DIEHARD™ COMPLETE

"Quality Mycorrhiza, Beneficial Bacteria, Biostimulants"

Product Features

Endomycorrhizal Fungi

Beneficial Bacteria

Humic Acid

Sea Kelp

Amino Acids

Trichoderma

Yucca Plant Extracts

Vitamin B Complex

Lasting Residual

Horta-Sorb® Water Management Gel

Product Benefits

IMPROVES	REDUCES
Survival	Plant Losses
Rooting	Fertilizer Use
Flowering	Need Of Pesticides
Water Absorption	Heat Stress Damage
Nutrient Availability	Irrigation Frequency
Yields and Production	Losses From Drought
Client Satisfaction	Conditions
& Goodwill	

Compatibility

Species: All plants that associate with endomycorrhizal fungi.

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 temporarily.
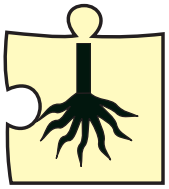
Non Plant Food Ingredient

GUARANTEED ANALYSIS	
Endomycorrhizal Fungi	9 spores per gram *Glomus mosseae, Glomus intraradices, Glomus claroideum, Glomus etunicatum, Glomus clarum, Glomus deserticola,* and *Glomus microaggregatum.*
Ectomycorrhizal Fungi	145,374 spores per gram to include: *Pisolithus tinctorius* (125,022) and *Rhizopogon* (20,352).
Bacillus, Pseudomonas & Streptomyces Species	22,145,374 CFU's per gram ***Genus Bacillus:*** *B. megaterium, B. subtilla, B. amyloliquefaciens, B. azotoformans, B. licheniformis, B. pumulus, B. Firmus, B. coagulans, Geobacillus stearothermophilus,* and *Paenibacillus polymyxa.* ***Genus Pseudomonas:*** *P. putida, P. fluorescence, P. aureofaceans, P. Durum.* ***Genus Streptomyces:*** *S. lydicus, S. griseus, S. coelicolor.*
Trichoderma	7,996 CFU's per gram Genus *Trichoderma: Trichoderma hamatum, Trichoderma harzianum, Trichoderma viride, Trichoderma reesei.*
Humic Acids	40% derived from *Leonardite*
Sea Kelp Extract	19% *Ascophyllum nodosum*
Yucca Plant Extract	1% *Yucca schidigera*
Horta-Sorb® MD Water Gel Particle Size Percent Soluble Absorption Rate	Minimum 5% copolymer 1.0 mm to 2.0 mm. 0.05% 300-400 times in distilled water.
OTHER INGREDIENTS	
Root Promoting Vitamin	B, B2, B3, B5, B6, B7, B9, B12, C, K, Biotin
Amino Acids	*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.*
Additioal Microbials	Purines, Pyrimidines, Fulvic Acid, Dextrose, Sucrose.

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Directions For Use

Flower Beds & Vegetable Plantings: Mix throughly into the first 3" to 4" of soil at the rate of 2 lbs. per 100 sq. ft. of bed.

Garden Seeding: Band beneath seed or transplants and cover with 1/4 to 1/2 inch of soil at the rate of 1 tsp. per plant or one cup per 25 feet of row.

Bulbs: Place one tablespoon beneath each when planting.

Vertimulching: Bore 2 inch diameter holes on a 2.5 to 3 foot grid pattern in the vicinity of roots and mix 4 oz. of product with soil removed and return to fill hole.

Planting Trees & Shrubs: We strongly recommend using DIEHARD™ Transplant or DIEHARD™ Palm Transplant when transplanting because these products contain over 25% of Horta-Sorb® - horticultural grade super absorbent, which is very beneficial when transplanting. However, in the event you wish to use a product that does not contain the gels DIEHARD™ Complete is the perfect match. Mix with backfill in the upper 1/3 of planting hole being sure product is next to the roots.

Plant Size	Container or Ball Size	Rate
Flower/Veg.	4 inch	1 tsp/½ oz.
Shrub	1 gal.	2 tbs/1 oz.
Shrub	3 gal.	8 oz./4 oz.
Shrub	5 gal.	1 cup/8 oz.
2" diameter	20 gal/24" ball	2 cups/1 lbs.
3" diameter	30 gal/32" ball	4 cups/2 lbs.
4" diameter	50 gal/44" ball	8 cups/4 lbs.
6" diameter	200 gal/60" ball	8 lbs.

Turf: Sod, Seed, Sprigs: Mix 3 lbs. per 1,000 square feet and rake into the first 1 inch of soil.

Potting/Propagation Mix: Generally, 3 lbs. per cubic yard or 1/2 cup per cubic foot.

Configuration	lb./cu.yd.	No/yd3	Propagules
Gen. Purpose Mix	3	0	118/gal.
Larger than 7 gal.	1		8250/lb.
7 gallon	1	35	236
5 gallon	1.25	52	198
3 gallon	1.5	72	172
2 gallon	1.75	125	116
1 gallon	3	260	95
6 inch	4	450	73
4 inch	6	960	52
50 cell flat	8	170	8
72 cell flat	10	189	6
128 cell flat	14	220	4

Storage & Handling

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

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.

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