

Dry Technology



# BioNUTRIENTS™ SOLUBLE AG 8-1-9

- **Contains Natural Rhizosphere Bacteria**
- **Organic Root Enhancer & Soil Amendment**
- **Speeds Up And Increases Seed Germination**

**GUARANTEED ANALYSIS:**

|  |       |
|--|-------|
| Total Nitrogen (N) .....                                   | 8%    |
| 2.5% Slowly Available Nitrogen*                            |       |
| Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) ..... | 1%    |
| Soluble Potash (K <sub>2</sub> O) .....                    | 9%    |
| Iron (Fe) .....  | 3%    |
| Zinc (Zn) .....  | 0.06% |

**Derived From:** Iron Sulfate, Condensed Fermented Plant Extracts, Fish Meal, Potassium Humate,  
\*2.5% Slowly Available Nitrogen from Plant Protein Hydrolysate

**ALSO CONTAINS NON-PLANT FOOD INGREDIENTS**

|  |                                     |
|--|-------------------------------------|
| Bacillus subtilis .....                | 7.5 x 10 <sup>7</sup> CFU per gram  |
| Bacillus licheniformis .....           | 2.5 x 10 <sup>8</sup> CFU per gram  |
| Bacillus amyloliquefaciens .....       | 7.5 x 10 <sup>7</sup> CFU per gram  |
| Bacillus pumilus .....                 | 7.5 x 10 <sup>7</sup> CFU per gram  |
| Yeast (Saccharomyces cerevisiae) ..... | 4.5 x 10 <sup>10</sup> 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                       |                       |
| Total L-Amino Acids .....                     | 35.7%                 |
| 3.34% Glycine                                 | 0.96% L-Threonine     |
| 5.85% L-Glutamic Acid                         | 1.74% L-Valine        |
| 2.44% L-Aspartic Acid                         | 1.90% L-Phenylalanine |
| 1.63% L-Alanine                               | 1.44% L-Isoleucine    |
| 3.65% L-Proline                               | 0.85% L-Histidine     |
| 3.31% L-Leucine                               | 0.46% L-Methionine    |
| 1.40% L-Lysine                                | 1.19% L-Tyrosine      |
| 1.48% L-Serine                                | 0.70% L-Cystine       |
| 3.19% L-Arginine                              | 0.21% L-Tryptophan    |

**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 field crops. 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 com-

- **Increases Blooming And Fruit Set**
- **Promotes Faster & Stronger Rooting**
- **Improves Poor Soils Conditions**

munities 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.



| Vegetable, Herb - Field & Permanent Crops   |   |  |
|---|---|--|
| Application   | Rate  | Frequency / Notes  |
| <b>Vegetable, Herb &amp; Field Crops Including (but not limited to):</b><br>Berries, Brassica, Bulb Vegetables, Cole Crops, Cucurbits, Fruiting Vegetables, Grains, Herbs and Spices, Leafy Vegetables, Legumes, Rice, Root, Tuber and Corn Vegetables, Tropical and Sub Tropical Fruit | <p><b>Rate Per Acre:</b><br/>Mix 1 - 2 packs per 40 - 100 gallons of water and apply per acre. For smaller applications mix 1/3 - 1/2 oz (1 tbs.) per gallon water.</p> <p><b>Metric:</b><br/><b>Rate per Hectare:</b><br/>Mix 2-5 packs in 100-200 Liters water. For smaller applications mix 2 - 3 grams per Liter water.</p> | <p>Apply after transplanting, thinning or at 2nd true leaf stage.</p> <p>Apply 1 - 2 subsequent applications at 10-15 day intervals. Use as needed to supplement nutritional requirements.</p> |
| <b>Permanent Crops Including (but not limited to):</b> Vines & Caneberries, Citrus, Grapes, Nut Crops, Pome Fruit   | <p>Mix 2-5 packs in 100-200 Liters water. For smaller applications mix 2 - 3 grams per Liter water.</p>   | <p>Apply first application prebloom. Apply subsequent applications at mid-crop, and 3 -4 weeks prior to harvest or as needed to supplement nutritional requirements.</p>                       |

| Transplanting |  |                                    |
|---------------|--|------------------------------------|
| Application:  | Rate   | Frequency / Notes                  |
| Transplanting | Mix 1/3 - 1/2 ounce per gallon water ( 2- 3gm per Liter water) | Drench plant at time of transplant |

**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 tank mix. 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.

**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.

**Condition of Sale and Warranty:** Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

*Manufactured in the USA by:*

