



FOR HYDROMULCH RECLAMATION

DIEHARD™ HydroClaim™



“The Industry's Foremost Biological Reclamation Compound”

DIEHARD™ HydroClaim™ is formulated with live beneficial Endomycorrhizae fungi to inoculate the roots of germinating seeds with natural organisms found in the floor of healthy forests and rangelands for quickest possible establishment in the harshest of environments. Thousands of research studies confirm that mycorrhizal roots establish faster and are more likely to mature those non-mycorrhizal roots. DIEHARD™ HydroClaim™ also contains a bacteria package of 36 species of *Bacillus*, *Pseudomonas*, and *Streptomyces* to "energize" the microbes, enhance microflora and condition the soil.

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 DIEHARD™ HydroClaim™ into hydromulch tanks after seed, mulch, and fertilizer has been used at the rate of 10 pounds per acre. For best results avoid the use of high phosphorus fertilizers. The best method of application is a two-fold approach with 1/2 the mulch applied with the product followed by the addition of the other 1/2 half over the top of the initial application. This technique will insulate the microbes of bacteria and Trichoderma and mycorrhizae from heat and ultraviolet damage. Applications during periods when temperatures are likely to exceed 120 degrees for periods of 4 hours, or more, should be rescheduled.

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 Fungi	87.5 Propagules per cc. <i>Glomus mosseae</i> (17.5), <i>Glomus intraradices</i> (17.5), <i>Glomus fasciculatum</i> (17.5), <i>Glomus dussii</i> (8.75), <i>Glomus clarum</i> (8.75), <i>Glomus deserticola</i> (8.75), <i>Glomus microaggregatum</i> (8.75).
Humic Acids	18% Derived from <i>Leonardite</i>
Soluble Sea Kelp Extract	7% <i>Ascophyllum nodosum</i>
Soluble Yucca Extract	20% <i>Yucca schidigera</i>
Fulvic Acid	Plant-derived mineral
<i>Trichoderma</i>	198,000 CFU's per cubic centimeter 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.	24,000,000 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
Super Absorbent Gel	25% Acrylamide copolymer
Amino Acids	Animal and plant proteins

Contents Provide

- 10 endomycorrhizal infective propropogules per sq. ft.
- 2.8 Million CFU's beneficial bacteria per sq. ft.
- 2/3 lb. Soluble sea kelp per acre.
- 1.8 lbs. Soluble humic acid per acre.
- 1.8 lbs. Minor element package per acre.

Compatibility

Species: All grasses, 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.



DATA SHEET #17-A

FOR NURSERY/GREENHOUSE/FIELD

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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.

Other DIEHARD™ Inoculants

DIEHARD™ Transplant

Contains live spores of endo (VA) and ectomycorrhizae (Pt) combined with humic acids, stimulants, nitrogen fixing, phosphorus solubilizing and growth promoting beneficial bacteria, soluble sea kelp, natural surfactant from yucca plant extracts, and Horta-Sorb® MD. This is a complete transplant preparation to inoculate landscape trees and shrubs with live beneficial mycorrhizae fungi, "energize" the soil, and provide natural nutrients to trees and shrubs when planting.

DIEHARD™ Drenches

Ecto and endomycorrhizae, stimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts, and *Trichoderma* in a dry formulation which is added to water to drench propagation media in the nursery/greenhouse to inoculant plants with mycorrhiza. Available with only endo or edcto.

DIEHARD™ Mix Inoculants

Endo and Ectomycorrhizae, stimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts, and *Trichoderma* in a dry formulation to mix with propagation media in the nursery/greenhouse to inoculant plants with mycorrhiza.

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™ Root Reviver

Endo and ectomycorrhizae, stimulants, beneficial bacteria, plus a light portion of Horta-Sorb® MD to slow release the soluble components of the formulation. For use as a vertimulch application for trees and shrubs in decline and as a soil amendment for plantings, turf, and propagation mixes.

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.

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.

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