

# PHC<sup>®</sup> for Trees 27-9-9

PHC for Trees 27-9-9 is a highly dispersible product formulation that provides both chemical and biological fertility. Its chemically-based elements address trees' immediate nutritional needs, while its beneficial microbes will help to sustain fertility over the long term. Key elements are finely ground so that the product will not clog spray equipment. A new surfactant technology (RZ3) helps the product to readily penetrate soil. **PHC for Trees 27-9-9:**

- Is a high nitrogen fertilizer ideal for spring applications or other situations where high nitrogen levels are preferred
- 50% of its nitrogen is in a slow-release form, following ANSI A300 recommendations
- Provides both macro- and micronutrients to replenish seasonal (short-term) fertility requirements and promote growth, health and vigor
- Provides select microbes that fix atmospheric nitrogen, solubilize phosphorus and release bound mineral elements in soluble form through decomposition of organic materials for long-term fertility benefits
- Can be applied by soil injection or by drench
- Is compatible with PHC Injectable for Trees and other mycorrhizal fungal inoculant products

## DIRECTIONS FOR USE

**SOIL INJECTION:** Mix recommended amount of PHC for Trees with water, and inject soil to a depth of 8 to 10 inches. Start injections immediately past the root flare, being careful to avoid damage to large woody roots. Where possible, injections should cover the entire area beneath the canopy and just beyond the drip line.

Using the recommended rate below will apply 1.6-Lbs of nitrogen and 0.5-Lbs of both phosphorus (P<sub>2</sub>O<sub>5</sub>) and potassium (K<sub>2</sub>O) per 1000 square feet.

### Standard Injection Rate:

- Mix 8-Lbs (1 bag) PHC for Trees per 100 gallons of water
- **SOIL INJECT:**
- 100 gallons per 1250 sq ft (2 quarts per injection on 2.5 foot centers) *or*
- 5 gallons per inch DBH (diameter at breast height)

### Compacted or Nonporous Soils:

- Mix 16-Lbs (2 bags) PHC for Trees per 100 gallons of water
- **SOIL INJECT:**
- 100 gallons per 2500 sq ft (1 quart per injection on 2.5 foot centers) *or*
- 2.5 gallons per inch DBH (diameter at breast height)

**SOIL DRENCH:** Mix 8-Lbs (1 bag) PHC for Trees with 100 gallons of water and drench the entire area beneath the canopy. This rate covers 1250 sq ft. For best results, follow with water application to rinse the product into the soil.

Not recommended for foliar application.

Mixed solution should be used within a 12 hour period.

## STORAGE/SHELF LIFE

This product is stable in cool, dry storage conditions. Refer to expiration date on package. Do not expose to direct sunlight for extended periods. PHC for Trees will remain an excellent fertilizer, but the number of beneficial microbes may be reduced after the expiration date shown on the package.

## SLOW RELEASE, HIGH NITROGEN BIOFERTILIZER

### GUARANTEED ANALYSIS 27-9-9

NUTRIENT	% by Weight
Total Nitrogen (N) .....	27%
1% Nitrate Nitrogen	
12.5% Urea Nitrogen	
2.5% Slowly available water soluble Nitrogen*	
11% Water insoluble Nitrogen	
Available Phosphase (P <sub>2</sub> O <sub>5</sub> ) .....	9%
Soluble Potash (K <sub>2</sub> O) .....	9%
Boron (B) .....	0.02%
0.02% Soluble Boron	
Copper (Cu) .....	0.05%
0.05% Chelated Copper	
Iron (Fe) .....	0.10%
0.10% Chelated Iron	
Manganese (Mn) .....	0.05%
0.05% Chelated Manganese	
Molybdenum (Mo) .....	0.0009%
0.0009% Water Soluble Molybdenum	
Zinc (Zn) .....	0.05%
0.05% Chelated Zinc	

\* Slowly available Nitrogen from Ureaformaldehyde

Derived from: Ureaformaldehyde, Urea, Potassium Phosphate, Potassium Nitrate, Boric Acid, Iron EDTA, Manganese EDTA, Zinc EDTA, Copper EDTA and Ammonium Molybdate.

Potential Acidity: 920-Lb Calcium carbonate equivalent per ton

NON PLANT FOOD INGREDIENTS	% by Weight
Humic acids derived from Leonardite .....	1.8%
Soluble seaweed extract .....	2.2%
Natural sugars (dextrose) .....	0.8%
Yeast extract .....	0.3%
RZ-3 surfactant (alkylated glucopyranoside) .....	2.8%

MICROBIAL CONTENT	2.8 Billion/Lb
466 Million cfu/Lb <i>Bacillus licheniformis</i>	
466 Million cfu/Lb <i>Bacillus megaterium</i>	
466 Million cfu/Lb <i>Bacillus polymyxa</i>	
466 Million cfu/Lb <i>Bacillus subtilis</i>	
466 Million cfu/Lb <i>Bacillus thuringiensis</i>	
466 Million cfu/Lb <i>Paenibacillus azotofixans</i>	

INERT INGREDIENTS	92.1%
Fertilizer .....	91.1%
Leonardite extract (other than humic acids) .....	1%

\*RZ-3 is a proprietary surfactant, U.S. Patent # 6,460,290

## PACKAGING

8-Lb bags and 40-Lb bags

## HEALTH AND SAFETY INFORMATION

- In case of allergic reaction(s), treat symptoms and contact physician.
- In case of ingestion, seek medical attention.
- Keep out of reach of children.

## TECHNICAL ASSISTANCE

For technical assistance, call 1-800-421-9051

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[www.planthealthcare.com](http://www.planthealthcare.com)

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