

69117-5

12/4/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Arborsystems, Inc.
c/o Kimberlee Young
RegWest Company, LLC
8203 West 20th St., Suite A
Greeley, CO 80634-4696

DEC 04 2013

Subject: Label Amendment to revise the directions for use, add information for Sycamore Anthracnose, add palm plants, add emergency contact information to the first aid statement, revise storage and disposal statement, and make other minor labeling changes.
WHIPPET Fungicide
EPA Reg. No.: 69117-5
Your submission dated June 3, 2013
Decision Number: 479453

Dear Ms. Young:

The amendment referred to above submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(c)(5), is acceptable provided that you:

- 1) Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2) Submit two (2) copies of your final printed labeling before you release the product for shipment. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Should you have any questions, you may contact Mr. Colin Walsh directly at (703) 308-0298 or via email at walsh.colin@epa.gov.

Sincerely,

Linda A. Hollis, Chief

CONCURRENCES
Biochemical Pesticides Branch

SYMBOL	7511P						
SURNAME	Walsh						
DATE	11/19/13						

2/11

WHIPPET® Fungicide

An ArborSystems™ Direct-Inject™ Chemical
•Easy •No drilling •Saves Time and Money

For systemic fungicide control of Sudden Oak Death, Sycamore Anthracnose, Stem and Canker Blights, Pine Pitch Canker, Beech Decline and *Phytophthora* spp. diseases in a wide variety of trees and palm plants in urban environmental, residential areas and interior plantscapes.

Active Ingredient:	
*Mono- and di-potassium salts of Phosphorous Acid	45.8%
Other Ingredients	54.2%
Total	100.0%

*Equivalent to 3.35 lbs. Phosphorous Acid/gallon.
Contains 2.4 fl. oz. (69 grams) active ingredient per 4 fl. oz. (120 ml) pack.
[Contains 20 fl. oz. (575 grams) active ingredient per 1 qt. 2 fl. oz. (1000 ml) pack.]

Keep Out of Reach of Children

CAUTION

See {specific location} for First Aid and additional Precautionary Statements and complete Directions for Use.

ACCEPTED

DEC 04 2013

Net Contents: 4 fl. oz. (120 ml)
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 69117-5 • EPA Est. 69117-NE-1

ArborSystems™
P.O. Box 34645
Omaha, NE 68134

{Affixed Booklet – Front Panel}

WHIPPET® Fungicide
An ArborSystems™ Direct-Inject™ Chemical
•Easy •No drilling •Saves Time and Money

For systemic fungicide control of Sudden Oak Death, Sycamore Anthracnose, Stem and Canker Blights, Pine Pitch Canker, Beech Decline and *Phytophthora* spp. diseases in a wide variety of trees and palm plants in urban environmental, residential areas and interior plantscapes.

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3/11

Net Contents: 4 fl. oz. (120 ml)
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

Keep Out of Reach of Children
CAUTION

See inside for First Aid and additional Precautionary Statements and complete Directions for Use.

{Affixed Booklet}

WHIPPET® Fungicide
An ArborSystems™ Direct-Inject™ Chemical
• Easy • No Drilling • Saves Time and Money

For systemic fungicide control of Sudden Oak Death, Sycamore Anthracnose, Stem and Canker Blights, Pine Pitch Canker, Beech Decline and *Phytophthora* spp. diseases in a wide variety of trees and palm plants in urban environmental, residential areas and interior plantscapes (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.

ArborSystems™
The No-Drill Injection Solution
[800-698-4641 • Fax: 402-339-5011]
P.O. Box 34645 • Omaha, NE 68134

EPA Reg. No. 69117-5 • EPA Est. 69117-NE-1
Net Contents: 4 fl. oz. (120 ml)
[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

First Aid

If Swallowed:	<ul style="list-style-type: none"> • 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 to an unconscious person.
If Inhaled:	<ul style="list-style-type: none"> • 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.
If on Skin or Clothing:	<ul style="list-style-type: none"> • 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 in Eyes:	<ul style="list-style-type: none"> • 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: www.npic.orst.edu).</p>	

{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

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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. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

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

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 labeling.

