

Dry
Technology



BioNutrients™ SOLUBLE 8-0-9

FOR FAIRWAYS, SPORTS TURF, LAWN CARE, AND TREES

- **PACKED IN EASY-TO-USE 8 OZ PACKS**
- **ORGANIC BIOSTIMULANT & SOIL CONDITIONER**
- **CONTAINS A NATURAL RHIZOSPHERE BACTERIA**

GUARANTEED ANALYSIS:

Total Nitrogen (N)8%
 2.5% Slowly Available Nitrogen*
 Soluble Potash (K₂O)9%
 Iron (Fe)3%
 Zinc (Zn)0.06%

Derived From: Ferrous Sulfate, Plant Protein, Fish Protein Hydrolysate, Potassium Humate.

*2.5% Slowly Available Nitrogen derived from: Plant Protein, Fish Protein Hydrolysate

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

Bacillus subtilis7.5 x 10⁷ CFU per gram
 Bacillus licheniformis1.5 x 10⁸ CFU per gram
 Bacillus amyloliquefaciens1.3 x 10⁸ CFU per gram
 Bacillus pumilus5.0 x 10⁸ CFU per gram
 Yeast (Saccharomyces cerevisiae) .. 2.9 x 10⁸ CFU per gram
 *Colony Forming Units
 20%Humic Acid (derived from Leonardite)
 10%Kelp Extract (Ascophyllum nodosum)
 1.5%Natural Wetting Agent (Yucca schidigera)
 0.001%Gibberellic Acid
 35%Total L-Amino Acids

PRODUCT DESCRIPTION:

BioNutrients is a unique, dry, 100% soluble blend of humic acid, natural wetting agent, kelp, natural L-amino acids and our exclusive combination of beneficial soil bacteria along with fortified natural carriers that add rich organic material to soils. It has the added advantage of containing a natural biostimulant to promote strong rooting. BioNutrients can be used on all fairway grasses, sports turf, lawn care and hydroseeding applications.

The BioNutrients formulation is designed to improve soil quality by adding rich organic nutrients that are often depleted in old and over worked soils. A powerful natural wetting agent insures deep penetration into even the most difficult and compacted soils. Once in the rhizosphere, a combination of L-amino acids, kelp and natural soil bacteria colonize and revitalize the soil with active communities of living soil microbes.

The humic acid and plant extracts are rich in carbon which becomes a food and energy source for the soil bacteria colonies.

MIXING INSTRUCTIONS:

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.

- **REVITALIZES SOIL**
- **PROMOTES FASTER & STRONGER ROOTING**
- **IMPROVES POOR SOILS CONDITIONS**

BioNutrients can be tank mixed with most pesticides, fertilizers and micronutrients. Add approximately half of the water to tank mix, leaving enough room to add other products. Add BioNutrients and agitate tank mix. Do not agitate when



Turf Applications and Rates

Application	Rate	Frequency / Notes
Regular Maintenance Cool and Warm Season Grasses	Rate Per Acre: Mix 1 pack in 20 -50 gallons of water. Apply 1 - 2 packs per acre. For smaller applications mix 1/3 - 1/2 oz (1 tbs.) per gallon water.	Apply monthly throughout growing season
Overseeding, Newly Seeded, Sod	Metric: Rate per Hectare: Mix 1-2 packs in 100- 200 Liters water. For smaller applications mix 1 - 2 grams per Liter water.	Apply at time of seeding and then apply at germination or 14 - 21 days.
Aeration		Apply after aeration.
Hydroseeding	Rate Per Acre: Mix 1 packs in 100 - 200 gallons of water and apply per acre.	Add to equipment tank slurry mix
Divot & Ball Mark Repair:	Mix 1-2 packs per cubic yard sand divot mix. fertilizers. Hand Repair - Lightly sprinkle into divot hole prior to replacement of turf	

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Trees and Ornamentals Applications and Rates

Application	Rate	Notes
Tree & Shrub	Initial Application: 1 lb, or two 8 oz packs, per 50 to 100 gal water. Maintenance: 1/2 lb, or one 8 oz pack, per 50 to 100 gal water.	Soil injection, drench or spray. Per 1,000 sq. ft.
New Plantings, Ornamental Plants, Potted Plants	1/2 lb, or one 8 oz pack, per 25 gal water.	Drench or spray to saturate soil. Per 1,000 sq. ft.
Pre-Digging and Transplants	1 1/2 lbs, or three 8 oz packs, per 100 gal water.	Drench prior to digging and immediately after planting.
Flower Beds	1 lb, or two 8 oz packs, per 25 to 50 gal water.	Drench or spray to saturate soil.

adding herbicides. This will cause foaming. Agitate after the herbicide has been added. Add other products in the following order: 1. urea and other N-P-K fertilizers, 2. pesticides and fungicides, 3. add herbicides last. Agitate between each addition. Use tank mix according to technical material instructions. Be sure to agitate before spraying.

STORAGE & HANDLING:

BioNutrients can be stored in normal dry warehouse areas. Freezing will not affect BioNutrients. It contains 100% natural ingredients and is safe to handle. Agitate before spraying. It has a near neutral pH.

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