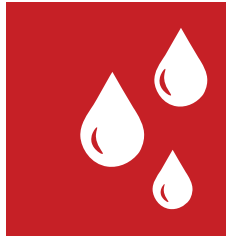


Liquid  
Bio-Fertilizer  
for Roots



# SuperRoots™

With SuperTrace, Nutrex-M/F, SoilSeeds, Mycorrhizae & Fulvic Acid\*

NOT FOR DISTRIBUTION IN THE STATE OF OREGON

**5-0-6 – 2% Naturally Chelated Iron**

**No Phosphates - No EDTA**

\* Fulvic acid is derived from ancient shale, the most thoroughly composted vegetation on Earth.

**SuperRoots™** is a proprietary suspended concentrate bio-fertilizer for tree and shrub root treatments and turf application after aeration. **SuperRoots™** contains **Nutrex-M/F™** stabilized macro-nutrients, **SuperTrace™** fully chelated micro-nutrients in a solution of a gentle organic acid, endo-ecto mycorrhizae with trichoderma/scleroderma root shield fungi, and **SoilSeeds™** with plant-derived microbes and fulvic acid (USDA organic compliant). **SuperRoots™** is not toxic to plants when used as directed. Biological activity may occur (float on the surface) when stored for extended times. If this occurs, in-line screens should be used to prevent nozzle clogging. To protect from degradation, do not store in sunlight or near heat source.

Net contents: 2.5 gal   Net weight: 23.63 lb   Density: 9.45 lb/gal   Batch Code: 030314SR   Expiration: 03-03-2017



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A Portion of the Proceeds from this Product Goes to Support the Northwest Parkinson's Foundation – [www.nwpf.org](http://www.nwpf.org)

### Guaranteed Analysis (By Weight)

Nitrogen (N)	5.00%
5.00% Urea Nitrogen	
Soluble Potash (K <sub>2</sub> O)	6.00%
Iron (Fe)	2.00%
2.00% Chelated Iron	
Manganese (Mn)	0.125%
0.125% Chelated Manganese	
Molybdenum (Mo)	0.001%
Zinc (Zn)	0.050%
0.050% Chelated Zinc	

**Derived from:** Urea, potassium hydroxide, sodium molybdate, and fulvic citrate sulfate chelates of iron, manganese, and zinc.

**Contains non-plant food ingredients:** Endo/ecto mycorrhizae with trichoderma/scleroderma root shield fungi, dormant microbes, ascophyllum nodosum from brown seaweed, Dicyandiamide, N-(n-butyl) thiophosphoric triamide ammoniacal nitrogen additives.

Lactobacillus perans 5.9 x 106 CFU/ml  
Lactobacillus paracasei 5.9 x 106 CFU/ml

**Information** regarding the contents and levels of metals in this product is available on the internet at:

<http://www.aapfco.org/metals.htm>

**CAUTION:** This fertilizer is to be used only on crops which respond to molybdenum. Crops high in molybdenum are toxic to grazing animals (ruminants).

**WARRANTY:** Plant Essentials, LLC warrants that this product conforms with the guaranteed analysis. No other warranty is expressed or implied including any consequential damage, injury, or loss due to the use of this product by itself or in combination with any other product. Any liability is limited to product replacement.

## Tank mix with water and apply to soil. No other additives needed.

### FIELD GROWN NURSERY STOCK:

Apply at the rate of 2-5 gal of **SuperRoots™** per acre in 20-200 gal of water. Immediately irrigate following application to soil. **DO NOT APPLY TO FOLIAGE.** In case of accidental foliage contact, rinse with water immediately.

### TREES & SHRUB ROOT FERTILIZING:

**Surface application:** Mix 2.5 gal of **SuperRoots™** with 10 gal of water per 1,250 sq ft. Apply with a shower-head gun to the soil over plant roots. **DO NOT APPLY TO FOLIAGE.** In case of accidental foliage contact, rinse with water immediately. For best results, apply in spring and fall. Mulch will inhibit movement of this product to the soil. Apply directly to soil for best results.

**Sub-soil injection (moist soil only):** Mix 2.5 gal of

**SuperRoots™** with 10 gal of water. Inject 2 oz of diluted

**SuperRoots™** per injection site (based on using 200# pressure with a 3/8" hose), 1-4" deep in a 15 inch grid pattern from the stem or trunk to 2.5 ft beyond the drip line. Start injections under any mulch. Do not apply more than 4" deep in soil. **Dry soil should be watered to a depth of 6" before treatment.**

**Treating roots under grass:** Treating roots in turf requires deeper injection because of root competition and bacterial/fungal antagonism. Inject **SuperRoots™** below the grass roots where feasible. Ideally, grass cover should be removed and certified pathogen free compost installed to provide the best conditions for healthy plant root development.

### WATERING:

Watering within a few hours after application is recommended for maximum mycorrhizal colonization and microbial proliferation.

**THIS PRODUCT MAY BE APPLIED AT A MAXIMUM RATE OF 4 GALLONS (38.24 LBS) PER 1,000 SQ FT PER YEAR.**

### TURF AFTER AERIFICATION:

**Greens & tees:** Apply 8-16 fl oz **SuperRoots™** in 1-2 gal water per 1,000 sq ft. Add more nitrogen if desired.

### WATERING:

Watering within a few hours after application is recommended for maximum mycorrhizal colonization and microbial proliferation.

**Compatibility:** This product is compatible in a tank mix with Subdue, Phosphite and Medallion fungicides for root rot treatments, and will not hinder the function of the biological components. Other combinations may be acceptable, but testing should be done to ensure the biological components are protected and other compatibility issues are addressed.



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Years of extensive field use of this product have proven **SuperRoots™** to be a valuable, easy-to-apply product when used as directed in a treatment-based plant health care program. If plants do not respond, steps should be taken to determine if there are soil conditions that would hinder plant health. Some examples are: improper site location, improper soil pH level, poor planting and/or watering practices, the presence of root rotting disease pathogens or insects, and soil compaction.