Product Information

ArborSystems™ Direct-Inject™ Tree Injection System

The ArborSystems Direct-Inject Tree Injection System is 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 (the active vascular system) of the tree. 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. This system minimizes wounding and promotes long-term tree vigor.

Indications

Use Whippet Fungicide for effective control of *Phytophthora* spp. diseases (including Sudden Oak Death, *Phytophthora ramorum*), Beech Decline, Pine Pitch Canker (*Fusarium subglutinans*), Stem and Canker Blight and Sycamore Anthracnose (*Gnomonia platar*).

Tree Species*	Timing of Injections	Dosage and Number of Injection Sites
Use on palm plants and 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, Pyracantha, Stone Fruit, Sweet Birch, Sweet Gum, Sycamore, Tan Oaks, White Pine, White Cedar and Willow	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.	2 ml (0.068 fl oz) per 4" of trunk circumference measured within 12" of the ground. Increase dosage to 4 ml (0.136 fl oz) per 4" of trunk circumference for trees with diameters over 12 feet.

*Use in California limited to oaks (Coastal, Live, Shreve, Black Canyon)

Note: Because some treatments require large amounts of chemical per site, there may be occasions where it is difficult to keep all of the chemical dose in the injection site. If this is experienced, several options are possible:

1. Use the Portle or WedglePlus Injection Tips which have a check valve in the hub of each tip that keeps chemical in the tree until it is absorbed.
2. Reduce dosage volume by half and double the number of injection sites.
3. Inject half the dose at each site, mark the tree, continue treating other trees, then return to the marked tree and inject remaining dosage in each site.

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How to Use ArborSystems Direct-Inject Chemicals with ArborSystems Direct-Inject Tree Injection System

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Direct-Inject system.
2. Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Choose which style and length of ArborSystems Injection Tip is most appropriate for the type of tree you are treating.
4. The injection unit is preset to deliver a 1 ml (0.034 fl oz) dose of chemical with each full stroke of the handles. If you need to inject a 0.5 ml (0.017 fl oz) dose of chemical, move the dose adjustment ring to the 0.5 ml (0.017 fl oz) dose adjustment groove.
5. Make injections working around the base (or flare) of the tree. Make all injections within 12" of the ground unless otherwise noted.
6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into the tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Direct-Inject unit to prevent clogging.

Storage and Disposal

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

Pesticide Storage: Store in original container in a cool, dry place. 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 Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}

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. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

ArborSystems™

The No-Drill Injection Solution

[800-698-4641 • Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Whippet® Fungicide, Portle® and Wedgle® 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

6/11

[] Denotes alternate/optional language
{ } Denotes language that does not appear on the market labeling

{Box Label}

WHIPPET® Fungicide
An ArborSystems™ Direct-Inject™ Chemical

For systemic fungicide control of Sudden Oak Death, Sycamore Anthracnose, Stem and Canker Blights, Pine Pitch Canker, Beech Decline and *Phytophthora* spp. diseases in a wide variety of trees and palm plants in urban environmental, residential areas and interior landscapes.

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

Active Ingredient:

*Mono- and di-potassium salts of Phosphorous Acid	45.8%
Other Ingredients	54.2%
Total	100.0%

*Equivalent to 3.35 lbs. Phosphorous Acid/gallon.

Contains 2.4 oz. (69 grams) active ingredient per 4 fl. oz. (120 ml) pack.

[Contains 20 fl. oz. (575 grams) active ingredient per 1 qt. 2 fl. oz. (1000 ml) pack.]

Keep Out of Reach of Children

CAUTION

See booklet for First Aid and additional Precautionary Statements and complete Directions for Use.

DIRECTIONS FOR USE

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

The ArborSystems Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals.

Storage and Disposal

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

Pesticide Storage: Store in original container in a cool, dry place. 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 Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}

Net Contents: 4 fl. oz. (120 ml)

[Net Contents: 1 qt. 2 fl. oz. (1000 ml)]

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

ArborSystems™

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{Pack Label}

WHIPPET® Fungicide
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Active Ingredient:

*Mono- and di-potassium salts of Phosphorous Acid 45.8%

Other Ingredients 54.2%

Total 100.0%

*Equivalent to 3.35 lbs. Phosphorous Acid/gallon.

Contains 2.4 oz. (69 grams) active ingredient per 4 fl. oz. (120 ml) pack.

[Contains 20 fl. oz. (575 grams) active ingredient per 1 qt. 2 fl. oz. (1000 ml) pack.]

Keep Out of Reach of Children

CAUTION

See booklet [box label] for First Aid and additional Precautionary Statements and complete Directions for Use.

DIRECTIONS FOR USE

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

The ArborSystems Direct-Inject unit is designed to be used only with ArborSystems pre-packed chemicals.

Storage and Disposal

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

Pesticide Storage: Store in original container in a cool, dry place. 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 Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

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Net Contents: 4 fl. oz. (120 ml)

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8/11

{Box label}

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An ArborSystems™ Direct-Inject™ Chemical
• Easy • No Drilling • Saves Time and Money

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

Active Ingredient:

*Mono- and di-potassium salts of Phosphorous Acid 45.8%

Other Ingredients 54.2%

Total 100.0%

*Equivalent to 3.35 lbs. Phosphorous Acid/gallon.

[Contains 2.4 oz. (69 grams) active ingredient per 4 fl. oz. (120 ml) pack.]

Contains 20 oz. (575 grams) active ingredient per 1 qt. 2 fl. oz. (1000 ml) pack

Keep Out of Reach of Children

CAUTION

See below for First Aid and additional Precautionary Statements.

ArborSystems™

The No-Drill Injection Solution

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P.O. Box 34645 • Omaha, NE 68134

Net Contents: 4 fl. oz. (120 ml)

Net Contents: 1 qt. 2 fl. oz. (1000 ml)

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

First Aid

If Swallowed:	<ul style="list-style-type: none"> • 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 to an unconscious person.
If Inhaled:	<ul style="list-style-type: none"> • 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.
If Swallowed:	<ul style="list-style-type: none"> • 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 to an unconscious person.

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First Aid (continued)

If in Eyes:	<ul style="list-style-type: none"> • 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1.800.858.7378, seven days a week, 6:30 am-4:30 pm Pacific Time (NPIC website: www.npic.orst.edu).</p>	

{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

PRECAUTIONARY STATEMENTS

Hazards to Humans and 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. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

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

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 labeling.

Product Information

ArborSystems™ Direct-Inject™ Tree Injection System

The ArborSystems Direct-Inject Tree Injection System is 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 (the active vascular system) of the tree. 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. This system minimizes wounding and promotes long-term tree vigor.

Indications

Use Whippet Fungicide for effective control of *Phytophthora* spp. diseases (including Sudden Oak Death, *Phytophthora ramorum*), Beech Decline, Pine Pitch Canker (*Fusarium subglutinans*), Stem and Canker Blight and Sycamore Anthracnose (*Gnomonia platani*).

Tree Species*	Timing of Injections	Dosage and Number of Injection Sites
Use on palm plants and 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, Pyracantha, Stone Fruit, Sweet Birch, Sweet Gum, Sycamore, Tan Oaks, White Pine, White Cedar and Willow	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.	2 ml (0.068 fl oz) per 4" of trunk circumference measured within 12" of the ground. Increase dosage to 4 ml (0.136 fl oz) per 4" of trunk circumference for trees with diameters over 12 feet.

10/11

*Use in California limited to oaks (Coastal, Live, Shreve, Black Canyon)

Note: Because some treatments require large amounts of chemical per site, there may be occasions where it is difficult to keep all of the chemical dose in the injection site. If this is experienced, several options are possible:

1. Use the Portle or WedglePlus Injection Tips which have a check valve in the hub of each tip that keeps chemical in the tree until it is absorbed.
2. Reduce dosage volume by half and double the number of injection sites.
3. Inject half the dose at each site, mark the tree, continue treating other trees, then return to the marked tree and inject remaining dosage in each site.

