

Bio-D SP

Technical Specifications and Application Instructions

Product Description:

Bio-D SP is a complex of microbes and known soil plant amending ingredients combined with critical enzymes and the most effective microbe food sources available. The combination of these ingredients will make indigenous beneficial microbes explode in numbers in the soil. This will improve organic matter in the soil, growth patterns in plants, and fruit quality. There are no fillers. 100% of the ingredients have an active purpose for your soil and plants.

Product Specifications:

Bacillus Mucilaginosus

Bacillus Subtilis

Bacillus Megaterium

Bacillus Licheniformis

Bacillus Simplex

Company Intrast dises Endomyserbines

2.8x10¹⁰cfu/Lb

8.0x10⁹cfu/Lb

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Glomus Intraradices Endomycorhizae 25,000 propagules/Lb

Humic Acid: 10% Fulvic Acid: 4% Amino Acids: 13%

Appearance: Fine gray powder

Solubility: 100% in water (some powder may remain in

Suspension)

Bulk Density: 1.7 mL / gram or 26.08 fluid oz / Lb

Benefits:

- 1. Inoculates soil with diverse populations of bacteria and fungi beneficial to soil and plant life.
- 2. Stimulates the growth and reproduction of indigenous microorganisms.
- 3. Invigorates root growth.
- 4. Builds higher protein and sugar levels in plants.
- 5. Improves photosynthetic performance.
- 6. Helps to break up soil compaction
- 7. Enhances resistance to drought, pests, and disease.
- 8. Excellent for organic applications.

Directions for Use:

Liquid Application:

- 1. Add 4 to 8 fluid ounces of water to each 1 weight measured ounce of Bio-D SP in a pail and agitate until powder goes into full suspension.
- 2. Add water and other liquid fertilizers to tank as directed.
- 3. Add pre-mixed Bio-D SP solution to the tank.
- 4. Top tank with water to disperse Bio-D SP throughout tank.
- 5. Apply directly after adding to the tank.

Drip Irrigation Instructions:

- 1. Add 17 oz of Bio-D SP to every 100 gallons of water or other liquid fertilizers. It is recommended that it be pre-mixed into a slurry in a pail prior to adding to the tank. Look at above instructions.
- 2. Charge tank with water and/or other liquid fertilizers.
- 3. Add pre-mixed Bio-D SP slurry to the tank.
- 4. Top tank with water to disperse Bio-D SP throughout tank to match 100 gallons of liquid for every 17 oz of Bio-D SP.
- 5. Apply directly after adding to the tank.
- 6. Refer to below application methods for application rates.

Note: Avoid mixing biocides in the tank with Bio-D SP as it may reduce viable microbial counts at the time of application.

Hydroseed Application:

- 1. Add measured quantity of Bio-D SP directly into hydroseed slurry and mix thoroughly until Bio-D SP is fully dispersed throughout the slurry.
- 2. Apply directly after adding to the slurry.

Dry Application:

- 3. Mix measured quantity of Bio-D SP into a small amount of water and mix into a slurry.
- 4. Add slurry to dry fertilizers and tumble thoroughly to evenly disperse the slurry.
- 5. Make sure product is not tacky to the touch before applying through a spreader.

Recommended Application Rates:

Row Crop Agriculture:

In-Furrow: 1.7 oz per acre Broadcast: 3.4 oz per acre

Application rates can vary slightly based on crop types and soil conditions.

Turf and Ornamentals:

3.4 to 6.8 oz per acre (2.2 to 4.4 grams per 1,000 sf)

Application rates can vary greatly based on turf needs and soil conditions.

Apply every 4 to 6 weeks.

Grass Seed/Hydroseed:

3.4 to 6.8 oz per acre (2.2 to 4.4 grams per 1,000 sf)

Application rates can vary greatly based on turf needs and soil conditions.

Perform liquid Bio-D SP application every 4 to 6 weeks after initial seeding.

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