

# MATERIAL SAFETY DATA SHEET — 16 Sections

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier BIO GREEN BIOGERMINATOR 11-0-1		[WHMIS Classification]		
Product Use AGRICULTURAL AND HORTICULTURAL PLANT FOOD/SOIL AMMENDMENT				
Manufacturer's Name BIO GREEN USA INC		Supplier's Name BIO GREEN USA INC		
Street Address 118 ALTO SOL CT.		Street Address 118 ALTO SOL CT.		
City SCOTTS VALLEY		State CA	City SCOTTS VALLEY	State CA
Postal Code 95066	Emergency Telephone 7757718750	Postal Code 95066	Emergency Telephone 7757718750	
Date MSDS Prepared 1/1/2008		MSDS Prepared By JOHN PERRY	Phone Number 7757718750	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients ( <i>specific</i> )	%	CAS Number	LD <sub>50</sub> of Ingredient ( <i>specify species and route</i> )	LC <sub>50</sub> of Ingredient ( <i>specify species</i> )
NO HAZARDOUS MATERIAL				
PRESENT IN MIXTURE				
COMPOSITION IS				
PROPRIETARY				

## SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry     Skin Contact     Skin Absorption     Eye Contact     Inhalation     Ingestion

[Emergency Overview]

[WHMIS Symbols]

Potential Health Effects

MAY CAUSE REDNESS OF SKIN OR EYE IRRITATION

## SECTION 4 — FIRST AID MEASURES

Skin Contact

WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE RE-USE. SEE PHYSICIAN IF SKIN BECOMES IRRITATED

Eye Contact

FLUSH IMMEDIATELY WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS

Inhalation

MOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL PHYSICIAN.

Ingestion IRRITATION MAY OCCUR. CONTACT POISON CONTROL IMMEDIATELY

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## SECTION 5 — FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	
Means of Extinction FOAM, DRY CHEMICAL, WATER SPRAY		
Flashpoint (° C) and Method N/A	Upper Flammable Limit (% by volume) NOT DETERMINED	Lower Flammable Limit (% by volume) NOT DETERMINED
Autoignition Temperature (°C) NOT AVAILABLE	Explosion Data — Sensitivity to Impact NONE	Explosion Data — Sensitivity to Static Discharge NONE
Hazardous Combustion Products NONE		
[NFPA]		

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures
PREVENT PRODUCT SPILLAGE FROM ENTERING STREAMS OR WATER SUPPLIES. COLLECT LIQUID OR ABSORB ONTO ABSORBANT MATERIAL AND PACKAGE FOR DISPOSAL FOLLOWING STATE AND FEDERAL REGULATIONS

## SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment
TRANSFER USING CHEMICAL RESISTANT PUMPS, VAALVES, AND HOSES. STORE IN PLASTIC CONTAINERS
Storage Requirements
STORE IN PLASTIC CONTAINERS IN A COOL WELL VENTILATED AREA. DO NOT STORE BELOW 40 F OR ABOVE 110 F. DO NOT STACK PALLETS MORE THAN TWO (2) HIGH

## SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV	<input type="checkbox"/> OSHA PEL	<input type="checkbox"/> Other ( <i>specify</i> )
Specific Engineering Controls ( <i>such as ventilation, enclosed process</i> )			
Personal Protective Equipment	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Respirator	<input checked="" type="checkbox"/> Eye
		<input type="checkbox"/> Footwear	<input type="checkbox"/> Clothing
			<input type="checkbox"/> Other
If checked, please specify type- EYES – CHEMICAL DUST SPLASH/DUST GOOGLES OR FULL FACE SHIELD TO PREVENT EYE CONTACT. AS A GENERAL RULE, DO NOT WEAR CONTACT LENSES WHEN HANDLING			
SKIN – WEAR IMPERVIOUS GLOVES AND CLOTHING			
RESPIRATORY- NOT NORMALLY NEEDED. IF USE GENERATES MIST, USE NIOSH- DUST/MIST REPIRATOR (SUCH AS 3M #8710)			
VENTILATION- RECOMMENDED, BUT NO TLV ESTABLISHED			

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Physical State LIQUID	Odor and Appearance EARTHY/ORGANIC ODOR. BROWN VISCOUS LIQUID	Odor Threshold (ppm) N/A
Specific Gravity 1.1	Vapor Density (air = 1) N/A	Vapor Pressure (mmHg) N/A
Evaporation Rate N/A	Boiling Point (° F) 212 F	Freezing Point (° F) 28 F
Ph 6.0	Coefficient of Water/Oil Distribution N/A	[Solubility in Water] 100%

**SECTION 10 — STABILITY AND REACTIVITY**

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones?

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Reactivity, and under what conditions?

