



New Charts!

ESSENTIAL® PLUS 1-0-1

100% NATURAL PLANT & ROOT STIMULANT

- For Planting, Transplanting & Sizing Up
- Overcomes Transplant Shock
- Neutralize Salt Build Up
- Rapid & Healthy Root Growth

GUARANTEED ANALYSIS:

Total Nitrogen (N)1%
 1% Other Water Soluble Organic Nitrogen
 Soluble Potash (K₂O)1%
 Iron (Fe)0.29%
 Derived From: Kelp (Ascophyllum nodosum), Fish Hydrolylsate, Fermented Plant Extracts, Iron Glucoheptonate.

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

Humic Acid (derived from Leonardite) 7%
 Cellulose Fiber 10%
 Natural Rooting Substance 0.01%
 Natural Wetting Agent (Yucca Schidigera) 0.0025%
 Gibberellic Acid 0.001%
 Kelp Extract 0.1%
 Lignin 1.2%
 Mono/ Disaccharides (Maltodextrin) 3%
 Ash Content 2%
 Total L-Amino Acids 2.75%
 L-Amino Acid 0.53%
 0.53% Glycine
 0.39% L-Glutamic Acid
 0.35% L-Aspartic Acid
 0.26% L-Alanine
 0.19% L-Proline
 0.17% L-Leucine
 0.16% L-Lysine
 0.16% L-Serine
 0.12% L-Arginine
 0.10% L-Threonine
 0.10% L-Valine
 0.08% L-Phenylalanine
 0.07% L-Isoleucine
 0.04% L-Histidine
 0.02% L-Methionine
 0.01% L-Tyrosine
 Trace% L-Carnosine
 Trace% L-Citrulline
 Trace% L-Cystine
 Trace% L-Beta-Alanine
 Trace% L-Taurine
 Riboflavin (B2) 0.003 %
 Vitamin (B6) 0.314%
 Weight per gallon 8.99 lbs.
 Weight per litre 1.07 kg

PRODUCT DESCRIPTION:

Essential® Plus provides a safe alternative to the use of chemical hormones like IBA and NAA for the propagation of cuttings. Essential Plus is a true organic solution containing several unique ingredients with auxin-like activities known to stimulate callus formation and rooting on softwood and hardwood cuttings. Essential Plus contains humic acid derived from Leonardite, kelp extract and a proprietary plant extract, which

- For Greener, Denser, & More Vigorous Plants
- Quicker Seed Germination
- Apply Through Any Irrigation System
- Saves Hours Of Labor When Applied As A Drench

promote rooting. Side by side trials with IBA have proven that Essential Plus produces faster rooting and greater root mass than IBA.

Essential Plus is an easy to use liquid formulation that can be utilized as a dip prior to planting or as a time saving drench. It is pasteurized and free of pathogens. It can be applied through a sprayer, drip irrigation system, or via hand watering, saving many hours of production labor. 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. It is manufactured from only natural organic ingredients.

As an added benefit, Essential Plus promotes other aspects of plant physiology, including photosynthesis, hormonal activity, respiration and ion uptake during the plant's growth cycle. Essential Plus contains two ingredients that speed up seed germination. It quickly softens the seed coat, allowing water penetration and faster, more uniform germination even on tough seed coats.

APPLICATION RECOMMENDATIONS:

Essential Plus needs no mixing and will not settle out of solution. It can be applied through any type of fertigation system, drip irrigation or spray equipment. Use Essential Plus on all types of softwood cuttings, hardwood cuttings, vegetable plugs, bedding plants, perennials, small and large transplants and for seed germination.

Essential Plus is an easy, labor saving alternative to IBA dip. Simply use as a drench when planting cuttings. (Rates below)

Cuttings For All Types of Herbaceous, Softwood, Semi-Hardwood, & Hardwood Cuttings		
Application Method:	Rate	Frequency / Notes
Drench Rate:	Mix 4 oz per gallon of water (120 ml per 4 L water)	Drench trays after sticking. Re-apply at callus formation or in 4 weeks
Dip Rate:	Mix 1 oz per 30 oz of water (1:30 ratio) 30 ml per L water	Dip basal end of cuttings, individually or in bunches, for 5 seconds

Horticultural Applications

Application	Rate	Frequency/ Notes
Sizing-Up, Transplanting, Re-Potting	4 oz per gallon of water (120 ml per 4 L water)	Drench plant trays, liners or pots after planting
Tissue Culture	3.2 oz per 10 gal of water (50 ml per 40 L water)	Drench plug trays until thoroughly soaked
Seeding	Drench: 2 oz per gallon of water (60 ml per 4 L water)	Drench seed trays or plug trays until thoroughly soaked at time of seeding
	Seed Soak: 12 oz per 100 lbs of seed (360 ml per 50 kg seeds)	Spray directly on seed prior to sowing
Hydroponics, Constant Feed, Ebb and Flood	Charging: 8 oz per 150 gallons of water (240 ml per 550 L water)	Run through system
	Recharging Rate: 3 oz per 150 gallons of water (85 ml per 550 L water)	Replenish every time water is added

Plant Care & Propagation For All Types of Greenhouse & Nursery Crops

Application	Rate	Frequency /Notes
Plant Propagation:	32 oz per 100 gal of water (1 L per 400 L water)	Drench monthly
Stress Recovery	2 oz per gal of water (60ml per 4 L water)	Apply every 2 weeks until visual response
Neutralize Salts, Repair Phytotoxicity Damage	4 oz per 1,000 SF ² of pot area (120 ml per 100 m ²)	Apply every two weeks for 2 applications

Injection Ratio

Injector Ratio	1:100	1:200
Essential Per Gal of Water	32 fl oz. (1 L)	64 fl oz.(2 L)

Foliar Feeding: Apply this product through overhead, micro-jet, center pivot sprinkler irrigation. Essential Plus 1-0-1 gives you dual efficiency since the nutrients will be absorbed by both the leaves and roots. See ppm chart for rates. For tender plants and greenhouse foliar spray applications use one-

half the rate (PPM) you would normally use for drip irrigation feeding. For Hand spray use 1¼ oz to 2½ oz per gallon of water. Spray to full coverage.

Foliar Spray Rates

Essential Per Gal of Water	¼ - ½ fl.oz. or 1 tsp - 1 tbs. (7-15 ml per 4 liters of water)	Spray until run off
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MIXING / COMPATIBILITY:

Since Essential Plus contains a high percentage of solids, mix or shake well before use. Essential Plus is made from natural organic products and is therefore safe to handle and use. Essential Plus is compatible with all fertilizers and chemical pesticides.

Handling & Storage:

Essential Plus should be stored in normal warehouse conditions. Do not store in direct sunlight or above 100° for long periods of time. Replace cap after using. Never leave container open to air.

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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.

Manufactured By:

