



COMPANION[®]

MICROBIAL INOCULATE & SOIL AMENDMENT

- QUICKLY COLONIZES SOILS WITH MICROBES
- PROVIDES PROPER ECOLOGICAL BALANCE
- IMPROVES NUTRIENT UPTAKE

GUARANTEED ANALYSIS:

Bacillus subtilis GB03

(not less than 5.5 x 10¹⁰ CFU* per gallon)

(not less than 1.5 x 10¹⁰ CFU* per litre)

* (CFU) Colony Forming Units

Sucrose, Monosaccharides, Condensed Fermented Plant Extracts, Dextrin, Natural Organic Sequestrant, Natural Wetting Agent.

Weight per gallon9.95 lbs.

Weight per litre1.19 kg

PRODUCT DESCRIPTION:

Companion is a unique liquid microbial inoculant containing beneficial soil bacteria spores (Bacillus subtilis GB03). It is the only patented liquid microbial product, and the unique formulation keeps the spores stable for more than two years. Companion's rich organic solution acts as a food source to help the Bacillus subtilis multiply and establish colonies. Bacillus subtilis is a naturally occurring gram-positive (spore-forming) soil bacteria.

When applied to plant materials, the spores quickly colonize plant roots. Companion improves turf growth and promotes essential plant nutrient uptake. As part of their symbiotic relationship with the plant, the GB03 provide enzymes and auxin-like metabolites, which improve rooting, growth, and plant vigor. Companion's organic solution contains high percentages of natural carbon compounds, which neutralize chemical salts. Companion is not phytotoxic to any plant materials.

Companion is easy to use and handle. Since Bacillus subtilis GB03 is a bacteria, it may be mixed with chemical fungicides without detriment to either product. It may be used for general maintenance, new seeding, sod, transplants, and remedial soil applications. To insure optimal results in the field, it is important to store, handle, and apply the product in an appropriate manner.

Tank Mixing: Special care should be taken when tank mixing. Be sure that all tanks have been cleaned of any harsh pesticides. Add water to 3/4 level followed by fertilizer addition. Mix thoroughly, add Companion and continue to mix. Companion can be mixed with most fungicides, herbicides or insecticides. Do NOT mix with copper based fungicides or acids such as sulfuric acid. Do not mix with products with a pH below 4 or above 9. Be sure to apply all of tank mix solution the same day to assure viability of spores.

Compatibility: Companion may be safely tank mixed with high quality fertilizers, micronutrients, organic materials, wetting

- USE ON GREENS & TEES
- STIMULATES HEALTHIER ROOTS
- NATURAL OCCURRING RHIZOSPHERE BACTERIA

agents, and surfactants. Companion can also be mixed and applied with Contact and Systemic Fungicides. Do NOT mix with copper based fungicides or acids such as sulfuric acid.

APPLICATION TIMING:

Companion can be applied throughout the growing season from early spring to late fall on all types of soils, turfgrass, woody ornamentals, trees, perennials and other horticultural materials. Apply early in spring after ground temperature has reached 45° (7° C) and until late fall prior to light frost.

SUGGESTED USES:

Turf Applications: Use 4 ounces of Companion per 1,000 square feet every 14 - 28 days (metric equivalent equals 127 ml per 100 sq. m). 1.85 litre - 2.2 litre per standard size bowling green. Spray at a rate of 1 - 2 gallons of tank mix per 1,000 sq. ft (5-7.6 litres per 100 sq. m). Spray on cool season, warm season and transitional grasses. Companion can be tank mixed and applied with both systemic and contact fungicides as part of a regular turf maintenance program.

Turf Rates for U.S.		
Soil Type	Companion Rate per 1,000 sq. ft.	Spray Rate per 1,000 sq. ft.
Normal	4 oz.	1 to 2 gallons
Sandy	5 oz.	1 to 2 gallons

Metric Spray Rates		
Soil Type	ml per 100 m ²	Litres per 100 m ²
Normal	127 ml	5 1/2 - 7 1/2
Sandy	158 ml	5 1/2 - 7 1/2

New Landscapes: Companion should be applied along with a soil amendment such as Essential[®]. Mix 1 quart (32 oz.) of Companion in 100 gallons of water (1 litre in 400 litres), along with a liquid soil amendment. Use as a soil drench at a rate of 2 - 3 gallons of tank mix per 1,000 sq. ft. (7.6 - 11.4 litres per 100 sq. m) at time of planting ornamentals, bedding plants, perennials, seeding or sod application. Apply a second application approximately 2 - 4 weeks later at a rate of 16 oz. per 1,000 sq. ft. (480 ml per 100 sq. m)

Trees and Shrubs: Mix 32 oz. of Companion per 100 gallons of water (1 litre in 400 litres). Mix along with 32 oz. of Essential[®] (1 litre) or other organic solutions to provide additional food source

for microorganisms. For poor soils or new construction apply in both spring and fall. Mix 3 to 5 oz. in 5 gallons of water (88 ml per 18 -19 litres). Apply 5 gallons (18-19 litres) of tank mix per inch (25 mm) DBH starting approximately 3 feet (1 metre) from base of tree and in grid pattern at 2 to 2 1/2 feet (.61-.76 metre) intervals. Companion is compatible with high quality arbor care products.

Transplants: For transplant of trees and shrubs drench root ball with approximately 1 gallon of tank mix per inch DBH (3.8 litres per 25 mm) or 1 gallon tank mix to each 5 gallon (3.8 litres to each 18.9 litres) of ball / container.

Tree & Shrub Rate for U.S.	
Transplants	4 oz. per yd ³ of soil
Containerized	Dilute 2 oz. in 5 gallons of water Add 16 oz. of mix per 1 gallon container

Metric Tree & Shrub Rate	
Transplants	120 ml per m ² of soil
Containerized	Dilute 60 ml in 20 litres of water Add 480 ml of mix per 4 litre container

Remediation of Soils: Companion can be used in conjunction with other soil remediation products to accelerate improvement of soil from contamination and over-usage of pesticides. Companion's organic solution contains high percentages of natural carbon compounds, which neutralize chemical salts. Companion Microbial Inoculant is ideal for land areas where soils have been moved or disturbed to establish a healthy population of beneficial soil microbes.

User Safety: Be sure to wash hands after use and before eating. If contact occurs to eyes, flush eyes with plenty of water for 15 minutes. If contact to skin occurs, wash with plenty of soap and water. If swallowed, do not induce vomiting. Contact a physician immediately.

STORAGE & HANDLING:

DO NOT FREEZE. Keep out of direct sun light or heat source to prevent overheating of liquid.

Sun & Air Sealed Box: Because of the unique character of both the solution and microbial spores, Companion has been packaged in our SUN & AIR SEALED container, which protects from UV radiation that can affect product stability and possible contamination from air borne spores.

To Dispense: Remove plastic carton lid. A dispensing tap is tucked inside the carton. Pull out inner plastic container neck with cap on. Remove cap and immediately screw on tap tightly. To open tap turn to left side. No air will be allowed into this container during use while this tap is in place. Do not leave container open.

*US Patent

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CAUTION: Keep out of reach of children. In case of contact with eyes, flush immediately with copious amounts of water. Contact a physician. Do not take internally.

Manufactured By:

