

PHC BioPak® Plus

PHC BioPak® Plus is a dry, water dispersible micronutrient treatment that includes beneficial rhizosphere bacteria and 3-0-20 NPK fertilizer. Micronutrient treatments are excellent for plants undergoing or recovering from stress, and for plants expressing symptoms of mineral deficiencies such as chlorosis (pale leaf color) and necrosis (localized tissue death). Many acid-loving plants experience deficiencies, in particular iron or zinc, in soils that are alkaline or neutral making these minerals insoluble. This product contains various mineral macro-and micronutrients including iron, sulfur, magnesium, manganese, boron, and zinc that remain soluble in acid, neutral and alkaline soils. *PHC BioPak® Plus*:

- Provides nitrogen and 7 essential minerals needed by plants
- Reverses mineral deficiencies that cause chlorosis
- Increases microbial activities to improve soil fertility

DIRECTIONS FOR USE

PHC BioPak® Plus has a near-neutral pH of 6 and can be tank mixed with diluted pesticides and fertilizers. Add product to the tank last. Mixed solution should be used within 12 hours.

APPLICATION RATES

ORNAMENTAL PLANTS/POTTED PLANTS

Application	PHC BioPak Plus	Water Volume	Method of Application	Coverage
New plantings	1 pound	25 gallons	Drench or spray to soil saturation	1000 square feet
Maintenance	1 pound	25 gallons	Drench or spray to soil saturation	2000 square feet
Pre-Digging/Transplanting	3 pounds	100 gallons	Drench 2 days prior to digging and immediately after installation	5 gallons per caliper inch or to soil saturation
Flower Beds	1 pound	25 to 50 gallons	Drench or spray to soil saturation	10,000 square feet

TREE/SHRUB CARE RATES

Application	PHC BioPak Plus	Water Volume	Method of Application	Coverage
Initial Application	1 to 5 pounds (3 pound average)	50 to 100 gallons	Soil inject, drench or spray	1250 square feet
Maintenance	2 to 3 pounds	50 to 100 gallons	Soil inject, drench or spray	2000 square feet
Iron Deficiency	5 pounds	50 to 100 gallons	Soil inject, drench or spray	2000 square feet

TURF CARE RATES

Application	PHC BioPak Plus	Water Volume	Frequency	Coverage
Lawns	5 pounds	50 to 100 gallons	Monthly or as needed	1 acre
New Seeding/Overseeding	5 pounds	50 to 100 gallons	Every 2 to 4 weeks as needed	1 acre
Hydroseeding	5 pounds	Tank mix at seeding	At time of seeding	1 acre
Sod Installation	5 pounds	50 to 100 gallons	2 to 3 days prior to harvest or after installation	1 acre

IN-LINE SYSTEMS

Fertigation	PHC BioPak Plus	Mix Tank	Dilution Setting	Procedure
Dosatron	5 pounds	5 gallons	1:100	After application, rinse water through system

FAST GREEN UP AND STRESS RECOVERY

GUARANTEED ANALYSIS 3-0-20

PLANT FOOD INGREDIENTS	% by Weight
Total Nitrogen (N)	3%
3% Water Soluble Nitrogen	
Soluble Potash (as K ₂ O)	20%
Magnesium (Mg).....	1.5%
1.5% Soluble Magnesium (Mg).....	
Sulfur (S)	4%
4% Combined Sulfur (S).....	
Iron (Fe)	7%
7% Chelated Iron (Fe).....	
Manganese (Mn).....	0.2%
0.2% Chelated Manganese (Mn).....	
Boron (B)	0.02%
0.02% water soluble Boron (B).....	
Zinc (Zn)	0.2%
0.2% Chelated Zinc (Zn).....	

Derived from Urea, Ferrous Citrate, Potassium Sulfate, Manganese EDTA, Magnesium Hydroxide, Seakelp Extract Sodium Tetraborate and Zinc EDTA.

Rhizosphere <i>Bacillus spp.</i>	5 Billion cfu/Lb
<i>Bacillus licheniformis</i>	833 Million cfu/Lb
<i>Bacillus megaterium</i>	833 Million cfu/Lb
<i>Bacillus polymyxa</i>	833 Million cfu/Lb
<i>Bacillus subtilis</i>	833 Million cfu/Lb
<i>Bacillus thuringiensis</i>	833 Million cfu/Lb
<i>Paenibacillus azotofixans</i>	833 Million cfu/Lb

NON PLANT FOOD INGREDIENTS	% by Weight
Humic acids	3.5%
Cold water sea kelp extract	4%
Soluble yucca plant extract.....	2%
Maltodextrin.....	6%

STORAGE/SHELF LIFE

This product is stable in cool, dry storage conditions. See expiration date on package.

HEALTH AND SAFETY INFORMATION

- In case of allergic reaction(s), treat symptoms and contact physician.
- Avoid breathing dust or spray mist.
- Wash hands after handling.
- In case of ingestion, seek medical attention.
- Keep out of reach of children.

PACKAGING

1-Lb jar, 1-Lb bag, 5 per box, 5-Lb box

TECHNICAL ASSISTANCE

For technical assistance, call 1-800-421-9051
 Plant Health Care, Inc. • 440 William Pitt Way
 Pittsburgh, PA 15238 • Tel: (800) 421-9051
 Fax: (412) 826-5445 • www.planthealthcare.com

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