



TURF & ORNAMENTAL

# Essential<sup>®</sup> Plus 1-0-1

- Revitalizes Soil
- For Seeding & Overseeding
- Promotes Nutrient Absorption
- Provides a Food Source for Beneficial Microbes

Net Contents: 2.5 Gallon (9.46 Liters)  
Net Weight: 23.7 lbs (10.78 kg)

# Essential<sup>®</sup> Plus 1-0-1

F002873

OPEN  
Resealable  
Label

## Guaranteed Analysis:

Total Nitrogen (N) . . . . . 1%  
    1% Water Soluble Nitrogen  
Soluble Potash (K<sub>2</sub>O) . . . . . 1%  
Iron (Fe) . . . . . 0.29%  
    0.29% Chelated Iron (Fe)

Derived From: Fish Protein Hydrolysate, Potassium Hydroxide, Iron EDTA

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

SOIL AMENDING INGREDIENTS:

7% . . . . . Humic Acid (derived from Leonardite)  
0.05% . . . Seaweed Extract (Derived from  
    Ascophyllum nodosum) (Microbe Food)  
2% . . . . . Glucose (Microbe Food)  
0.002% . . . . Natural Wetting Agent (Yucca schidigera)  
3% . . . . . Monosaccharide (Dextrose)

Product Specifications:

Weight per gallon . . . . . 9.48 lbs.  
Weight per liter . . . . . 1.14 kg  
pH . . . . . 4.7

## Product Description:

Essential Plus 1-0-1 is a 100% natural soil amendment derived from potassium hydroxide, organic proteins, sugars and a natural wetting agent. A colloidal liquid solution that provides a rich source of organic building blocks not found in typical nitrogen-phosphorus-potassium (NPK) fertilizers. Essential Plus contains humic acid to replenish

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

soils that have been depleted of organic matter, helps alleviate soil compaction, and provides a food source for beneficial soil microorganisms. It is compatible with most other fertilizers and products and requires no special handling. When tank mixing Essential it is best to perform a compatibility jar test.

## Storage & Handling:

Essential should be stored in room temperature warehousing and avoid freezing conditions. It should not be stored in direct sunlight or temperatures above 95° F for long periods of time. Replace cap after using. Never store exposed to the air. Since Essential contains a high percentage of solids it is important to shake the container well before use. Agitate 30 (113 liter) and 55 gallon (208 liter) drums frequently before use.

Not For Use On Food Crops

FIRST AID	
IF SWALLOWED:	Call a poison center or doctor. Rinse mouth.
IF IN EYES:	Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
IF ON SKIN:	Remove clothing around the area if present and easy to do. Rinse continuously with soap and water for several minutes.
IF INHALED:	Call a poison center or doctor if you feel unwell.
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. DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse 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).

## Warning



H316 Causes Mild Skin Irritation (or Dermatitis in Some Individuals Upon Prolonged Contact)  
H320 Causes Eye Irritation (Burning)

## Douglas Plant Health

1550 E. Old 210 Highway  
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www.DouglasPlantHealth.com



### Turf & Ornamentals:

Essential is ideal for a variety of golf course, lawn care, landscape, sports turf, and tree care applications. Regular use of Essential Plus also reduces the effect of soil compaction and improves water penetration. Plants require more than just NPK fertilizers to remain vital and productive. Essential Plus contains sugars and other soil amending ingredients to help plants thrive.

#### Soil Applied Only

Turf Applications		
Application	Rate	Frequency / Notes
Regular Maintenance	2-5 ounces in 1-4 gallons of water per 1000 sq.ft . Metric: (60-150 ml) in 4-15 liters water per 100 m <sup>2</sup>	Greens apply every 14-28 days. Fairways apply monthly. Sports Turf apply monthly. Lawn Care apply monthly.
Overseeding, Aeration, Newly Seeded Areas, Sod	2-5 ounces in 1-4 gallons of water per 1000 sq.ft . Metric: (60-150 ml) in 4-15 liters water per 100 m <sup>2</sup>	Apply after time of aeration, before sodding and after seeding. Re-apply monthly as needed until fully established.
Hydroseeding	15-25 oz per 5,000-8000 sq.ft. per 500-800 gallons of slurry. Metric: (445-740 ml), per 465-745 sq. meters, per 1.8-3.0 kiloliters.	Add to tank before seed and mulch. Re-apply monthly at seeding rate as needed until fully established.

### Horticultural & Greenhouse Applications:

Essential Plus is an easy to use liquid formulation that can be utilized as a drip prior to planting. It can be applied through a drip irrigation system, or via hand watering. It contains a safe, non-phytotoxic wetting agent derived from the yucca plant, which assures quick penetration into soils that are often difficult to wet.

NON-FOOD USE ONLY. DO NOT APPLY TO FOOD OR FEED CROPS.

Greenhouse, Nursery & Landscape Applications		
Tree and Shrub Care, non-fruit bearing trees	Initial Application: 32-64 ounces per 100 gal water. Maintenance: 32 ounces per 100 gal water. Metric: 1-2 liters per 375 liters.	Soil inject, drench or spray at appropriate rates to insure proper soil penetration. 2 inch DBH Caliper Tree requires 1.5 gallon solution within the tree drip line area and 1 foot from the flair of the tree. Either with tree soil injection or soil drench techniques.
New Field Plantings and Landscape transplants	Initial Application: 32-64 ounces per 100 gal water. Maintenance: 32 ounces per 100 gal water. Metric: 1-2 liters per 375 liters	Drench or sprench at appropriate rates to insure proper soil penetration.
Annual Flower and Perennial Beds	At Planting, 16- 32 ounces per 100 gallons. Metric: 1/2 to 1 liter per 375 liters	Drench or sprench at appropriate rates to insure proper soil penetration. Re-apply monthly at 16 ounces per 100 gallons or 1/2 liter per 400 liters.
Greenhouse plants, injection systems	Initial plug planting or seeding: 16-32 ounces per gallon stock tank at 1:100. Constant feed, 1-2 ounces per gallon stock tank at 1:100. Metric: Initial plug planting or seeding, 1/2-1 liter per 3.75 liter stock tank at 1:100. Constant feed, mix 30-60 ml per 3.75 liter stock tank at 1:100	Drench, sprench or spray at appropriate rates to insure proper soil penetration.
Hydroponics, Constant Feed, Ebb and Flood	Seeds or Plugs, Mix 1-2 fl oz per gallon of water. Metric: 4-8 ml per 3.75 liter water. Charging, 4-8 fl oz per 150 gallons. Metric: 15-30 ml per 1/2 kiloliter. Recharging, 2-3 fl oz per 150 gallons water. Metric: 60-90 ml per 1/2 kiloliter	Soak seeds or plugs in a solution before placing them in growing trays. Charging, run through system. Recharging when new water is added.