



TURF & ORNAMENTAL

BioNutrients[®] 8-0-9

- For Fairways, Sports Turf, Lawn Care, Trees & Ornamentals
- Contains a diverse mix of beneficial soil bacteria
- Added nutrition supports beneficial soil microbes and plant vigor
- Improves plant nutrient uptake and stress tolerance

Net Weight:



BioNutrients 8-0-9

F002873



OPEN
Resealable
Label

Guaranteed Analysis:

Total Nitrogen (N)	8%
8% Water Soluble Nitrogen	
Soluble Potash (K ₂ O)	9%
Derived From: Soy Protein Hydrolysate, Fish Protein Hydrolysate, Potassium Hydroxide, Kelp extract (Ascophyllum nodosum)	

Soil Amending Ingredients:

Humic Acid (derived from Leonardite)	15%
Wetting Agent (Yucca schidigera)	2%
Bacillus subtilis	2.41 x 10 ⁸ CFU* per gram
Bacillus licheniformis	2.50 x 10 ⁷ CFU* per gram
Bacillus amyloliquefaciens	1.24 x 10 ⁸ CFU* per gram
Bacillus pumilus	1.75 x 10 ⁸ CFU* per gram
Yeast (Saccharomyces cerevisiae)	2.0 x 10 ⁸ CFU* per gram
Total Other Inert Ingredients	83%
*Colony Forming Units	

Product Description:

BioNutrients™ 8-0-9 contains a diverse mix of beneficial soil bacteria. Additionally, BioNutrients™ 8-0-9 contains a natural wetting agent, soil conditioners, and microbe food. Easy to apply on new and existing trees and landscaped areas.

For Professional Use Only. For Non-Food Use Only.

Note: It is suggested that you pre-dissolve the material and run it through 100 mesh screen, then put it into a tank for spraying. Not necessary to do with tree injection tanks or hydro seeding machines.

Microbe count may begin to decline 2 years from manufacturing date printed on container.

NOTE: Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn/garden and sweep any product that lands on the driveway, sidewalk or street back onto your lawn/garden.

Information about the components of this lot of fertilizer may be obtained by writing to Douglas Plant Health, 1550 E. Old 210 Highway, Liberty, MO 64068 and giving the lot number which is printed on the front of the container.

The following precautionary statements and pictograms are based on the Globally harmonized system of classification and labeling of chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA).

Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and exposed skin thoroughly after handling. Avoid breathing dust or spray. Use only outdoors or in a well-ventilated area.

⚠ DANGER

- Causes Skin Irritation
- Causes Serious eye irritation
- May cause cancer
- May cause respiratory irritation




Condition of Sale and Warranty: Douglas Plant Health 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 Douglas Plant Health 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 DOUGLAS PLANT HEALTH, LTD OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

FIRST AID	
IF SWALLOWED:	Call a poison center or doctor. Rinse mouth. If exposed or concerned: Get medical advice/attention
IF IN EYES:	Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
IF ON SKIN:	Wash with plenty of water and soap. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention
IF INHALED:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
You may also contact 1-352-323-3500 day or night for emergency treatment information. If medical advice is needed, have product container or label at hand (P101), keep out of reach of children (P102), Read label before use (P103).	
STORAGE: Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets. Store locked up in a well-ventilated place	
DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.	

Douglas Plant Health

1550 E. Old 210 Highway
Liberty, MO 64068
(800) 648-7626

www.DouglasPlantHealth.com



Turf Application Rates

Application	Rate	Frequency / Notes
Regular Turf Maintenance	Mix 1/2-1 pound of pre-dissolved material in 50 – 100 gallons of water per acre. Metric: Rate per Hectare: Mix 250-500 grams in 400- 800 Liters water.	Apply monthly throughout growing season.
Overseeding, Aeration, Newly Seeded Areas, Sod Overseeding, Aeration, Newly Seeded Areas, Sod	Apply 1/4-1 pound of material per 5,000 sq. ft. Metric: apply 125-500 grams, per 465 sq meters.	Apply at time of aeration, sodding or seeding in the seed hopper or with starter fertilizer and re-apply monthly as needed.
Hydroseeding	Mix 1/4 -1 pound of material per 5,000-8000 sq.ft per 500-800 gallons of slurry. Metric, mix 125-500 grams of material per 465-745 sq. meters, per 1895-3025 liters.	Add to tank before seed and mulch.
Sand Topdressing or Divot & Ball Mark repair	Mix 1/2-1 pound of material per cubic yard. Hand Repair: Lightly sprinkle into divot hole prior to replacement of turf. Metric: mix 250-500 grams per cubic yard.	Mix thoroughly with sand just prior to use.

Greenhouse, Nursery & Landscape Rates

Application	Rate	Frequency / Notes
Tree and Shrub Care, Non-fruit bearing trees	Initial Application: Mix 1 pound of material per 100 gallons water. Maintenance: 1/2 pound per 100 gallons water. Metric: 250-500 grams per 400 liters	Soil inject, drench or spray at appropriate rates to ensure proper soil penetration.
New Field Plantings and Landscape Transplants	Mix 1/2-1 pound of material per 100 gallons. Metric: 250-500 grams per 400 liters	Drench or sprenc at appropriate rates to ensure proper soil penetration.
Greenhouse Plants, Injection systems	Initial planting: Mix in 1/4-1 pound per gallon stock tank at 1:100. Constant feed, mix 8 grams per gallon stock tank at 1:100. Metric: Mix 125-450 grams per 4 liter stock tank at 1:100. Constant feed, mix 8 grams per 4 liter stock tank at 1:100	Drench or sprenc at appropriates rates to ensure proper soil penetration.
Annual Flower and Perennial Beds	Mix 1-2, 8 ounce packs per 100 gallons. Metric: 226-454 grams per 400 liters	Drench or sprenc at appropriate rates to ensure proper soil penetration.
Granular Fertilizer Addition	Mix is 1-5 pounds per 2000 pounds of fertilizer. Metric; 1/2 to 2.25 kilograms per ton of fertilizer	Mix last into blender.