**How to Use ArborSystems Direct-Inject Chemicals
with ArborSystems Direct-Inject Tree Injection System**

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Direct-Inject system.
2. Measure the circumference of the tree within 12" of the ground. Follow the label directions and application dosages in this booklet to determine the number of injection sites and the amount of chemical to be injected at each site.
3. Choose which style and length of ArborSystems Injection Tip is most appropriate for the type of tree you are treating.
4. The injection unit is preset to deliver a 1 ml (0.034 fl oz) dose of chemical with each full stroke of the handles. If you need to inject a 0.5 ml (0.017 fl oz) dose of chemical, move the dose adjustment ring to the 0.5 ml (0.017 fl oz) dose adjustment groove.
5. Make injections working around the base (or flare) of the tree. Make all injections within 12" of the ground unless otherwise noted.
6. With a smooth motion, firmly squeeze the injection unit handles to deliver chemical into the tree. Apply equal pressure on both handles—unequal pressure may bend or break the tip.
7. Continue making injections moving around the tree until the entire tree trunk has been treated.
8. When removing tips from the tree, use a straight rearward motion. Avoid rocking motions as that may damage tips or the injection unit.
9. Clean tips after each use by submerging in alcohol or diluted bleach.
10. At the end of the day, water flush the Direct-Inject unit to prevent clogging.

Storage and Disposal

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

Pesticide Storage: Store in original container in a cool, dry place. 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 Handling:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling, if available, or dispose of empty pack in a sanitary landfill or by incineration.

{Per PR Notice 2007-4 Batch Code/Lot Number will appear either on the label or the container.}

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. To the extent consistent with applicable law, ArborSystems does not make or authorize any agent or representative to make any other warranty, guarantee or representation, express or implied, concerning this product.

ArborSystems™

The No-Drill Injection Solution

[800-698-4641 • Fax: 402-339-5011]

P.O. Box 34645 • Omaha, NE 68134

Whippet® Fungicide, Portle® and Wedgle® 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

[] Denotes alternate/optional language
{ } Denotes language that does not appear on the market labeling

{Additional Selling/Marketing Copy for use in promotional pieces: on the website; brochures; and in other promotional materials, displays, etc.}

ArborSystems™ Direct-Inject™ Tree Injection System

The ArborSystems Direct-Inject Tree Injection System is effective. Chemicals are injected directly into a tree. Because the chemical is placed right where the tree can use it, most problems can be seen in as little as three to five days. Also, because no chemical is lost in non-active wood, the Direct-Inject System allows you to use less chemical; this saves money and reduces chemical waste. The Direct-Inject System injects chemicals into a tree with minimal wounding. With no holes to drill, no air or pathogens are allowed to enter the tree, potential decay never starts and long-term wounding is prevented. The tree's ability to move water and nutrients, and to store food, is not compromised.

Pre-mixed chemicals are supplied in self-sealing containers. After injections have been made, you have only one small container of which to dispose. Concerns you may have had when spraying will be eliminated. And with a closed system there is no mixing.

With no drilling required the ArborSystems Direct-Inject System:

- Minimizes wounding to keep out fungi, bacteria, and insects.
- Prevents air from getting into the tree. When air is allowed into a tree's vascular system, it cuts off the flow of water and nutrients.
- Allows multiple or annual treatments without damaging the tree.
- Requires no drills, power supply or other bulky equipment.

With this system and chemicals many of the most devastating fungal diseases in trees can be managed.

The ArborSystems Direct-Inject System is designed to preserve and protect the indigenous and urban forest. Treat almost any tree in five minutes or less. Control is achieved with less chemical because chemical is placed precisely where the tree can best use it. No chemical is lost in dead wood.

ArborSystems Direct-Inject chemicals are integral parts of the Direct-Inject Tree Injection System. Use only ArborSystems' Direct-Inject™ chemicals with the Direct-Inject Units. Using unauthorized chemicals with the ArborSystems Direct-Inject System constitutes a violation of Federal law.

Chemical Selection

Your distributor can advise you on the best chemical selections for trees in your area. See our website for additional information.

WHIPPET™ Fungicide

Chemical: Mono- and di-potassium salts of Phosphorous Acid

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