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Hazardous Decomposition Products – IF BURNING, WILL RELEASE CARBON MONOXIDE/CARBON DIOXIDE

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

Effects of Acute Exposure

EYES-MILD IRRITANT. MAY CAUSE REDNESS/BURNING. SKIN-MILD IRRITANT, ESPECIALLY FROM PROLONGED EXPOSURE MAY OCCUR. INGESTION-MAY CAUSE CRAMP OR NAUSEA. INHALATION-MILD IRRITATION MAY OCCUR

Effects of chronic exposure NOT KNOWN

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Irritancy of Product

Skin sensitization N/A	Respiratory sensitization N/A
Carcinogenicity-IARC N/A	Carcinogenicity - ACGIH
Reproductive toxicity N/A	Teratogenicity N/A
Embrototoxicity N/A	Mutagenicity N/A

Name of synergistic products/effects N/A

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## SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity] ALGAL GROWTH INHIBITION – NOT KNOWN. TOXICITY TO FISH AND INVERTEBRATES-NOT KNOWN. TOXICITY TO PLANTS NO. TOXICITY TO NIRDS - NO

## SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal DO NOT CONTAMINATE LAKES, STREAMS, PONDS, ESTUARIES, OCEANS, OR ANY OTHER BODIES OF WATER BY DISCHARGE OF EFFLUENTS OR

WASHWATERS. DISPOSE OF WASTE EFFLUENTS ACCORDING TO STATE AND LOCAL REGULATIONS.

## SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information

NON DOT REGULATED FERTILIZER COMPOUNDS (MANUFACTURED) LIQUID NMFC ITEM 68140 SUB 6 LTL CLASS 70

PIN

TDG

[DOT]

[IMO]

[CAO]

## SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification] NONE

[OSHA]  
NONE

[SERA] NONE

[TSCA]  
NONE

*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.*

## SECTION 16 — OTHER INFORMATION



## BIOStart 11-0-1



Bio Green USA Inc. continues to develop products for Lawn and Garden, Agriculture, and Arbor Care. All of our products are Bio-Based with many listed on the USDA Bio-Preferred Program for federal procurement. The focus of Bio Green is to feed the soil food web and thereby balance the existing soil conditions. Our products are all developed for uniform seed germination, to drive down deeper roots, and create an easier form of application for contractors.

BioStart contains humic, fulvic, amino acids, simple sugars and micronutrients that are essential in amending soil. The product harmoniously balances polysaccharides and micros to bring a food source to microbes and nutrients to dead or less than fertile soil. Users of Bio Green products have noticed an increase in organic matter, soils that move closer to a neutral pH, increased water retention in sandy soil, and better drainage in clay or tightly bound soil structures.

BioStart contains cytokinins, auxins, and gibberellins that will greatly increase germination rates, maturity times, and drought/frost tolerances. This combination of PGR's (plant growth regulators) lends itself to uniform plant growth and consistently higher percentages of germinated seed. By adding these hormones, BioStart is able to have a much higher maturity rate without excessive salt-based nutrient additives.

### GUARANTEED ANALYSIS



11% Nitrogen (Feed Grade Urea)  
 0% Phosphate  
 1% Soluble Potash  
 1% Sulfur  
 Magnesium  
 Calcium  
 Manganese  
 Zinc  
 Copper  
 70 Colloidal minerals,  
 Norwegian kelp with cytokinins,  
 humic, fulvic, and amino acids

### PROVEN PERFORMANCE

- 76 % Bio Based Content
- Nutrients are immediately available
- Increases germination and rooting
- Provides essential amino acids
- Can be tank mixed with other chemicals
- Will not burn seed
- Naturally aids in balancing soil conditions
- Feeds native bacteria for increased N sequestration

### BIO GREEN MICRO NUTRIENT PACKAGE

Silver	Magnesium	Rhodium	Tungsten
Aluminum	Zinc	Manganese	Aspartic acid
Gold	Zirconium	Molybdenum	Glutamic acid
Boron	Selenium	Sodium	Serine
Barium	Uranium	Nickel	Threonine
Carbon	Bismuth	Oxygen	Clycine
Calcium	Beryllium	Osmium	Alanine
Chlorine	Niobium	Rubidium	Valine + methionine
Cobalt	Cadmium	Sulfur	Leucine
Copper	Chromium	Antimony	Isoleucine
Fluorine	Cesium	Silicon	Phenylalanine
Iron	Gallium	Tin	Tyrosine
Germanium	Indium	Strontium	Tryptophan
Hydrogen	Iridium	Tellurium	Cystine
Nitrogen	Palladium	Titanium	Arginine
Iodine	Platinum	Thallium	Proline
Potassium	Thorium	Vanadium	Histidine
Lanthanum	Radium	Cerium	Amide Nitrogen
Lithium	Bromine	Lysine	

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