



## SYSTEMIC FUNGICIDE

Systemic fungicide for the suppression of various plant diseases including root rot in avocado and citrus, bud rot and nut fall in coconut, black spot, scab, fire blight in apple, anthracnose in mango, sycamore, and dogwood, *Phytophthora* (causative of Sudden Oak Death) in oak, and for effective control of *Phytophthora* and *Pythium* diseases associated with stem and Canker Blight, Beech Decline, and general tree declines in landscapes. USE IN CALIFORNIA LIMITED TO *PHYTOPHTHORA* (SUDDEN OAK DEATH) IN OAK.

### ACTIVE INGREDIENT:

Mono- and di-potassium salts of Phosphorous Acid.....45.8%  
OTHER INGREDIENTS.....54.2%  
TOTAL.....100.0%

EPA Reg No. 74578-3 • EPA Est. No. 74578-MA-001

Net Contents: 1.057 Quarts (1 Liter)

Contains: 5.17lbs/gallon of the active ingredients, mono- and di-potassium salts of Phosphorous acid. Equivalent to 3.35 lbs Phosphorous acid/gallon.

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

Manufactured by: ARBORJET, Inc., 99 Blueberry Hill Road, Woburn, MA 01801 (781) 721-0795

## FIRST AID

### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

### 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 a doctor for treatment advice.

### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or a doctor for treatment advice.

### IF INHALED:

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

Have the product container of label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Poison Control Hotline at 1-800-222-1222, 24 hours a day, 7 days a week.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear protective eyewear; long pants and long-sleeved shirt, waterproof gloves, shoes plus socks.

Follow manufacturer's instructions for maintaining/cleaning personal protective equipment (PPE). If no such instructions for washables, use hot water and detergent. Keep and wash PPE separately from other laundry.

When handlers use closed systems, aircraft or enclosed cabs in a manner that meets the requirements listed in the worker protection standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before drinking, eating, chewing gum, using tobacco, or using the toilet.
- Remove PPE clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### 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. Read entire label before using this product.

Do not apply this product in any way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide registration.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers Protection Standard, CFR 40 part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that are permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soils or water, is: coveralls, waterproof gloves, shoes plus socks, and protective eyewear.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170.) The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

## GENERAL APPLICATION INSTRUCTIONS

This product is for use with the ARBORJET TREE INJECTION SYSTEMS or those systems that meet the label and dosage requirements. Follow manufacturer's directions for use.

### Ornamental, Forest, Conifers, and Crop Trees (NOT FOR USE IN CALIFORNIA)

**CALCULATING APPLICATION RATE AND MIXING INSTRUCTIONS (for micro-injection; for other methods see supplemental information)**

- 1) To determine the application rate, refer to Table 1. Identify plant size by determining tree diameter in inches at breast height (DBH") (measured at approximately 54" above the soil line). (If measuring tree circumference divide by 3 to obtain the DBH")
- 2) Multiply the DBH" by the corresponding amount in the rate column to determine the application rate appropriate for plant size.
- 3) 1 part PHOSPHO-jet is diluted with 2 parts water. Determine the amount of water to be added by multiplying the ml PHOSPHO-jet (obtained in step #2 above) by 2.
- 4) Fill the tank with the water before adding PHOSPHO-jet.
- 5) Add PHOSPHO-jet slowly to the tank, close and gently agitate to mix.

**Example:** To treat a 10" DBH oak for root rot, see Table 1. Add 50 ml of PHOSPHO-jet (10" DBH x 5ml) into 100 ml (2 x 50 ml) water for a total injection volume of 150 ml. Inject 30 ml of the PHOSPHO-jet/water solution every 6" of trunk circumference as directed in Supplemental Label Arborjet Injection Procedures.

TABLE 1: PHOSPHO-JET USE AND APPLICATION RATES (NOT FOR USE IN CALIFORNIA)

Plant	Disease	Plant Size (DBH")	Rate (ml/DBH")
Ornamental & Forest Trees	Root Rot ( <i>Phytophthora</i> spp. including <i>P. ramorum</i> , <i>P. cinnamomi</i> , <i>P. palmivora</i> , <i>P. cactorum</i> ), Anthracnose, Apple scab ( <i>Venturia inaequalis</i> )	<12"	5
		12-23"	7
		24-35"	9
Conifers, grown in commercial nurseries, plantations, and forest (including Christmas tree farms)	Root Rot ( <i>Phytophthora</i> spp. including <i>P. ramorum</i> , <i>P. cinnamomi</i> )	36"+	11
Crop Trees	Disease	Plant Size (DBH")	Rate (ml/DBH")
Avocados	Root Rot ( <i>Phytophthora cinnamomi</i> , <i>P. citricola</i> )	6-8"	4
		9-11"	5
Citrus (mature trees)	Root, Foot and Collar Rot ( <i>Phytophthora</i> spp. including <i>P. nicotinae</i> , <i>P. citrophthora</i> )	12-14"	6
Coconuts	Bud - Nut Fall ( <i>Phytophthora palmivora</i> )	15-23"	7
		24-32"	8
Apples, Pears, Loquats, Quince	Fire Blight ( <i>Erwinia amylovora</i> ); Apple Scab ( <i>Venturia inaequalis</i> ); Black Spot ( <i>Diplocarpon rosae</i> )	33"+	9
Tree nuts such as Almonds, Walnuts	Root and Collar Rot ( <i>Phytophthora</i> spp.)		

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## SUDDEN OAK DEATH\*

Use PHOSPHO-jet for effective control of *Phytophthora* (Sudden Oak Death, *Phytophthora ramorum*), in landscapes, plantation trees, golf courses, forests and parks. Apply PHOSPHO-jet to Oaks (Black, Canyon, Coast, Live, Shreve) and Tan Oak.

Make applications before disease development and in conjunction with good cultural management practices. Do not exceed indicated application rates or apply more frequently than stated on label or tree injury may occur. Do not apply to trees that are heat or moisture stressed.

### PHOSPHO-JET APPLICATION FOR OAKS IN CALIFORNIA

Landscape, Golf Course, Plantation, Forest, and Park Applications	Disease	Rate
Oak ( <i>Quercus</i> spp.) including Black, Canyon, Coast, Live, Shreve; Tan Oak	Sudden oak death <i>Phytophthora ramorum</i>	10 ml per 6 inch circumference (3.5 ml PHOSPHO-jet and 6.5 ml water)

\*Use in California limited to Oaks (Black, Canyon, Coast, Live, Shreve) and Tan Oak using micro-injection system only.

## CALCULATING APPLICATION RATES & MIXING INSTRUCTIONS

The dilution rate is 1 part PHOSPHO-jet to 2 parts water. One injection of 10 ml of the PHOSPHO-jet / water solution is used per 6 inches of trunk circumference measured at 4 feet above the soil line.

### In order to determine the application rate per tree:

- 1) Measure the trunk circumference 4 feet above the soil line.
- 2) Divide the number of inches of circumference by 6 to determine the number of injection sites.
- 3) Each 10 ml solution injection will have 3.5 ml PHOSPHO-jet and 6.5 ml water.
- 4) Multiply the number of injection sites by 3.5 to determine the amount of PHOSPHO-jet needed.
- 5) Multiply the number of injection sites by 6.5 to determine the amount of water needed.
- 6) Fill the tank with the water before adding PHOSPHO-jet.
- 7) Add PHOSPHO-jet slowly to the tank to reach the total amount of solution desired. (Total volume should equal number of injection sites x 10 ml.) Close and gently agitate to mix.

**Example:** A trunk has a circumference of 48". Dividing by 6 = 8 injection sites. Multiplying 8 by 3.5 = 28 ml PHOSPHO-jet. Multiplying 8 by 6.5 = 52 ml water. Therefore, prepare a treatment solution with 28 ml PHOSPHO-jet added to 52 ml of water for a total volume of 80 ml (8 injection sites of 10 ml each).

