



DATA SHEET #14

CONTAINS BOTH ENDO AND ECTO

# DIEHARD™ Starter Mix



**“The Industry's First Complete Mycorrhizal Drench”**

DIEHARD™ Starter Mix is formulated to be used as a propagation amendment treatment with live beneficial mycorrhizal fungi to inoculate the roots of plants being propagated. It contains highly selected strains of low host specificity ecto and endomycorrhizae fungi that will quickly colonize the roots of plants to provide the best possible conditions for the roots to become associated with mycorrhiza. The mycorrhizal inoculants are combined with humic acids, stimulants, beneficial bacteria, soluble sea kelp, and yucca plant extracts, to promote rapid root development. The soluble components of this formulation is managed with Horta-Sorb® SM which also protects the mix from drying out.

## Product Benefits

### IMPROVES

Survival  
Rooting  
Flowering  
Water Absorption  
Nutrient Availability  
Yields and Production  
Client Satisfaction  
& Goodwill

### REDUCES

Plant Losses  
Fertilizer Use  
Need Of Pesticides  
Heat Stress Damage  
Irrigation Frequency  
Losses From Drought  
Conditions

## Directions For Use

Mix with propagation media at the rate of 2 pounds per cubic yard of mix to treat 2,500 plants.

## Storage & Handling

Store in a cool, dry place. Avoid high temperatures and direct sunlight. Product shelf life is up to 18 months.

## Non Plant Food Ingredient

Endomycorrhizal	75 Propagules per cc. <i>Glomus mosseae</i> (15), <i>Glomus intraradices</i> (15), <i>Glomus fasciculatum</i> (15), <i>Glomus dussii</i> (7.5), <i>Glomus clarum</i> (7.5), <i>Glomus deserticola</i> (7.5), <i>Glomus microaggregatum</i> (7.5).
Ectomycorrhizal	2,080,000 spores per cc to include: <i>Pisolithus tinctorius</i> (1,788,800) and <i>Rhizopogon</i> (291,200).
Humic Acids	2% Derived from <i>Leonardite</i>
Soluble Sea Kelp Extract	19% <i>Ascophyllum nodosum</i>
Soluble Yucca Extract	4% <i>Yucca schidigera</i>
Fulvic Acid	Plant-derived mineral
<i>Trichoderma</i>	137,000 CFU's per cc to include: <i>Genus Trichoderma</i> (6 species), <i>Gliocladium virens</i> (2 strains), <i>Trichoderma Harzianum</i> (2 strains), <i>Trichoderma Viride</i> (2 strains).
Phosphate Solubilizing, Nitrogen Fixing and Growth Promoting Bacteria.	16,640,000 CFU's per cc to include: <i>Genus Bacillus</i> (32 species), <i>Genus Pseudomonas</i> (2 species), <i>Genus Streptomyces</i> (2 species).
Root Promoting Vitamin	B, B2, B3, B6, B7, B12, C, K, Biotin, Fulvic Acid
Amino Acids	Animal and plant proteins

## Compatibility

**Species:** All plants and shrubs. Rhododendrons, Azaleas, Heather, Blueberries, and Laurels associate with ericoid mycorrhiza but are compatible with ingredients contained in this product.

**Fungicides:** Non-systemic fungicides normally have no effect. Foliar applied fungicides normally have no effect. Systemic fungicides may be applied 2 weeks before or after use of product. Fungicide use according to label instructions do not extinguish mycorrhizae, they only inhibit development for a short period of time.



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*“Stimulates root growth naturally”*

## Health & Safety

Inhalation	If dusty conditions exist wear a dust mask.
Ingestion	Drink large amounts of water, induce vomiting, and seek medical attention.
Eyes	Flush with large amounts of water.
Safety	Product becomes very slippery when wet.

Limited Warranty: All information contained herein is offered in good faith. There are no warranties of merchantability of fitness for a particular purpose which extend beyond the information contained herein. Our liability is limited to replacement of any product which does not meet these specifications.

## Other DIEHARD™ Inoculants

### DIEHARD™ Root Dips

Endo and ectomycorrhizae, stimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts and Horta-Sorb® SM water management gel to protect the roots, slow release all soluble components of the formulation, and boost survival. Also available with just endo or ectomycorrhizae.

### DIEHARD™ Endo Drench

Endo and ectomycorrhizae, stimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts, and *Trichoderma* for use at the propagation level in the nursery/greenhouse to inoculant plants with mycorrhiza and protect roots with *Trichoderma*. Also available with just endo or ectomycorrhizae.

### DIEHARD™ Injectables

Endo and Ectomycorrhizae, stimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts and a slight amount of Horta-Sorb® SM gel to slow release all soluble components of the formulation. Also available with just endo or ectomycorrhizae.

### DIEHARD™ BioRush™

A dry, water soluble root growth stimulant containing humic acid extracts, soluble sea kelp, yucca plant extracts, amino acids and nitrogen fixing, phosphate solubilizing and growth promoting bacteria to "energize" the microbial activity in the ground and promote cell division and lateral bud development as well as delay the aging process of plant tissue.

**Distributed by:**