



## SPECIMEN LABEL

### CONTAINS NON-PLANT FOOD INGREDIENTS:

#### GUARANTEED ANALYSIS:

#### SOIL AMENDING INGREDIENTS:

Microbial Inoculant.....	0.30%
<i>Bacillus licheniformis</i> .....	1.20 x 10 <sup>9</sup> cfu/g
<i>Bacillus subtilis</i> .....	6.00 x 10 <sup>8</sup> cfu/g
<i>Bacillus pumilus</i> .....	6.00 x 10 <sup>8</sup> cfu/g
<i>Bacillus amyloliquefaciens</i> .....	3.00 x 10 <sup>8</sup> cfu/g
<i>Bacillus megaterium</i> .....	3.00 x 10 <sup>8</sup> cfu/g

Humic acids (derived from leonardite)..... 38.00%

Organic Matter (microbial food) (derived from Soy Protein Hydrolysate, Kelp Extract (*Ascophyllum nodosum* and Potassium Hydroxide)\* and Molasses)..... 56.00%

#### TOTAL OTHER (INERT/INACTIVE) INGREDIENTS

(water or carrier and microbial food)..... 5.70%

\*Extracted with Potassium Hydroxide

## CAUTION

### KEEP OUT OF REACH OF CHILDREN

Do not inhale or ingest. Avoid contact with skin and eyes. Wash thoroughly after handling. If swallowed, drink water and consult a physician.

### STORAGE

To maintain shelf life, store in a refrigerator or in a cool, dry area. Keep container tightly closed when not in use. Avoid prolonged exposure to direct sunlight or temperatures exceeding 85°F.

**PURPOSE:** TerraGrow is a specialty blend of beneficial microbial organisms including five different species of *Bacillus* bacteria. TerraGrow is formulated to improve soils and plant vigor by restoring root zone biological activity. Use with row crops, vegetables crops, flowering plants, ornamentals, herbs, turf and bedding plants following application rates and directions in the label. TerraGrow's purpose is to quickly reestablish beneficial microbes in the plant rhizosphere and improve nutrient availability.

TerraGrow is cultured through a single species fermentation process, blended and tested under strict quality control conditions to ensure consistency and stability.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

### COMPATIBILITY WITH PESTICIDES, FERTILIZERS AND ADJUVANTS

TerraGrow is best used as a standalone product. Do not combine this product directly with pesticides, surfactants or fertilizers unless proven to be compatible as product has not been fully evaluated with all pesticides, fertilizers, adjuvants and surfactants.

Chemical fungicides and bactericides should not be mixed directly with or applied to the soil or growing media at the same time as TerraGrow. When using with BioSafe Systems' disease control products, wait at least 4 hours before applying TerraGrow. When using TerraGrow after soil fumigation, allow fumigants to dissipate to levels safe for planting before applying TerraGrow. Allow soil or planting media treated by steam-sterilization or solarization to cool to a temperature of 100°F or lower before adding TerraGrow.

Do not mix TerraGrow directly with synthetic fertilizers. TerraGrow may be applied in conjunction with BioSafe Systems' BioSafe Plant Food® or other non-synthetic fertilizers as long as the final pH of the solution is between 6-7.

### DIRECTIONS FOR USE

For best results, use TerraGrow in conjunction with BioSafe Systems plant disease control products. Follow use directions carefully to avoid any negative effects from these products on the performance of TerraGrow.

**NOTE: 1 teaspoon = 0.1 oz., 3 tablespoons = 1.0 oz., 1 cup = 5 oz.**

### FRUITS, VEGETABLES AND OTHER FIELD GROWN CROPS

#### Soil Treatment:

#### Direct Inject Applications:

- Apply TerraGrow to soil through drip or overhead irrigation systems at a rate of 1.0-1.5 lbs. per acre prior to or immediately after sowing or transplanting.
- Calculate required amount of TerraGrow based on number of acres to be treated.
- Prepare a stock solution by mixing TerraGrow in enough water to completely dissolve powder. Mix every 1 lb. of TerraGrow with at least 4-5 gallons of water.
- Mix TerraGrow under continuous agitation or circulation. Add powder slowly to the mix tank to avoid clumping. Powder must be thoroughly saturated to dissolve completely.
- Thoroughly mix solution. If necessary, probe bottom of mix tank to check for any un-dissolved powder prior to off-take.
- Inject stock solution evenly into irrigation system to ensure sufficient distribution of TerraGrow.
- For best results, apply when soil temperatures are above 45°F.
- If using BioSafe Systems' TerraClean 5.0 or TerraStart for soil plant pathogen control, always apply these products first and wait several hours before applying TerraGrow, making sure lines have been flushed for 15-20 minutes prior to injecting TerraGrow.
- Repeat at 3-4 week intervals throughout crop growing season.

