

SAFETY DATA SHEET (SDS)

TerraGrow[®]

Form #:	SDS-095
Revision Date:	05/15/2019
Revision #:	02
Supersedes Date:	09/01/2015

Section 1: Identification			
Product Name:	TerraGrow [®]	Product Type / Description:	Bacterial inoculants
Recommended Use:	Soil amendment for agricultural use.	Other Means of Identification:	Non-pathogenic microbial inoculants
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.	Chemical Formula:	NA
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108	EPA Registration #:	NA
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)	

Section 2: Hazard Identification	
GHS Classification	Hazard Statements
Skin Corrosion/Irritation: Category 3	H316: Causes mild skin irritation.
Pictograms	Signal Word
NONE	WARNING
Precautionary Statements	
General	Response
P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use.	P332+P313: IF SKIN irritation occurs: Get medical advice/attention.
Prevention	Storage / Disposal
P280: Wear protective gloves, eye protection.	P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / Information on Ingredients		
Components	CAS-No	% Composition (w/w)
Microorganisms on inert carrier	-	6%
<i>Bacillus licheniformis</i>	-	-
<i>Bacillus subtilis</i>	-	-
<i>Bacillus pumilus</i>	-	-
<i>Bacillus amyloliquefaciens</i>	-	-
<i>Bacillus megaterium</i>	-	-
<i>Trichoderma harzianum</i>	-	-
Humic Acids, potassium salts	0068514-28-3	38%
Soy Protein Hydrolysate	-	15%
Soluble Seaweed Extract (<i>Ascophyllum nodosum</i>)	-	7%
Molasses	68476-78-8	34%

Section 4: First-Aid Measures	
Eye Contact:	In case of eye contact, rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and continue rinsing. Seek medical attention if symptoms persist.
Skin Contact:	Wash hands after use with warm water and soap. If irritation occurs flush skin with clean water. Get medical attention if irritation persists.
Ingestion:	Rinse mouth with water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek medical advice.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Consult a physician if necessary.

Section 5: Fire-Fighting Measures	
Suitable Extinguishing Media:	Water spray, carbon dioxide, alcohol foam, dry chemical.
Unsuitable Extinguishing Media:	None known.
Combustion Products:	None known.
Unusual Fire and Explosion Hazards:	None known.
Protective Equipment for Firefighters:	Fire fighters should wear protective gear appropriate for the surrounding fire, including the use of self-contained breathing apparatus (SCBA).

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Section 6: Accidental Release Measures

Personal Precautions:	Ensure adequate ventilation. Avoid inhalation, ingestion and contact with skin and eyes.
Emergency Procedures:	Ensure clean-up is conducted by trained personnel. Personnel should wear appropriate protective equipment.
Environmental Precautions:	Prevent undiluted spillage from entering sewers.
Methods and Material for Containment and Clean-Up:	Sweep up spills and dilute with water. Product is not hazardous.

Section 7: Handling and Storage

Handling:	Avoid excessive dust formation.
Storage:	Keep container tightly closed in a cool, dry location. Protect from sunlight.
Incompatible Materials:	Strong acids and oxidizing agents.

Section 8: Exposure Controls / Personal Protection

Components with Workplace Control Parameters

Component	ACGIH	NIOSH	OSHA
Microbial Inoculants	NA	NA	NA
Humic Acids, potassium salts	NA	NA	NA
Soy Protein Hydrolysate	NA	NA	NA
Soluble Seaweed Extract	NA	NA	NA
Molasses	NA	NA	NA

Engineering Controls: Ensure adequate ventilation.

General Hygienic Practices: Do not eat, drink or smoke during use. Wash hands immediately after handling the product.

Personal Protective Equipment

Respiratory Protection:	None needed under normal conditions.
Eye / Face Protection:	Protective eye wear.
Hand Protection:	Latex or nitrile gloves.
Skin / Body Protection:	Long sleeved shirt, socks, shoes.

Section 9: Physical and Chemical Properties

Appearance:	Dark brown/black powder.	Odor:	Sweet, sugary.	Odor Threshold:	NA
Physical State:	Powder.	pH:	8.0 (1% solution)	Specific Gravity:	0.60 – 0.66 g/cm ³
Melting Point:	NA	Freezing Point:	NA	Boiling Point:	NA
Flash Point:	NA	Flammability:	NA	Flammability Limits:	NA
Vapor Pressure:	NA	Vapor Density:	NA	Solubility:	Complete in water.
Evaporation Rate:	NA	Auto-Ignition Temperature:	NA	Decomposition Temperature:	NA
Relative Density:	NA	Partition Coefficient n-octanol / water:	NA	Viscosity:	NA

Section 10: Stability and Reactivity

Reactivity:	Non-reactive under recommended storage conditions.
Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Exposure to direct sunlight and heat.
Incompatible Materials:	Acids, oxidizers, biocides.
Hazardous Decomposition Products:	None known.

Section 11: Toxicological Information

Acute Toxicological Data

Oral LD50 Rat:	NA	Dermal LD50 Rat:	NA	Inhalation LC50 Rat:	NA
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Symptoms and Effects

Condition	Acute Effects	Chronic (Delayed) Effects
Eye Contact:	May cause eye irritation.	None.
Skin Contact:	May cause mild skin irritation.	None.
Inhalation:	May cause respiratory tract irritation.	None.
Ingestion:	May cause irritation to esophagus.	None.

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Section 12: Ecological Information	
Ecotoxicity:	NA
Persistence and Degradability:	NA
Bioaccumulative Potential:	NA
Mobility in Soil:	NA
Results of PBT & vPvB:	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
Other Adverse Effects:	None known.

Section 13: Disposal Considerations	
Waste from Residues and Unused Product:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
Contaminated Container Disposal:	Do not reuse or refill containers. Triple rinse empty containers with clean water. Clean and empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: Transport Information						
UN Number	UN Proper Shipping Name		Hazard Class (Subsidiary)	Packing Group	IATA	Marine Pollutant
DOT	-	Not regulated.	-	-	No restrictions apply.	No
TDG	-	Not regulated.	-	-		
IMDG	-	Not regulated.	-	-		
Special Precautions:	None					
Shipping Placards:	None					

Section 15: Regulatory Information						
TSCA Inventory List	US EPA CERCLA Hazardous Substances			Clean Water Act		
Yes	None			None		
SARA Title III						
Sec. 302 TPQ.	Sec 304 RQ.	Sec 311 / Sec 312 Hazard Category			Sec 313	Clean Air Act Threshold Qty.
NA	NA	NA			NA	NA
NFPA 704 Rating	Health: 0	Flammability: 0	Reactivity: 0	Special:	None	
HMIS Rating	Health: 0	Flammability: 0	Physical: 1	PPE:	Recommended.	
Uniform Fire Code (NFPA 400)	None					
California Prop 65	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.					

Section 16: Other Information	
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations	
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