

PHC[®] Ecto-Injectable

PHC[®] Ecto-Injectable is designed specifically for ecto-mycorrhizal fungi tree species. PHC[®] Ecto-Injectable contains a cocktail blend of ectomycorrhizal fungi, yucca plant extract and includes PHC[®] BioPak[®] with its beneficial rhizosphere bacteria. Please refer to the compatibility list in the next column to reference which tree species are specific to ectomycorrhizae. PHC[®] Ecto-Injectable introduces spores of selected species of ectomycorrhizal fungi to the root zone. These fungi colonize the roots and:

- Increase absorption and transfer of water and mineral nutrients from the soil to the plants
- Help plants mitigate adverse environmental conditions such as drought, soil salinity, and extremes of soil pH.

PHC[®] Ecto-Injectable also introduces six species of beneficial rhizosphere bacteria which improve soil fertility by:

- Fixing atmospheric nitrogen
- Solubilizing mineral phosphorus
- Biodegrading soil organic matter, releasing mineral nutrients

DIRECTIONS FOR USE

ESTABLISHED TREES AND SHRUBS: Mix one packet per 50 gallons of water to treat 1250 square feet. Agitate the mix thoroughly before application. Spray tanks with good agitation are recommended. Inject the mixed product under cool pressure (150-200 psi maximum) into the upper 8 to 10 inches of the root zone with the use of a soil probe at a rate of 1 quart on 2.5 to 3 foot centers. At a minimum, treat the root zone under the canopy and when possible, beyond the drip line. Avoid hot injection systems, as prolonged heat above 120° F can kill the spores.

B&B TRANSPLANTS: Mix two packets per 100 gallons of water, agitate thoroughly, inject into root ball and outside edges under 150-200 psi maximum with a soil probe at a rate of 1 quart per probe site. Avoid hot injection systems, as prolonged heat above 120° F kills the spores. Refer to the chart below:

APPLICATION RATES			
Caliper	Rootball diam.*	Rate per Tree	# Injection Sites
2 inch	24 inch	1.5 gallons	6
3 inch	36 inch	2 gallons	8
4-5 inch	48-50 inch	3 gallons	12
6 inch	60 inch	4 gallons	16
7 inch	70 inch	5 gallons	20
8 inch	80 inch	6 gallons	24

* Root ball diameters are based on tree size according to American Nursery Standards.

Mixed solution should be used within a 12 hour period.

DRENCH APPLICATION: Determine the total square feet of soil beneath canopy of tree(s) to be sprayed. Use a minimum of 25 to 30 gal of spray solution per acre. Apply 1 pound per 2500 square feet (water volume may vary) to the soil beneath the tree canopy. Follow with irrigation to wash the product into the soil.

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SOIL INJECTABLE ECTO-MYCORRHIZAL FUNGAL INOCULANT

GUARANTEED ANALYSIS SOIL/PLANT AMENDING INGREDIENTS

Ectomycorrhizal Fungi.....3.7 Billion spores/Lb
3.55 Billion spores/Lb *Pisolithus tinctorius*
178 Million spores/Lb *Scleroderma citrinum*

Rhizosphere *Bacillus spp*24 Billion cfu/Lb
4 Billion cfu/Lb *Bacillus licheniformis*
4 Billion cfu/Lb *Bacillus megaterium*
4 Billion cfu/Lb *Bacillus polymyxa*
4 Billion cfu/Lb *Bacillus subtilis*
4 Billion cfu/Lb *Bacillus thuringiensis*
4 Billion cfu/Lb *Paenibacillus azotofixans*

SOIL/PLANT AMENDING INGREDIENTS.....% by Weight
Maltodextrin42%
Humic acids15.8%
(derived from Leonardite)
Yucca plant extract12.9%
(derived from *Yucca schidigera*)
Soluble seaweed extract11.9%
(derived from *Ascophyllum nodosum*)
Yeast extract2.8%

INERT INGREDIENTS14.6%
6.7% Non Humic Acid components of Leonardite extract
6.2% Citric Acid
1.7% Polyethylene glycol

COMPATIBILITY

Ectomycorrhizae benefit conifers and hardwoods, such as: *Pine, Beech, Spruce, Birch, Hemlock, Hickory, Basswood, Pecan, Larch, Willow, Cypress, Oak, Eucalyptus, Cedar, Chestnut and Fir*. Use PHC[®] Injectable for other tree species as it contains both endo and ectomycorrhizae plus Colonize™, a mycorrhizal stimulant that enhances root colonization of endomycorrhizae.

STORAGE/SHELF LIFE

This product is stable in cool, dry storage conditions. See expiration date on package.

HEALTH AND SAFETY INFORMATION

- In case of allergic reaction(s), treat symptoms and contact physician.
- Avoid breathing dust or spray mist.
- Wash hands after handling.
- In case of ingestion, seek medical attention.
- Keep out of reach of children.

PACKAGING

8-oz packs, 4 per box

TECHNICAL ASSISTANCE

For technical assistance, call 1-800-421-9051

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