



May 21, 2012

New York State Department  
of Environmental Conservation  
Division of Materials Management  
Pesticide Product Registration**ORGANOCIDE Plant Doctor™****SYSTEMIC FUNGICIDE FOR RESIDENTIAL USE ONLY**

SYSTEMIC FUNGICIDE FOR THE EFFECTIVE CONTROL OF VARIOUS PLANT DISEASES INCLUDING BLACK SPOT OR SCAB IN APPLE, ROOT ROT IN AVOCADO, BUD ROT AND NUT FALL IN COCONUT, ROOT ROT IN CITRUS AND CUCURBITS, DOWNY MILDEW IN CUCURBITS, GRAPE, LETTUCE, AND ONION, ANTHRACNOSE IN MANGO, ROOT AND HEART ROT IN PINEAPPLE, LATE BLIGHT IN POTATO, ROOT AND COLLAR ROT IN STONEFRUIT, LEATHER ROT AND ROOT ROT DISEASES IN STRAWBERRY, LATE BLIGHT IN TOMATO, DOWNY MILDEW, PHYTOPHTHORA & PYTHIUM IN ORNAMENTALS, INTERIORSCAPES, BEDDING PLANTS, ROOT ROT AND FUSARIUM IN CONIFERS, PYTHIUM IN TURF AND ROOT ROT AND PYTHIUM DISEASES ASSOCIATED WITH STEM AND CANKER BLIGHT (SUDDEN OAK DEATH) AND GENERAL BEECH DECLINE.

**For Use On:** ORNAMENTALS, TURF, FRUIT & MORE, AS LISTED.

**Controls:** DAMPING-OFF AND ROOT ROT IN FRUITING VEGETABLES, ORNAMENTALS, AND BEDDING PLANTS, AS LISTED.

**Controls:** ROOT ROT, DOWNY MILDEW, FIRE BLIGHT, BLACK SPOT & MORE, AS LISTED.

**Systemic Action:** FUNGICIDE MOVES THROUGHOUT THE ENTIRE PLANT TO TREAT DISEASES, AS LISTED.

**ACTIVE INGREDIENTS:**

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

OTHER INGREDIENTS: .....54.2%

TOTAL ..... 100.0%

\*Contains 5.17 lbs/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**

Consult pages 2 and 3 of this booklet for First Aid and Precautionary Statements

**EPA Reg. No. 71962-1-70179**

**EPA Est. No. 070179-FL-001**

**Net Contents:**

**One Quart (946ml)**

Distributed By:

**Organic Laboratories, Inc.**

2963 SE Dominica Terrace

Stuart, FL 34997



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## 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 poison control center or 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 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, preferably mouth-to-mouth, if possible
- Call a poison control center or doctor for further treatment advice

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

**Hotline Number: National Poison Control, 1-800-222-1222**

# PRECAUTIONARY STATEMENTS

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## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

## ENVIRONMENTAL HAZARDS

For Terrestrial Use: To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

## 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. For use only in home gardens, on home lawns, and on home ornamentals and related home plants.

When using ORGANOCIDE PLANT DOCTOR™ with Pentra-Bark™ adhere to all applicable label directions. Only use Pentra-Bark™ with basal bark or tree injection applications.

## GENERAL APPLICATION INSTRUCTIONS

Apply ORGANOCIDE PLANT DOCTOR™ by various application methods, including foliar spray, soil drench, soil incorporation, basal bark application and bare root dip. For foliar sprays, apply ORGANOCIDE PLANT DOCTOR™ with sufficient water volumes for adequate coverage of foliage, according to plant type and growth stage. To ensure good coverage, spray to wetness, but avoid run-off.

When applying ORGANOCIDE PLANT DOCTOR™ to plant species for the first time, spray a limited number of plants first and wait for 3-7 days. Then check for leaf burn (phytotoxicity).

## MIXING INSTRUCTIONS

1. Fill the spray tank with  $\frac{1}{4}$  -  $\frac{1}{2}$  of the volume of water required before adding ORGANOCIDE PLANT DOCTOR™
2. Add ORGANOCIDE PLANT DOCTOR™ slowly to the tank and agitate
3. Fill tank with balance of water to the desired volume
4. Agitate during application

## Conversion Table

1/8 fl. oz.	=	3/4 teaspoon (tsp.)
1/4 fl. oz.	=	1 1/2 tsp
1/3 fl. oz.	=	2 tsp
1/2 fl. oz.	=	3 tsp
2/3 fl. oz.	=	4 tsp
3/4 fl. oz.	=	4 1/2 tsp.
1 fl. oz.	=	2 tablespoons (Tbs) = 6 tsp.

