



# Essential<sup>®</sup> Plus 1-0-1

F002873

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

**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

Not For Use On Food Crops

**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 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.

**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

**Horticultural & Greenhouse Applications:**

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.

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.



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## 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.