



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

## 1. PRODUCT IDENTIFICATION

**Product Name:** Pointer<sup>®</sup> Insecticide  
**EPA Reg. No.:** 69117-1  
**EPA Est:** 69117-NE-1  
**EPA Signal Word:** Warning  
**Chemical Class:** Systemic Insecticide

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Percent	Exposure Limits
Imidacloprid	138261-41-3	5.00%	Not established
Alcohol (Trade Secret)	Trade Secret	> 94.00%	Not established
Acrylic Acid	79-10-7	< 0.15%	2 ppm (AGCIH TLV/TWA)

## 3. HAZARDS IDENTIFICATION

**Threshold Limit Value:** Not determined

**Primary Route of Exposure:** None expected

**Effects of Overexposure:** With the exception of the eye and skin irritation information, this hazard evaluation is based on data from similar formulations.

**Eye Contact:** Causes substantial but temporary eye injury.

**Skin Contact:** Slightly irritating to skin.

**Dermal Toxicity:** Harmful if absorbed through the skin.

**Respiration/Inhalation:** Harmful if inhaled.

**Ingestion:** Harmful if swallowed. May produce systemic and reproductive toxicity with extreme overexposure.

**Carcinogenicity:** Not determined or expected

## 4. FIRST AID MEASURES

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

**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.

**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 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.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** 165°F

**Flammable Limits:** @ 1.5 (LEL Lower); @ 9.7 (UEL Upper)

**Fire Extinguishing Media:** "Alcohol" foam, carbon dioxide, dry chemical, water spray for dilution to non-flammable mixture. Special Fire-Fighting Procedures: Fire fighters should use eye protection and self-contained breathing apparatus, and remove all unprotected persons from the area.

**Unusual Fire and Explosion Hazards:** None known

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Released or Spilled:** Pick up spill with sand, earth or other non-combustible absorbent material. Do not contaminate water when disposing of equipment washwaters. Contaminated absorbent and wash water should be disposed of according to local, state and Federal regulations. This product is highly toxic to bees exposed to direct treatment or residues. This product is highly toxic to fish and aquatic invertebrates.

## 7. HANDLING AND STORAGE

**Special Precautions to be Taken When Handling and Storing:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wash thoroughly with soap and water after handling. Do not apply to food-bearing plants. Read entire label before using. Use strictly in accordance with label precautionary statements and directions. Do not contaminate water, food, or feed by storage or disposal.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use protective eyewear and gloves when handling ArborSystems<sup>™</sup> Direct-Inject<sup>™</sup> chemicals. Use chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Hazy amber liquid

**Odor:** Mild alcohol

**Specific Gravity:** 1.073 g/ml (8.94 lbs/gallon)

**Solubility in H<sub>2</sub>O:** Virtually complete

**Boiling Point:** Not determined

**Melting Point:** Not applicable

**Vapor Pressure:** Not applicable

**Vapor Density:** Not applicable

**Percent Volatile:** Not determined

**Evaporation Rate:** Not determined



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## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions

**Conditions to Avoid:** Sources of ignition or combustion

**Incompatibility (Materials to Avoid):** None known

**Hazardous Decomposition Products:** Resulting from a fire: toxic gasses including carbon monoxide and carbon dioxide and smoke can be generated.

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** None known

## 11. TOXICOLOGICAL INFORMATION

Not determined

## 12. ECOLOGICAL INFORMATION

**Environmental Precautions:** Do not apply this product to blooming plants if bees are visiting the treatment area. Do not apply to water or allow runoff to contaminate aquatic sites. Highly toxic to aquatic invertebrates. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

## 13. DISPOSAL CONSIDERATIONS

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

**Pesticide Storage:** Store above 65°F in a cool, dry place and in such a manner as to prevent cross contamination with fertilizers, food, feed, and other pesticides. Store in original container out of reach of children, preferably in a locked storage area.

**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:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling if available; otherwise dispose of empty pack in a sanitary landfill.

## 14. TRANSPORT INFORMATION

This product is shipped in inner packaging not over 4 L (1.0 Gallon) each and is therefore shipped under the "Limited quantities of Division 6.1 materials" exception, 49 CFR 173.153(b).

## 15. REGULATORY INFORMATION

This product contains 5.0% Imidacloprid (CAS Number 139261-41-3). The remaining composition (95.0%) is other ingredients.

**TSCA Inventory Status:** This product is not known to contain a listed substance.

**CERCLA 40 CFR 302.4:** This product is not known to contain a listed substance.

**SARA Title III 40 CFR 372 (for SARA 313):** This product is not known to contain a listed substance.

**SARA Title III TQPs and RQs 40 CFR 355 (used for SARA 302, 311 and 312):** This product is not known to contain a listed substance.

**California Proposition 65:** This product is not known to contain a listed substance.

**Massachusetts 105 CMR 670.000 Right-to-Know Hazardous Substance List:** Trade secret alcohol could require reporting as a hazardous substance.

**Pennsylvania Right-to-Know Hazardous Substance List:** The trade secret alcohol could require reporting as a hazardous substance.

## 16. OTHER INFORMATION

Revision: 12/09

Supersedes: 05/97, 01/96, 12/97, 04/04, 05/06, 06/07, 05/08 and 11/08 versions

*The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. It is the responsibility of the user to comply with all laws and procedures applicable to the safe handling, storage, and use of this product and to determine the suitability of the product for its intended use. IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.*

Pointer® is a registered trademark of ArborSystems.



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## An ArborSystems™ Direct-Inject™ Chemical

For systemic insect control in a wide variety of ornamental trees in utility rights-of-way, urban environments, 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, campgrounds and other uncultivated, nonagricultural areas).

Intended for use by professional arborists/applicators, foresters, grounds-maintenance professionals and landscapers. To be used only with the ArborSystems Direct-Inject Tree Injection Systems.

### ACTIVE INGREDIENT:

Imidacloprid (CAS No. 138261-41-3) .....	5%
<b>OTHER INGREDIENTS</b> .....	<b>95%</b>
<b>Total:</b>	<b>100%</b>

Container Size	Net Contents	AI/Container
120 ml pack	4 fl oz (120 ml)	0.2 oz (6 g)
1000 ml pack	1 qt 2 fl oz (1000 ml)	1.8 oz (50 g)

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

**Keep Out of Reach of Children****WARNING**

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

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**WARNING:** Harmful if swallowed, inhaled or absorbed through skin. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear safety glasses. Thoroughly wash with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### FIRST AID

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

**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.

**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 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.

### ENVIRONMENTAL HAZARDS

This product is highly toxic to fish and aquatic invertebrates. 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. This product is highly toxic to bees exposed to direct treatment or residues on blooming plants or weeds. Do not apply this product to blooming plants or weeds if bees are visiting the treatment area.

## DIRECTIONS FOR USE

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

### GENERAL INFORMATION

Do not inject food bearing plants.

### 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 with no drilling required. Chemical is injected into the cambial area of the tree (the active vascular system). There is no need to wait for absorption (translocation). 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. Direct-Inject Systems minimize wounding and promote long-term tree vigor.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Use protective eyewear and gloves when handling ArborSystems Direct-Inject chemicals. Use chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.

### INDICATIONS

As a preventative, apply in the early spring prior to insect activity in the tree. As a remedial (on trees already showing symptoms of infestation), apply as needed spring through fall, provided the bark is pliable enough to accept the chemical injections.



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## PEST CONTROLLED

- Adelgids (including Hemlock Woolly Adelgids)
- Aphids
- Armored Scales (suppression)
- Asiatic Garden Beetles
- Bark Beetles (including Asian Longhorned Beetle, Citrus Longhorned Beetle and IPS)
- Black Vine Weevil Larvae
- Chafers
- Elm Leaf Beetles
- Eucalyptus Longhorned Borer
- Flatheaded Borers (including Alder-Birch Borer, Bronze Birch Borer, and Emerald Ash Borer)
- Japanese Beetles
- Japanese Beetle Larvae
- Lacebugs
- Leafhoppers
- Leafminers
- Mealybugs
- Oriental Beetles
- Pine Bark Beetles
- Pine Tip Moth Larvae
- Psyllids
- Royal Palm Bugs
- Sawfly Larvae
- Soft Scale Insects
- Thrips (suppression)
- Whiteflies

## DOSAGE

1 ml per 4" to 6" of trunk circumference measured within 12" of the ground.

Dosage may be increased to a maximum of 2 ml per injection site for trees with diameters over 12" or with challenging insect infestations (such as Asian Longhorn Beetle, Citrus Borers, Emerald Ash Borer or Hemlock Woolly Adelgids).

**Note:** Younger or small trees with thinner bark may be less able to retain the full dose per injection site; in such cases, to obtain the appropriate per-tree dosage, reduce the dosage per injection site to 0.5 to 1 ml per site and increase the number of injection sites accordingly.

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

1. Use only ArborSystems Direct-Inject chemicals with your unit as they have been formulated specifically for the Direct-Inject system. Use of other chemicals will invalidate warranty.
2. Attach the chemical pack 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<sup>®</sup> Tip injections within 12" of the ground. Portle<sup>®</sup> Tip injection height varies depending on type of tree and location.
7. When treating hardwoods, use Wedgle<sup>®</sup> Tips and make injections within 12" of the ground. Initially, use the shorter Wedgle Tip; if no resistance is met after this initial insertion past the bark

(i.e., if the tip does not reach the outer xylem ring), withdraw the Tip. Replace the short Tip with the longer Tip to ensure the Tip fully penetrates the bark to reach the outer xylem ring. Use Portle<sup>®</sup> Tips when treating conifers and Palm Tips when treating palms.

8. When the Tip is correctly inserted, firmly squeeze the injection unit handles using a smooth, slow motion. This releases a pre-measured chemical dose into the tree.
9. Continue making injections moving around the tree until the entire tree trunk has been treated.
10. 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.

**Pesticide Storage:** Store above 65°F in original container in a cool, dry place.

**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:** Non-refillable container; do not reuse or refill this container. Completely empty pack into application equipment, then offer for recycling if available; otherwise dispose of empty pack in a sanitary landfill.

## 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.

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ArborSystems<sup>™</sup>, Direct-Inject<sup>™</sup>, and WedgeChek<sup>™</sup> are trademarks of ArborSystems.

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

Wedgle<sup>®</sup> Tip is protected by U.S. Patent #5,239,773

WedgeChek<sup>™</sup> is protected by U.S. Patent #5,797,215

Portle<sup>®</sup> Tip is protected by U.S. Patent #7,178,286