**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) .......................... 0.8%
- 2.5% Slowly Available Nitrogen* 0.9%
- 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 subtilis ......................... 7.5 x 10⁸ CFU per gram
- Bacillus licheniformis .................... 1.5 x 10⁸ CFU per gram
- Bacillus amyloliquefaciens ............ 1.3 x 10⁸ CFU per gram
- Bacillus pumilus .......................... 5.0 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)
- 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.

**Revitalizes Soil**
- **Promotes Faster & Stronger Rooting**
- **Improves Poor Soils Conditions**

**Mixing Instructions:**

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.

**Turf Applications and Rates**

<table>
<thead>
<tr>
<th>Application</th>
<th>Rate</th>
<th>Frequency / Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regular Maintenance</strong></td>
<td><strong>Rate Per Acre:</strong> 1 pack in 20 - 50 gallons of water. Apply 1 - 2 packs per acre. For smaller applications mix 1/6 - 1/3 oz (1 lbs.) per gallon water.</td>
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<tr>
<td><strong>Cool and Warm Season Grasses</strong></td>
<td><strong>Rate Per Acre:</strong> 1 pack in 20 - 50 gallons of water. Apply 1 - 2 packs per acre. For smaller applications mix 1/6 - 1/3 oz (1 lbs.) per gallon water.</td>
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<tr>
<td>Overseeding, Newly Seeded, Sod</td>
<td><strong>Rate Per Hectare:</strong> Mix 1 - 2 packs in 100 - 200 liters water. For smaller applications mix 1 - 2 grams per liter water.</td>
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<tr>
<td>Aeration</td>
<td><strong>Rate Per Acre:</strong> Mix 1 pack in 100 - 200 gallons of water and apply per acre.</td>
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<tr>
<td>Hydroseeding</td>
<td><strong>Rate Per Acre:</strong> Mix 1 pack in 100 - 200 gallons of water and apply per acre.</td>
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<tr>
<td>Divot &amp; Ball Mark Repair:</td>
<td><strong>Rate Per Acre:</strong> Mix 1 - 2 packs per cubic yard sand divot mix. Hand Repair - Lightly sprinkle into divot hole prior to replacement of turf.</td>
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**Manufactured in the USA By:**

Growth Products

80 Lafayette Avenue • White Plains NY • 10603 • (800) 648-7626 • www.GrowthProducts.com
### Trees and Ornamentals Applications and Rates

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<tr>
<td><strong>Tree &amp; Shrub</strong></td>
<td>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.</td>
<td>Soil injection, drench or spray. Per 1,000 sq. ft.</td>
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<tr>
<td><strong>New Plantings, Ornamental Plants, Potted Plants</strong></td>
<td>1/2 lb, or one 8 oz pack, per 25 gal water.</td>
<td>Drench or spray to saturate soil. Per 1,000 sq. ft.</td>
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<tr>
<td><strong>Pre-Digging and Transplants</strong></td>
<td>1 1/2 lbs, or three 8 oz packs, per 100 gal water.</td>
<td>Drench prior to digging and immediately after planting.</td>
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<tr>
<td><strong>Flower Beds</strong></td>
<td>1 lb, or two 8 oz packs, per 25 to 50 gal water.</td>
<td>Drench or spray to saturate soil.</td>
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</tbody>
</table>

Tate tank mix. Do not agitate when 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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**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.