



FOR TREES AND SHRUBS  
**DIEHARD™ Transplant**



*“The Industry's First Complete Planting Inoculant”*

**Product Features**

- One-Time Application**
- Endomycorrhizal Fungi**
- Ectomycorrhizal Fungi**
- Beneficial Bacteria**
- Humic Acid**
- Soluble Sea Kelp**
- Amino Acids**
- Horta-Sorb Water Management Gel**
- Trichoderma**
- Yucca Plant Extracts**
- Vitamin B Complex**
- Convenient Pre-Measured Bags**

**Product Benefits**

- |                       |                      |
|-----------------------|----------------------|
| <b>IMPROVES</b>       | <b>REDUCES</b>       |
| Survivability         | Mortality            |
| Overall Plant Health  | Fertilizer Cost      |
| New Root Growth       | Pesticides Usage     |
| Flowering             | Heat Stress Damage   |
| Water Absorption      | Irrigation Frequency |
| Nutrient Availability | Losses From Drought  |
| Yields and Production | Conditions           |

**Directions For Use**

Mix product with backfill in the top 8-10 inches of planting hole making sure product is in contact with the root ball. Each 8 oz. bag will treat a 2" caliper tree. (See chart on back of page.)

**Non Plant Food Ingredients**

GUARANTEED ANALYSIS	
<i>Endomycorrhizal Fungi</i>	15 Propagules per gram <i>Glomus mosseae</i> , <i>Glomus intraradices</i> , <i>Glomus fasciculatum</i> , <i>Glomus dussii</i> , <i>Glomus clarum</i> , <i>Glomus deserticola</i> , <i>Glomus microaggregatum</i> .
<i>Ectomycorrhizal Fungi</i>	198,678 Spores per gram to include: <i>Pisolithus tinctorius</i> (170,863), <i>Rhizopogon</i> (27,815).
<i>Bacillus, Pseudomonas &amp; Streptomyces Species</i>	55,470,485 CFU's per gram <b>Genus Bacillus:</b> <i>B. megaterium</i> , <i>B. subtilis</i> , <i>B. amyloliquefaciens</i> , <i>B. azotoformans</i> , <i>B. licheniformis</i> , <i>B. pumilus</i> , <i>B. Firmus</i> , <i>B. coagulans</i> , <i>Geobacillus stearothermophilus</i> , and <i>Paenibacillus polymyxa</i> , <i>Paenibacillus Durum</i> . <b>Genus Pseudomonas:</b> <i>P. putida</i> , <i>P. fluorescence</i> , <i>P. Aureofaceans</i> . <b>Genus Streptomyces:</b> <i>S. lydicus</i> , <i>S. griseus</i> , <i>S. coelicolor</i> .
<i>Trichoderma</i>	27,185 CFU's per gram <i>Genus Trichoderma: Trichoderma hamatum</i> , <i>Trichoderma harzianum</i> , <i>Trichoderma viride</i> , <i>Trichoderma reesei</i> .
Sea Kelp Extract	10% <i>Ascophyllum nodosum</i>
Yucca Plant Extract	4% <i>Yucca schidigera</i>
Humic Acids	24% Derived from <i>Leonardite</i>
Horta-Sorb® MD Water Gel	Minimum 29%
Particle Size	0.8 mm to 2.0 mm
Percent Soluble	less than 0.05%
Absorption Rate	300-400 times in distilled water
Other Ingredients	
Root Promoting Vitamin	B, B2, B3, B5, B6, B7, B9, B12, C, K, Biotin
Amino Acids	<i>L-Alanine, L-Argine, L-Aspartic Acid, L-Cystine, L-Glutamic Acid, L-Glycine, L-Histidine, L-Isoleucine, L-Leucine, L-Lysine, L-Methionine, L-Phenylalanine, L-Proline, L-Threonine, L-Serine, L-Tryptophan, L-Tyrosine, L-Valine</i>
Additional Microbials	Purines, Pyrimidines, Fulvic Acid, Dextrose, Sucrose

**Compatibility**

**Species:** All plants and shrubs.  
**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 mycorrhiza, they only inhibit development for a short period of time.



FOR TREES, SHRUBS, FLOWER BEDS and TURF

# DIEHARD™ Transplant



*“Stimulates root growth naturally”*

## Application Rates

Size of Plant Material	Amount of DIEHARD	Size of Plant Material	Amount of DIEHARD
1 Gallon	1 oz.	2' Height	2 oz.
2 Gallon	2 oz.	3' Height	3 oz.
3 Gallon	2 oz.	4' Height	4 oz.
5 Gallon	3 oz.	5' Height	6 oz.
7 Gallon	4 oz.	6' Height	8 oz.
10 Gallon	4 oz.	8' Height	8 oz.
15 Gallon	6 oz.	10' Height	12 oz.
20 Gallon	8 oz.	24" Spade	4 oz.
30 Gallon	12 oz.	30" Spade	8 oz.
50 Gallon	16 oz.	36" Spade	12 oz.
65 Gallon	20 oz.	44" Spade	16 oz.
100 Gallon	24 oz.	52" Spade	24 oz.
200 Gallon	30 oz.	60" Spade	32 oz.
400 Gallon	32 oz.	80" Spade	48 oz.
1" Caliper	4 oz.	20" Box	8 oz.
2" Caliper	8 oz.	24" Box	12 oz.
3" Caliper	12 oz.	30" Box	16 oz.
4" Caliper	16 oz.	36" Box	24 oz.
5" Caliper	20 oz.	42" Box	36 oz.
6" Caliper	24 oz.	48" Box	40 oz.
7" Caliper	28 oz.	60" Box	48 oz.
8" Caliper	32 oz.	72" Box	60 oz.

## 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.

## Storage & Handling

Store in a cool, dry place. Avoid high temperatures and direct sunlight. Product shelf life is up to 24 months.

**Distributed by:**

