roots®

CONTAINS myconate®

PHC® Plant Saver®

- Used in planting or maintaining a broad range of plants
- Contains beneficial mycorrhizal fungi and rhizosphere bacteria

4-7-4 Mycorrhizal Fungi and Biological Fertilizer for Planting Landscapes

ROOTS® PHC® Plant Saver® 4-7-4 is used in planting or maintaining a broad range of plants, including: trees, shrubs, annuals and perennials. It contains a blend of ecto and endomycorrhizal fungal spores, beneficial rhizosphere bacteria, 4-7-4 fertilizer, organic amendments, and a comprehensive selection of micronutrients designed to restore soil fertility and address the mineral requirements common to many plants. Also included is Myconate® (formononetin), a patented stimulant of VAM fungi.
*Covered by US Patents 5,002,603; 5,085, 682; 5,691,275; 5,981,775.

DIRECTIONS FOR USE:

Trees, Shrubs, Perennials, Vines & Landscape Plantings: Thoroughly mix product into backfill at a rate of about 8 ounces of ROOTS® PHC® Plant Saver® 4-7-4 per caliper inch or for each foot diameter of root ball.
1. Mix ROOTS® PHC® Plant Saver® 4-7-4 evenly into the backfill soil next to the root ball.
2. Pack the treated backfill firmly around the root ball.
3. Mulch and water to soil saturation.

Established Trees and Shrubs: Apply as a vertimulch using an earth auger with a width of about 2.5 inches. Mix 4 ounces of product with soil in each hole drilled to a depth of about 8 to 10 inches. Drill numerous holes in a grid pattern with 2.5 foot spacing to cover the entire area beneath the canopy. Avoid damaging large roots.

Small Plants and Bulbs: Add 1 tablespoon (1/2 ounce) per plant, and mix thoroughly with soil in planting hole.
See directions inside for detailed application instructions.

HEALTH AND SAFETY: In case of skin allergic reaction(s), treat symptoms and contact physician. Avoid breathing dust. Wash hands after handling.

Caution to individuals with nut allergies. This product contains peanut skins.

KEEP OUT OF REACH OF CHILDREN

STORAGE: Store in a dry location between 50° and 90°F.

WARRANTY

NOTE To the extent consistent with applicable law, buyer assumes all responsibility for safety and performance if this product is not used according to the directions.

APPLICATION RATES	
SIZE	Roots® PHC® Plant Saver
1 to 2 gallon plant	4 ounces (1/2 cup)
3 to 5 gallon plant	8 ounces (1 cup)
Per caliper inch	8 ounces (1 cup)

☐ **27-24402 (22 Lbs/10 kg)**

☐ **27-24405 (42 Lbs/19 kg)**

Not labeled for use on food crop sites.

Expiration Date:

For technical assistance and information about our products visit www.LebanonTurf.com

LebanonTurf

GUARANTEED ANALYSIS	
Total Nitrogen (N)	**4.0%**
0.50% Urea Nitrogen	
0.50% Other Water Soluble Nitrogen*	
3.00% Water Insoluble Nitrogen*	
Available Phosphate (P_2O_5)	**7.0%**
Soluble Potash (K_2O)	**4.0%**
Calcium (Ca)	3.0%
Magnesium (Mg)	3.0%
0.08% Water Soluble Magnesium (Mg)	
Sulfur (S)	1.0%
1.0% Combined Sulfur (S)	
Boron (B)	0.02%
0.02% Water Soluble Boron (B)	
Iron (Fe)	3.0%
0.03% Water Soluble Iron (Fe)	
Manganese (Mn)	0.7%
0.10% Water Soluble Manganese (Mn)	
Zinc (Zn)	0.2%
0.01% Water Soluble Zinc (Zn)	

Derived from: Ureaformaldehyde, Feather meal, meat and bone meal, Methylene Urea, Peanut skin meal, Rock phosphate, Calcium phosphate, Sulfate of Potash, Iron sucrate, Magnesium sucrate, Manganese Sucrate, Zinc oxysulfate, Magnesium sulfate, Sodium borate decahydrate.
*3.5% Slowly available Nitrogen from ureaformaldehyde, feather meal, meat and bone meal, methylene urea, and peanut skin meal.

ALSO CONTAINS NON PLANT FOOD INGREDIENTS GUARANTEED ANALYSIS SOIL/PLANT AMENDING INGREDIENTS	
Active Ingredients	
Ectomycorrhizal Fungi	33,000 spores/g
30,000 spores/g *Pisolithus tinctorius*	
3,000 spores/g *Scleroderma citrinum*	
VA Endomycorrhizal (VAM) Fungi	2.24 spores/g
0.56 spores/g *Entrophospora columbiana*	
0.56 spores/g *Glomus etunicatum*	
0.56 spores/g *Glomus clarum*	
0.56 spores/g *Glomus intraradices*	
Rhizosphere Bacteria	400,000 cfu/g
90,000 cfu/g *Bacillus licheniformis*	
90,000 cfu/g *Bacillus megaterium*	
20,000 cfu/g *Bacillus polymyxa*	
90,000 cfu/g *Bacillus pumilus*	
90,000 cfu/g *Bacillus subtilis*	
20,000 cfu/g *Paenibacillus azotofixans*	
Humic acids (derived from Leonardite)	11.000%
Formononetin	0.002%
INERT INGREDIENTS	88.998%
73.298% Fertilizer Ingredients	
7.200% Leonardite extract (other than humic acids)	
5.600% Greensand	
2.800% Mineral Oil	
0.090% Kaolin Clay	
0.010% Talc	

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Information regarding the contents and levels of metals in this product is available on the Internet at: http://www.regulatory-info-lebsea.com

Manufactured by: Lebanon Seaboard Corporation . 1600 E. Cumberland St. Lebanon, PA 17042 . Made in the USA . www.LebanonTurf.com

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