

# TerraGrow® Liquid

(2-0-2)

## SPECIMEN LABEL

### GUARANTEED ANALYSIS:

Total Nitrogen (N)..... 2.00%  
 1.65% Water Soluble Nitrogen  
 0.35% Water Insoluble Nitrogen

Soluble Potash (K<sub>2</sub>O)..... 2.00%

Derived from: Soy Protein Hydrolysate and Kelp Extract  
 (*Ascophyllum nodosum*)\*

\*Extracted with potassium hydroxide

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS: Guaranteed Analysis–Soil Amending Ingredient

Total *Bacillus* spp.  
 % w/w (cfu/mL)..... 0.35% (1.0 x 10<sup>9</sup> cfu/mL)  
*Bacillus licheniformis*..... 4.0 x 10<sup>8</sup> cfu/mL  
*Bacillus subtilis*..... 2.0 x 10<sup>8</sup> cfu/mL  
*Bacillus pumilus*..... 2.0 x 10<sup>8</sup> cfu/mL  
*Bacillus amyloliquefaciens*..... 1.0 x 10<sup>8</sup> cfu/mL  
*Bacillus megaterium*..... 1.0 x 10<sup>8</sup> cfu/mL

### TOTAL OTHER INGREDIENTS

(Inert, as a nonplant food ingredient)..... 99.65%

**Density:** 10.26 lbs./gallon (1.23 g/mL) • F002650



**WARNING**

**SHAKE WELL  
 PRIOR TO USE**

**KEEP OUT OF REACH  
 OF CHILDREN**

**PRECAUTIONS:** Read label before use. 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. **See use-by date on the container.**

**PURPOSE:** TerraGrow Liquid is a specialty blend of beneficial microbial organisms. This product can be used for agricultural and horticultural crops, such as fruits, vegetables, herbs, hemp, turf, flowering plants, ornamentals, and bedding plants when used as directed in this label. When applied to the soil, TerraGrow Liquid quickly reestablishes beneficial microbes in the plant rhizosphere, improves nutrient availability, and plant health. When applied to plant tissue, TerraGrow Liquid enhances plant vigor, supports stress tolerance, and bolsters plant health.

TerraGrow Liquid 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:

TerraGrow Liquid has not been fully evaluated, as such do not combine TerraGrow Liquid directly with any pesticides, fertilizers, or adjuvants unless proven to be tank mix compatible.

Some pesticides may interfere with the performance of TerraGrow Liquid. It is advised that applications of TerraGrow Liquid be delayed up to 24 hours following the use of some pesticides unless those pesticides have been shown to have no impact on the performance of TerraGrow Liquid.

Some fertilizers may be applied in conjunction with TerraGrow Liquid if the final pH of the solution is between 6-7 and has been shown to have no impact on the performance of TerraGrow Liquid. Before applying TerraGrow Liquid to soil or planting media treated by steam-sterilization or solarization, allow the substrate adequate time to cool down to a temperature of 100°F or lower.

Please contact BioSafe Systems for additional information regarding tank mix compatibility and best use recommendations of this product.

### PLANT SENSITIVITY:

Do not apply TerraGrow Liquid above labeled rates. TerraGrow Liquid has not been tested on all plants and crops. It is advised before treating large numbers of plants to test TerraGrow Liquid or tank mixes of TerraGrow Liquid and other pesticides or fertilizers at labeled rates on a separate set of plants and observe for symptoms of sensitivity prior to use.

Read the entire label before using this product and only use according to label directions.

### DIRECTIONS FOR USE

#### SHAKE WELL PRIOR TO USE

For best results, follow use directions carefully to avoid any negative impact on the performance of TerraGrow Liquid.

**Cutting and Root Dip Application:** Dissolve TerraGrow Liquid at 0.5-1.0 fl. oz. per 10 gallons of water. Dip basal end of cuttings or bare roots into the solution for 10-20 seconds immediately before planting.

**Direct Inject (Chemigation) Application:** Apply TerraGrow Liquid to soil through drip or overhead irrigation systems at a rate of 13.0-20.0 fl. oz. per acre prior to or immediately after sowing or transplanting. Calculate required amount of TerraGrow Liquid based on number of acres to be treated. Thoroughly mix solution. Inject stock solution evenly into irrigation system to ensure sufficient distribution of TerraGrow Liquid. For best results, apply when soil temperatures are above 45°F. If using BioSafe Systems' disease control products for soil plant pathogen control, always apply these products first and wait up to 24 hours before applying TerraGrow Liquid, making sure lines have been flushed for 15-20 minutes prior to injecting TerraGrow Liquid. Repeat at 3-4 week intervals throughout crop growing season.

**Foliar Spray Application on In-Field Outdoor Agricultural and Horticultural Crops:** Apply TerraGrow Liquid at a rate of 15-20 fl. oz. per acre in a minimum of 25 gallons of water per acre to insure adequate coverage of foliage.

**Foliar Spray Application on Greenhouse Indoor Agricultural and Horticultural Crops:** Apply TerraGrow Liquid at a rate of 0.3-0.5 fl. oz. (9.0-15.0 mL) per 1,000 sq. ft. of area in a minimum of 1 gallon of water per 1,000 sq. ft. to insure adequate coverage of foliage.

**Fogging Application (Cold Fog Only):** For cold fogging, mix TerraGrow Liquid with water at a rate of 4% v/v (5.1 fl. oz. per gallon of water), and apply as a fog at a rate of 1-gallon mixed suspension per 10,000 sq. ft. of area.

**Hydroponic System Application:** Add TerraGrow Liquid at a rate of 0.5-1.0 fl. oz. (15.0-30.0 mL) 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 TerraGrow Liquid at a rate of 0.1-0.2 fl. oz. (3.0-6.0 mL) per 100 gallons of nutrient tank water. If transplant roots are already dipped in the TerraGrow Liquid solution prior to placement in the trays, wait 7-10 days before making the first application of TerraGrow Liquid to the nutrient tank water.

**In-Furrow Application:** As an in-furrow application at the time of planting, apply TerraGrow Liquid at 13 fl. oz. per acre in 10-15 gallons of water per acre and apply at planting directly over or behind the seed prior to covering.

**Greenhouse and Nursery Soil/Soilless Media Drench:** Apply TerraGrow Liquid at 1.0-3.0 fl. oz. per 1,000 sq. ft. of area. Apply in adequate volume of water to ensure thorough wetting of soil/soilless media and root zone immediately before or after seeding, sticking, or transplanting and reapply once every 3-4 weeks throughout crop growing season.

**Seed Treatment:** Inoculate seed with TerraGrow Liquid prior to planting using a rate of 0.2-0.4 fl. oz. per 100 lbs. of seeds. Make a suspension of TerraGrow Liquid in sufficient volume of cool, clean water as needed to evenly distribute the product over the seed surface (do not use too much water – avoid over diluting the suspension), then add suspension to the seed batch mixer containing the seed. Thoroughly mix the seed with suspension to insure coverage of each seed. TerraGrow Liquid suspension needs to be used on the seed within 24 hours of mixing. Do not store suspension; discard any unused suspension.

**Turf Application:** Apply TerraGrow Liquid 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 0.3-0.5 fl. oz. per 1,000 sq. ft. of area in sufficient water to drench TerraGrow Liquid to a depth of 3-6 inches. Reapply every 3-4 weeks.

**For Virginia Only:** Do not apply near water, storm drains, or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn/garden, and sweep any product that lands on the driveway, sidewalk, or street, back onto your lawn/garden.

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## HANDLING & DISPOSAL

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

 **BioSafe Systems**

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Always read and follow label directions.

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