**For multiple or asymmetrical trunks,** measure the tree canopy at the drip line. The application rate is one 10ml injection per yard of canopy diameter.

**Example:** If the canopy diameter is 18 feet (6 yards), there will be 6 injection sites. Prepare a treatment solution with 21 ml PHOSPHO-jet (6 x 3.5 ml) added to 39 ml of water (6 x 6.5 ml) for a total volume of 60 ml (6 injection sites of 10 ml each).

Note: 324 ml (11 fl. oz) PHOSPHO-jet + 624 ml (21 fl. oz) water makes one quart of solution.

## WHEN TO TREAT/TIMING OF STEM INJECTION APPLICATIONS

### Tree Health and Growing Conditions:

Best results are obtained when treatments are performed prior to infection. Treat trees when foliar symptoms (e.g., spot, defoliation, dieback) affect less than 10% of the canopy. Anticipate early season foliar infections, by treating prior to bud break (for example, apple scab).

*Phytophthora* root rot occurs most frequently in poorly drained and compacted soils. Susceptible species are at risk of infection following heavy precipitation or irrigation. Trees growing in low lying areas are also at risk of disease. Treat as early as possible in the infection cycle for best tree response.

For optimal uptake, apply when soil is moist, soil temperatures are above 45°F, ambient temperatures are between 40° to 90°F, and during the 24 hour period when transpiration is greatest, typically before 2:00 PM. Applications to drought or heat stressed trees may result in injury to tree tissue, poor treatment and subsequent control. Watering the trees prior to injection may enhance the uptake of PHOSPHO-jet.

## COMPATIBILITY

PHOSPHO-jet is compatible with most products used in agriculture. However, individual crop sensitivity to these mixtures may vary. Mixtures of PHOSPHO-jet with copper products are not always compatible or cause phytotoxicity to some plants. If these combinations or others have not been used previously, do not tank mix without first testing the compatibility of the tank mix. Do not apply tank mixture without first assessing its safety to the crop (phytotoxicity). Tank mix PHOSPHO-jet with fertilizers only if crop safety has been established and the PHOSPHO-jet use rates are followed.

Due to PHOSPHO-jet's acidic nature, do not use acidifying-type compatibility agents. If adjuvants are used, test them before use to confirm compatibility with PHOSPHO-jet.

Use a jar test to confirm compatibility with PHOSPHO-jet. In a clean jar using the same water source that is normally used to fill spray tank, add the appropriate quantity of water and mix thoroughly. Let stand for 3 minutes. If mixture remains in solution or is remixed readily, the tank mixture is compatible.

Spray the solution that results from the above compatibility test onto a few plants until foliage is visibly wet and inspect for visual effects of phytotoxicity (leaf burn) 3-7 days later.

## RESTRICTIONS

- Do not inject trees more than once annually unless otherwise indicated
- Not recommended for newly planted (non-established) trees.
- DO NOT inject drought stressed trees.
- Do not treat trees that are damaged by herbicides.
- Do not inject trees within two weeks of any other spray or soil chemical treatment.

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE:

Keep this product in containers stored upright and secured with the original closure. Do not store this product near any heat source. Do not store near any strong oxidants. If transfer to another container becomes necessary, ensure that the container is clearly labeled, the container is a type suitable for the product, and is clean and free of other materials. Keep from freezing.

### PESTICIDE DISPOSAL:

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL:

Nonrefillable container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

#### For containers small enough to shake ( ≤ 5 gallons)

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsates into application equipment or a mix tank or store rinsates for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### For containers too large to shake ( >5 gallons or 50 lbs.)

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Offer for recycling, if available.

## NOTICE OF WARRANTY

ARBORJET, Inc makes no warranty of fitness of this product for any other purpose, beyond its uses under normal conditions in keeping with the statements made on this label.