

BioGreen™ BioGerminator



11-0-1

GUARANTEED ANALYSIS

Total Nitrogen (N)	11%
6% Urea Nitrogen	2.5% Ammonia
	2.5% Nitrate
Soluble Potash (K2O)	1%
Sulfur (S)	0.5%
	.5% Combined Sulfur (S)

Product Description:

Because of Bio Green's unique bio based formulation, it is effective in all types of soil and on all types of plant life.

Professional turf, lawns, flowers, shrubbery, trees, row and forage crops, pastures and natural habitats, etc. all thrive with Bio Green. Bio Green is ideal for spray applications to turf, foliar feed, trunk spray and root injection of trees and ornamentals. Bio Green is non-clogging and non-abrasive to equipment.

Bio Green uses nutrients that focus on the expansion of topsoil organisms. By providing foods based on pH, nutrient content and a large number of physiological factors, that these organisms will use efficiently, the numbers of these organisms will return to properly balanced populations quickly. Additionally, the plant nutrients in Bio Green are held in suspension in the liquid concentrate and are readily available to the seeds or plants. They become readily available to the seeds or plants when catalyzed with water and applied.

Application Recommendations

Tank Mixing: Dilute product in a tank sprayer at a minimum rate of 20 gallons of water to 1gallon of Bio Green concentrate.

Apply 5 gallons of concentrate per acre with seed and mulch
Product can be mixed at a maximum rate of 10 to 1.

Soil Amendment:

Mix 2 gallons of product with enough water to cover 1 acre. Apply before final grading.

As Plant Hormone:

Apply at a rate of 1 gallon per acre with mixed fertilizer at seeding.

As Fertilizer:

Apply at 5 gallons per acre on established grass every 6-8 weeks.

Sod Production:

1) Two Applications

Apply at a rate of 5 gallons per acre at seeding and at 2 weeks prior to cutting.

2) Three Applications

Apply at a rate of 3 gallons per acre at seeding, at mid season and at 2 weeks prior to cutting.

Storage and Handling:

All Bio Green products can be stored in normal warehouse areas. They do not require special or hazardous material handling or storage. Bio Green has a slightly acidic pH, but is neither corrosive or abrasive.

Because Bio Green nutrients are held in a concentrated suspension, the product must not be exposed to freezing temperatures

Environmental Commitment:

Bio Green USA is committed to the preservation of our environment. Our goal is to nurture the soils and plant life of lawns and landscapes while protecting the environment from the pollutants associated with synthetic fertilizer and the over-use of pesticides and herbicides. We are committed to

Reduce, Re-use, Recycle and Re-buy.

Concentrate must be agitated well before use.

Manufactured and guaranteed by

Bio Green USA Inc.

1822 3rd Ave Kearney, NE 68845

(866) 246-2406

www.biogreen.com

Derived from Urea Ammonium Nitrate, Potassium Sulfate, and

non plant food ingredients: Humic Acid and Sea Kelp

BioGreen™

BIOGERMINATOR 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.

Bio-Germinator 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.

Bio-Germinator 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, Bio-Germinator 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	

- Visit us at www.biogreen.com
- Email Us info@biogreen.com
- Call Toll Free 877-246-2406



Product Specifications

Nitrogen derived from Feed Grade Urea,
Potassium derived from sulfate of potash
Contains non plant food ingredients:

- 10% Humic Acid from Leonardite
- 7% Fulvic Acid
- 1% North Atlantic Kelp (ascophyllum nodosum)

Weight per gallon..... 9.5 lbs.
pH..... 3.9 or 7.8*
Nitrogen per gallon..... 1.05 lbs nitrogen

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Bio Green is complete:

- It contains all of the macro and micro nutrients necessary for healthy plant development.
- It promotes the development of a healthy soil food web which is essential for building topsoil.

Concentrate must be well agitated before use.

Suggested Uses:

BioGerminator 11-0-1 liquid fertilizer is recommended for all turf grass applications, including warm season grasses. It is very effective in hydro-seeding applications.

*Product is specifically blended for alkaline or acidic soil.

Application Recommendations

Hydro-seeding: BioGerminator can be tank mixed with any seed without fear of burning. BioGerminator can be applied with or without additional nutrient supplementation. Application rates will adjust as other nutrient rates are added:

- For general use (no additional fertilizer): Apply a minimum of 5 gallons per acre with a minimum dilution of 20:1. This application is for existing plant life as well as hydro-seeding mixes.
- Soil amending or preparatory rate: Apply a minimum of 2 gallons per acre with a minimum dilution of 5:1 prior to final grading.
- PGR/fertilizer additive application: Apply a minimum of 2.5 gallons per acre with mixed fertilizer in homogeneous state.

Bio-Germinator must be agitated prior to use. Do not store in direct sunlight or allow to freeze.

Lawn Seeding: Dilute at a rate of 4oz of Bio Green concentrate to 1 gallon of water. Apply at a rate of 16oz of concentrate per 1,000 sq. ft. Spray vigorously, coating the lawn evenly. One gallon covers 8000 sq. ft.

Tank Mixing: Dilute product in tank sprayer at a rate of 20 gallons of water to 1 gallon of Bio Green concentrate. Apply 5 gallons of concentrate per acre on lawn
Product can be mixed stronger (up to 10 to 1).

Storage and Handling:

All Bio Green products can be stored in normal warehouse areas. They do not require special or hazardous material handling or storage. Bio Green has a slightly acidic pH, but is neither corrosive or abrasive.

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Keep out of Reach of Children

- If product comes in contact with skin or eyes, flush with water immediately.

Bio Green USA, Inc
877-246-2406
www.biogreen.com

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 SCOTT'S VALLEY	State CA	City SCOTT'S 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 ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ 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

57M6 (6/99)

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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?

Reactivity, and under what conditions?

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

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

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

Please continue on reverse side

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