



TerraGrow[®]

BENEFICIAL MICROBIAL FORMULA FOR SOIL AND PLANTS

QUICKLY REESTABLISHES BENEFICIAL MICROBES IN THE PLANT RHIZOSPHERE

CAUTION KEEP OUT OF REACH OF CHILDREN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)

Do not inhale or digest. Avoid contact with skin, eyes, or clothing. In case of contact, flush with water. 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.

TerraGrow is a specialty blend of beneficial microbial organisms including different strains of bacteria and fungi and microbial nutrients designed to improve soil and plant vigor by restoring root zone biological activity. Use with row crops, vegetables crops, ornamentals, herbs, turf and bedding plants.

Each strain in TerraGrow is cultured through a single strain fermentation process, blended and tested under strict quality control conditions to ensure consistency and stability. TerraGrow does not contain any genetically modified microbial strains or ingredients.

- Quickly reestablishes beneficial microbes in the plant rhizosphere
- Water soluble for easy application through irrigation systems
- Improves nutrient availability for plants
- Improves soil characteristics ideal for plant growth
- Improves plant stress tolerance and vigor
- For use with a wide variety of crops including vegetables, fruits, row crops, turf, hydroponic and ornamental crops

CONTAINS NON-PLANT FOOD INGREDIENTS:

0.3% Microbial Inoculants

<i>Bacillus licheniformis</i>	1.2 x 10 ⁹ cfu/g
<i>Bacillus subtilis</i>	6.0 x 10 ⁹ cfu/g
<i>Bacillus pumilus</i>	6.0 x 10 ⁹ cfu/g
<i>Bacillus amyloliquefaciens</i>	3.0 x 10 ⁹ cfu/g
<i>Bacillus megaterium</i>	3.0 x 10 ⁹ cfu/g
<i>Trichoderma harzianum</i>	6.0 x 10 ⁹ cfu/g
<i>Trichoderma reesei</i>	3.0 x 10 ⁹ cfu/g

38% Humic Acids (derived from leonardite)

15% Soy Protein Hydrolysate (microbial nutrient)

7% Kelp (*Ascophyllum nodosum*) (microbial nutrient)

34% Molasses (microbial nutrient)

5.7% Inert Carrier

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

Guaranteed by

 **BioSafe Systems**

22 Meadow Street East Hartford, CT 06108

1-888-273-3088 (toll-free)

1514-0

Net Contents:

■ 10 lbs. (4.53 KG) ■ 25 lbs. (11.33 KG)

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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 TerraClean® 5.0, TerraStart® or ZeroTol® 2.0, 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 such as TerraClean 5.0, TerraStart or OxiDate® 2.0 and ZeroTol 2.0. Follow use directions carefully to avoid any negative effects from these products on TerraGrow's performance.

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 a sufficient amount of water to completely dissolve powder.

Note: When preparing a stock solution that will contain 10 lbs or more of TerraGrow; mix with at least 5 gallons of water for every 1 lbs. of TerraGrow. When preparing a stock solution that will contain less than 10 lbs. of TerraGrow; mix with at least 2 gallons of water for every 1 lb. of TerraGrow.

- Mix TerraGrow under continuous agitation or circulation. Add powder slowly to the mix tank to avoid clumping and to prevent dry powder from sitting on top of the water. Powder must be thoroughly saturated to dissolve completely.
- Thoroughly mix solution for approximately 10 minutes. 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 4–5 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 to 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 solution in the root zone.

GREENHOUSE FOOD CROPS AND ORNAMENTALS

Soil or Media Drench:

Mix TerraGrow according to the chart below. Apply as a course 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 during entire 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 3.0–5.0 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.

If using BioSafe Systems ZeroTol 2.0 for turf disease control, apply ZeroTol 2.0 first and wait at least 4–5 hours before applying TerraGrow.

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 for 7–10 days before making the first application of TerraGrow to the nutrient tank water.

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 1,000 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 hrs of mixing
- If using BioSafe Systems' OxiDate 2.0 or ZeroTol 2.0 for seed treatment applications, always treat seed with OxiDate 2.0 or ZeroTol 2.0 solution first. Ensure no residual OxiDate 2.0 or ZeroTol 2.0 is left on the seed before treating with TerraGrow.

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
- If using BioSafe Systems OxiDate 2.0 or ZeroTol 2.0 for cutting or root dip applications, always dip in OxiDate 2.0 or ZeroTol 2.0 solution first. Ensure no residual OxiDate 2.0 or ZeroTol 2.0 is left on the cuttings or roots before dipping in TerraGrow solution.

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 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, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS 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®, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com.

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