



P.O. Box 34645 • Omaha, NE 68134 • Toll-Free: 800-698-4641 • Phone: 402-339-4459 • Fax: 402-339-5011 • ArborSystems.com

## ArborSystems™ Direct-Inject™ Tree Injection System The No-Drilling Injection Solution

For systemic fungicide control of *Phytophthora* spp. and Beech Decline Diseases in a wide variety of trees in urban environmental, residential areas, and interior landscapes (such as those in domestic landscape/garden areas, public display plantings, recreation areas, highway and other transportation rights-of-way, scenic corridors, storage areas, forest areas, and campgrounds).

To be used only with the ArborSystems™ Direct-Inject™ Tree Injection System.

### ACTIVE INGREDIENT:

\*Mono- and di-potassium salts of Phosphorous Acid . . . . . 45.8%  
(CAS Nos. 13977-65-6 and 13492-26-7)

OTHER INGREDIENTS . . . . . 54.2%  
Total: 100.0%

\*Equivalent to 3.35 lbs Phosphorous Acid/gallon.

Container Size	Net Contents	AI/Container
120 ml container	4 fl oz (120 ml)	2.4 oz (69 g)
1000 ml pack	1 qt 2 fl oz (1000 ml)	20 oz (575 g)

EPA Reg. No. 69117-5 EPA Est. 69117-NE-1

Keep Out of Reach of Children

### CAUTION

See below for additional precautionary statements and complete Directions for Use.

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing vapors. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Thoroughly wash with soap and water after handling. Remove and wash contaminated clothing before reuse.

### FIRST AID

**Have the product container, label, or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.**

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its label.

### GENERAL INFORMATION

#### ARBORSYSTEMS DIRECT-INJECT TREE INJECTION SYSTEMS

The ArborSystems Direct-Inject Tree Injection Systems are easy to use. Most trees are treated in as little as five minutes or less, allowing applicators to treat trees quickly. There is no need to wait for absorption (translocation). Chemical is injected into the cambial area of the tree (the active vascular system). Because the chemical is placed right where the tree can use it, effectiveness of the chemical is increased. Use in sunny or overcast conditions rainy or dry, at any time of day. As no drilling or implants are required, you can treat trees year after year, with no threat of long-term or permanent damage to the tree. These systems minimize wounding and promote long-term tree vigor.

### INDICATIONS

Use ArborSystems Whippet Fungicide for effective control of *Phytophthora* spp. and Pythium diseases associated with Stem and Canker Blight (Sudden Oak Death, *Phytophthora ramorum*) and Beech Decline.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear protective eyewear and rubber or neoprene gloves when handling ArborSystems Direct-Inject chemicals.

### TREE SPECIES\*

Use on trees such as, but not limited to: Almond, Apple, Avocado, Beech, Cedar, Chestnut, Conifers (including Christmas trees and forests), Crabapple, Dogwood, Elm, Fir, Hawthorne, Juniper, Linden, Macadamia Nut, Monterey Pine, Oaks (Coastal, Live, Shreve, Black Canyon), Oriental Pear, Ornamental Pear, Ornamentals, Pineapple, Pyracantha, Stone Fruit, Sweet Birch, Sweet Gum, Tan Oaks, White Pine, White Cedar and Willow.

\*Use in California limited to Oaks (Coastal, Live, Shreve, Black Canyon).



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## TIMING OF INJECTIONS

Inject trees anytime during the growing season. Treatments are more effective when made early in the growing season. Do not inject trees in winter months.

## DOSAGE

0.068 fl oz (2 ml) per 4" of trunk circumference measured within 12" of the ground. Increase dosage to 0.136 fl oz (4 ml) per 4" of trunk circumference for trees with diameters over 12 feet.

## NUMBER OF INJECTION SITES

Set the ArborSystems Direct-Inject unit to release a 0.017 or 0.034 fl oz (0.5 or 1 ml) dose with each full stroke of the handles (unit is preset at 0.034 fl oz [1 ml]). Number of injection sites is determined by the bark's thickness and flexibility. Thicker barked trees will accept 0.068 to 0.136 fl oz (2 to 4 ml) of chemical in a single injection site (depending on bark flexibility). On thinner bark trees, or if bark is less flexible, reduce dosage per injection site and increase the number of injection sites.

## HOW TO USE ARBORSYSTEMS DIRECT-INJECT CHEMICALS WITH ARBORSYSTEMS DIRECT-INJECT TREE INJECTION UNITS

1. Use only ArborSystems' Direct-Inject chemicals with your unit as they have been formulated specifically for the Direct-Inject systems. Use of other chemicals will invalidate warranty.
2. Attach the container to the Direct-Inject unit and prepare the unit to make injections.
3. Set the delivery volume on the unit.
4. Follow the label directions to determine the amount of chemical and number of injection sites.
5. Determine where to make injections in the bark. Generally, the injection tip is inserted into the fissure (valley) of the tree bark. Inject thin-barked trees in the thicker part of the tree bark. Thick-barked trees require a longer injection tip.
6. Make injections working around the circumference of the tree. Make Wedgle injections within 12" of the ground. Portle® injection height varies depending on type of tree and location.
7. With a smooth motion, firmly squeeze the injection unit handles. This releases a pre-measured chemical dose into the tree.
8. Continue making injections moving around the tree until the entire tree trunk has been treated.
9. During use, periodically clean the Direct-Inject unit to prevent clogging.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Storage:** Store in original container out of reach of children, preferably in a locked storage area. Do not store near any heat source or strong oxidants.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal: Bottles:** Triple rinse (or equivalent) then offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by authorities, by burning (if burned, stay out of smoke). **Chemical Packs:** Completely empty pack into application equipment, then dispose of empty pack in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning; if burned, stay out of smoke.

## NOTICE OF WARRANTY

ArborSystems warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in accordance with the directions on the labeling. ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

Whippet® Fungicide, Portle® Tip and Wedgle® Tip are registered trademarks of ArborSystems™.

ArborSystems™, Direct-Inject™, and WedgeChek™ are trademarks of ArborSystems™.

Direct Inject™ unit is protected by U.S. Patent #5,901,498

Wedgle® Tip is protected by U.S. Patent #5,239,773

WedgeChek™ is protected by U.S. Patent #5,797,215

Portle® Tip is protected by U.S. Patent #7,178,286