

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	2 pounds	50 to 100 gallons	Soil inject, drench or spray	1000 square feet
Maintenance	1 pound	50 to 100 gallons	Soil inject, drench or spray	1000 square feet
Iron Deficiency	3 pounds	50 to 100 gallons	Soil inject, drench or spray	1000 square feet

TURF CARE RATES

Application	PHC BioPak Plus	Water Volume	Frequency	Coverage
Lawns	1 pound	50 to 100 gallons	Monthly or as needed	10,000 square feet
New Seeding/Overseeding	1 pound	50 to 100 gallons	Every 2 to 4 weeks as needed	10,000 square feet
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

NUTRIENTS	% by Weight
Total Nitrogen (N).....	3%
3% Urea Nitrogen	
Soluble Potash(as K ₂ O).....	20%
Magnesium (Mg).....	1.5%
1.5% Water Soluble Magnesium (Mg)	
Sulfur (S).....	4%
4% Combined Sulfur (S)	
Boron (B).....	0.02%
0.02% Water Soluble Boron (B)	
Iron (Fe).....	7%
7% Water Soluble Iron (Fe)	
Manganese (Mn).....	0.2%
0.2% Chelated Manganese (Mn)	
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.

MICROBIAL CONTENT

- 833 Million cfu/Lb *Bacillus licheniformis*
- 833 Million cfu/Lb *Bacillus megaterium*
- 833 Million cfu/Lb *Bacillus polymyxa*
- 833 Million cfu/Lb *Bacillus subtilis*
- 833 Million cfu/Lb *Bacillus thuringiensis*
- 833 Million cfu/Lb *Paenibacillus azotofixans*

NON PLANT FOOD INGREDIENTS

NON PLANT FOOD INGREDIENTS	% by Weight
Humic acids.....	3.6%
Cold water sea kelp extract.....	3%
Soluble yucca plant extract.....	2.6%
Maltodextrin.....	8.7%

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 Bag
- 5 x 1-Lb Bag
- 8-Lb Bag
- 50-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

© 2006

7/06



LIMITED WARRANTY Plant Health Care, Inc. offers for sale the product PHC BioPak® Plus. THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE which extend beyond the description of the product in this specification sheet or other product literature, and liability of Plant Health Care, Inc. is limited to replacement of any product which does not meet these specifications. Suggestions for use and information on results obtained with its use are assumed by the manufacturer to be reliable. Since conditions of use are outside the control of Plant Health Care, Inc. the buyer is responsible for all results, including injury and damage stemming from the use of this product alone or in combination with other materials.