 0.5 ≤ 1.0	> 1.0 ≤ 5	 Indications from other studies.*
					*If assignment to more hazardous class is not warranted.

Figure 4.11

ACUTE ORAL TOXICITY - Annex 1					
	Category 1	Category 2	Category 3	Category 4	Category 5
LD ₅₀	£ 5 mg/kg	> 5 < 50 mg/kg	³ 50 < 300 mg/kg	³ 300 < 2000 mg/kg	³ 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



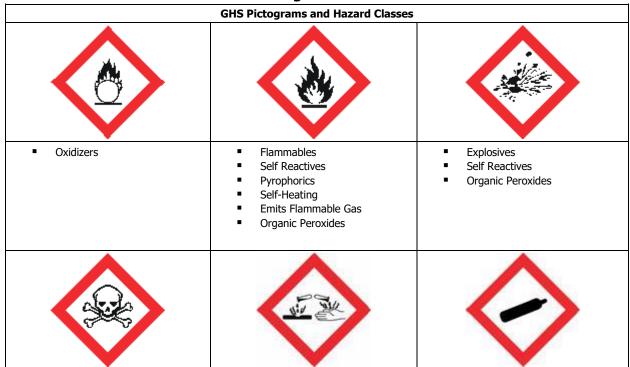
Table 3.9 Skin Corrosion/Irritation

	Skin Corrosion Category 1		Skin Irritation Category 2	Mild Skin Irritation Category 3
		Reversible adverse effects in dermal tissue	Reversible adverse effects in dermal tissue	
Subcategory 1A Exposure < 3 min. Observation < 1hr,	5 ,	Exposure < 4 nrs.	Draize score: ≥ 2.3 < 4.0 or persistent inflammation	Draize score: ≥ 1.5 < 2.3

Table 3.10 Eve Effects

Table Sits Eye Effects			
Category 1 Serious eye damage	_	Category 2 Eye Irritation	
Irreversible damage 21 days after exposure	Reversible adverse effects or	n cornea, iris, conjunctiva	
Draize score: Corneal opacity ≥ 3 Iritis > 1.5	Draize score: Corneal opacity ≥ 1 Iritis > 1 Redness ≥ 2 Chemosis ≥ 2		
	Irritant Subcategory 2A Reversible in 21 days	Mild Irritant Subcategory 2B Reversible in 7 days	

Figure 4.9

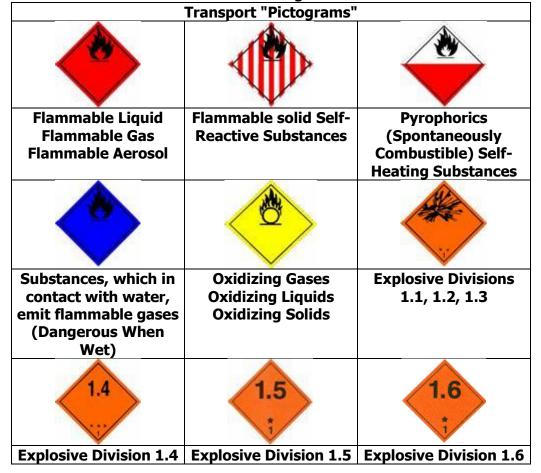




Acute toxicity (severe)	■ Corrosives	■ Gases Under Pressure

 Carcinogen Respiratory Sensitizer Reproductive Toxicity Target Organ Toxicity Mutagenicity Aspiration Toxicity 	■ Environmental Toxicity	 Irritant Dermal Sensitizer Acute toxicity (harmful) Narcotic Effects Respiratory Tract Irritation

Figure 4.10





2		
Compressed Gases	Acute Toxicity (Poison): Oral, Dermal, Inhalation	Corrosive
	5.2	
Marine Pollutant	Organic Peroxides	

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