**System Cleanout:** Back flush system and filters with water for approximately 5-10 minutes after application to remove any loose minute particles that did not pass through filter. Rinse all exposed equipment including mix tank bottoms, lines, nozzles etc. to remove any particulates that may have collected in areas of low velocity.

#### In-Furrow and Soil Drench Applications:

- **As an in-furrow application at the time of planting:** Mix 1.0 lb. of TerraGrow in 10-15 gallons of water per acre and apply at planting directly over or behind the seed prior to covering.
- **As a soil drench prior to or after crop establishment:** Mix 1.0 lb. of TerraGrow per 100 gallons of water and thoroughly drench the root zone with the solution.

### GREENHOUSE FOOD CROPS AND ORNAMENTALS

#### Soil or Media Drench:

Mix TerraGrow according to chart below. Apply as a spray or drench. Apply to soil or growing media in flats, plugs, trays, pots or planting beds immediately before or after seeding, sticking, or transplanting.

Soil/Growing Media Depth	TerraGrow per 100 Gallons
2"	1 oz.
4"	2 oz.
6"	3 oz.
>6"	4 oz.

### **Post-Planting Applications:**

- Use 1.0 oz. of TerraGrow per 1,000 sq. ft. of plant area per 2" of soil depth. Mix TerraGrow in 1 gallon of clean, cool water and apply entire solution to plant area using a conventional chemical injector set at 1:200.
- Reapply once every 3-4 weeks throughout crop growing season.

### **Turf:**

- Apply TerraGrow to all types of cool and warm weather turf varieties throughout the season when soil temp is 45°F or higher.
- Use a rate of 0.5-1.0 oz. per 1,000 sq. ft. of turf in sufficient water to drench TerraGrow to a depth of 3-6 inches.
- Reapply every 3-4 weeks.

### **Hydroponic System Application:**

- Add TerraGrow at a rate of 0.6-1.0 oz. per 100 gallons of nutrient tank water when transplants are first placed in the trays. Run the solution through the system for thorough mixing.
- Repeat applications every time fresh water is added to the system or once every 7-10 days using 0.1-0.2 oz. of TerraGrow per 100 gallons of nutrient tank water.
- If transplant roots are already dipped in the TerraGrow solution prior to placement in the trays, wait 7-10 days before making the first application of TerraGrow to the nutrient tank water.

### **Soil-less Media Applications**

- Direct inject at 0.5 gram per gallon on a weekly basis. Mix 50 grams per gallon stock tank and set injector to 1:100 for final dilution. Drench to saturation while minimizing leach.

### **Seed/Cutting/Root Treatments for Field Grown/Greenhouse Food Crops, Ornamentals and Hydroponic Crops**

#### **Seed Treatment:**

- Inoculate seed with TerraGrow prior to planting using a rate of 0.3-0.5 oz. of TerraGrow per 100 lbs. of seeds.
- Make a suspension of TerraGrow in cool, clean water and add to the seed batch mixer containing the seed. Thoroughly mix the seed with suspension.
- TerraGrow suspension needs to be used on the seed within 24 hours of mixing.

#### **Cutting and Root Dip Applications:**

- Dissolve 0.6-1.0 oz. of TerraGrow per 10 gallons of water. Dip basal end of cuttings or bare roots into the solution for 10-20 seconds immediately before planting.

## **HANDLING & DISPOSAL**

**Do not breathe dusts when mixing. Use adequate ventilation and respiratory protection. Avoid breathing fertilizer mists. Avoid eye and skin contact. Wash hands thoroughly after using product. Disposal: Do not reuse container. Follow all local, State and Federal laws for proper disposal.**

**WARRANTY:** BIOSAFE SYSTEMS, LLC warrants that this product conforms to the description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or BIOSAFE SYSTEMS, LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.



For additional information on TerraGrow,<sup>®</sup> call us toll-free at 1.888.273.3088 or visit [www.biosafesystems.com](http://www.biosafesystems.com).

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