

# ASSURE



## Biologically Enhanced Tree Spikes

Biologically Enhanced Fertilizer Spikes  
Simultaneously Feeds Plant & Enhances Biological Activity

Contains BOTH Mycorrhizal & Rhizobial Microorganisms  
Mycorrhizae Form Symbiotic Relationship With Root System To Facilitate  
Nutrient Absorption & Promote Plant Establishment

Rhizobia Colonize Rhizosphere Where They Provide Increased Resistance  
To Environmental Extremes (heat, drought, salinity), Stimulate Plant Growth,

Promote Nutrient Retention & Enhance Photosynthetic Capacity

Slow Release Formula Releases Nutrients & Beneficial Microbial Species  
Throughout Growing Season

Complete Nutritional Package, Contains Macro & Micronutrients

### APPLICATION SPECIFICS - ESTABLISHED

Best applied in moist soil to facilitate insertion into soil. Feed established trees in Late Spring for optimum results. Punch holes in soil 12 – 16" deep at 1 ½ - 2 foot intervals around drip line, insert spike, heal in & water thoroughly. If punching holes is not feasible, hammer spikes into ground (caps supplied), remove cap & counter sink an additional 6". Always heal holes closed and never insert spike within 2 feet of trunk. Do not apply spikes late in growing season, may push growth that will not have a chance to harden off.

PLANT DIAMETER AT BREAST HEIGHT	QUANTITY OF SPIKES
4"	2
6"	3
8"	4
10"	5
12"	7
15"	10
18"	12
24"	16

## STORAGE & HANDLING

Store product in original container with box tightly secured. Store in a cool area (40° – 110° F.) out of direct sunlight. Moderately irritating to eyes avoid contact. If contact occurs flush eyes with cool water for 15 minutes and consult physician if irritation persists. Do not ingest. If swallowed drink copious amounts of water and contact physician. Wash your hands thoroughly after handling product. Please refer to MSDS Sheet for more detailed information.

## GUARANTEED ANALYSIS

Total Nitrogen (N).....	5.0 %
4.39 % Ammoniacal Nitrogen	
0.61 % Nitrate Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	5.0 %
Soluble Potash (K <sub>2</sub> O).....	8.0 %
Sulfur (S).....	5.0%
5.00% Combined Sulfur (S)	
Total Iron (Fe).....	4.0%
4.00% Water Soluble Iron (Fe)	
Total Manganese (Mn).....	2.00%
2.00% Water Soluble Manganese (Mn)	

## NUTRIENTS DERIVED FROM

Ammonium Sulfate, Sulfate of Potash, Di-ammonium Phosphate, Potassium Nitrate Ferrous Sulfate, Manganese Sulfate

## ALSO CONTAINS NON PLANT FOOD INGREDIENTS

### Endomycorrhizal Fungi

Glomus intraradices 1 viable organism per gram, Glomus mossae 1 viable organism per gram,  
Glomus aggregatum 1 viable organism per gram, Glomus etunicatum 1 viable organism per gram  
Glomus deserticola 1 viable organism per gram

### Ectomycorrhizal Fungi

,Pisolithus tinctorius 5,000 viable organisms per gram Rhizopogon villosulus 2,000 viable organisms per gram, Rhizopogon luteolus 2,000 viable organisms per gram, Rhizopogon amylopogon 2,000 viable organisms per gram, Rhizopogon fulvigleba 2,000 viable organisms per gram

### Rhizobial Microorganisms

Streptomyces coelicolor 25,000,000 CFU per gram, Streptomyces griseus 25,000,000 CFU per gram,  
Trichoderma reesei 25,000,000 CFU per gram, Trichoderma hamatum 25,000,000 CFU per gram  
Bacillus subtilis 10,000,000 CFU per gram, Bacillus licheniformis 10,000,000 CFU per gram,  
Bacillus pumulis 10,000,000 CFU per gram, Bacillus azotoformans 10,000,000 CFU per lb  
Bacillus firmus 10,000,000 CFU per gram, Bacillus amyloliquefaciens 10,000,000 CFU per gram  
Bacillus megaterium 10,000,000 CFU per gram, Bacillus coagulans 10,000,000 CFU per gram  
Paenibacillus polymyxa 10,000,000 CFU per gram, Paenibacillus durum 10,000,000 CFU per gram,

### Microbial Nutrients

2.50 % Dextrose, 1.25 % Sucrose, 1.00 % Amino Acids, 0.50 % Vitamins (Biotin, Thiamine)0.250 % Potassium Humate,  
0.250 % Kelp