## CITRUS, FRUIT, NUT AND VEGETABLE APPLICATIONS

### APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of black spot, root and collar rot and fire blight in apples, crab apples, loquats, pears, and quinces.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Apple black spot and scab ( <i>Venturia inaequalis</i> )	Foliar Spray	3 to 4 tsp. per gallon of water	First application at open cluster. Last application at fifth cover or fruit at 2" to 2½" diameter. Total of 10 applications at 10 to 12 day intervals. When conditions are conducive to a black spot outbreak, apply ORGANOCIDE PLANT DOCTOR™ immediately. Note: After 4 or 5 consecutive applications some yellowing of extension growth may be observed. If yellowing occurs use another fungicide until yellowing of leaves disappears.
Apple black spot and scab ( <i>Venturia inaequalis</i> )	Basal bark spray apply early spring at bud swell or at silver tip stage of growth	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Pentra- Bark™ Bark Penetrating Surfactant	Spray a combination of ORGANOCIDE PLANT DOCTOR™ and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present (treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease

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**APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE\* (Continued)**

			pressure will shorten the length of control). Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices.
Root and collar rot (Root Rot cactorum) Fire Blight (Erwinia amylovora)	Foliar Spray	1/2 to 1 tsp. per gallon of water	One to two month intervals between treatments. Under high disease pressure use higher application rate and shorter spray interval. Ensure thorough coverage.
Root and collar rot (Root Rot cactorum) Fire Blight (Erwinia amylovora)	Basal bark spray apply spring and fall for best results	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	Spray a combination of ORGANOCIDE PLANT DOCTOR™ and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)

\*Not for use in California except as basal bark spray on apples and crab apples.

**ASPARAGUS\***

Use ORGANOCIDE PLANT DOCTOR™ for effective control of crown rot & asparagus spear slime disease in asparagus crops.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Crown rot & Asparagus spear slime (Phytophthora spp)	Foliar Spray	1/3 fl. oz. per gallon of water	Apply to spear that has 2 to 3 inches of new growth. Do not apply to ferns that are starting to die down (senesce). Established plantings, start applications when conditions are favorable to disease (cool wet conditions). Ensure thorough coverage.

\*Not for use in California.

## AVOCADOS

Use ORGANOCIDE PLANT DOCTOR™ for effective control of root rot, trunk cankers and downy mildew disease in Avocado.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Root rot (Phytophthora cinnamomi)	Tree Injection	Skeletal trees 1st year: ¼ fl. oz. undiluted product per yard of canopy diameter. Other situations: 1/8 fl. oz. diluted with ½ fl. oz. of water per yard of canopy diameter	Inject trees at spring flush maturity. Repeat treatment in February or March. Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murf gun, or hydraulic tree injection. Do not prune back trees before injection process as burning of new growth may occur. Do not inject trees in winter months. Do not cut back the canopy of injected trees. Do not add any material, other than water, to ORGANOCIDE PLANT DOCTOR™ by trunk injection. Do not inject more liquid in a lesser number of syringes than directed.
Root rot (Phytophthora cinnamomi)	Foliar Spray	1/3 fl. oz. per gallon of water	Spray to run off at 2-2½ gallons of spray solution per adult tree. Start applications in spring, up to 4 applications a year at two-month intervals. Ensure thorough coverage.
Canker (Phytophthora citricola)	Trunk Spray	8 to 16 fl. oz. with one gallon of water with 1.2 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant	Apply to trunk lesions using sufficient spray volume to completely wet the trunk and lesions. If lesions absent, apply to trunk from soil level to two feet up trunk. If lesions present use higher rate.
Downy Mildew	Foliar Spray	¾ teaspoon per gallon of water	Spray to run-off, as required for disease control.

## BERRIES\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of root rot in bush and cane berries such as, but not limited to, blueberries, blackberries, loganberries, and raspberries (red, black, hybrids/cultivars).

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Root rot (Root Rot spp.)	Foliar Spray	2-6 tsp. per gallon of water. Ensure foliage is completely wet.	New plantings: start application when new growth is 2 to 3 inches long. Established plantings start applications when cool wet conditions occur which favor disease. West of Rocky Mountains: Autumn applications, apply when conditions favor disease, repeat in 4 weeks. Spring applications, first application after bud break and repeat in 4 weeks. East of Rocky Mountains: First application spring post bud break (2 to 3 inches new growth) and repeat at 50 to 60 day intervals. Do not exceed 4 applications per season. For blueberries - First application in spring at pink bud and then on a regular schedule of application at two to three intervals.

\*Not for use in California.

## BRASSICAS

Use ORGANOCIDE PLANT DOCTOR™ for effective control of downy mildew in brassicas such as, but not limited to, broccoli, Brussels sprouts, cabbage, cauliflower, cavalo broccolo, collards, Chinese cabbage, Chinese mustard cabbage, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Downy mildew (Peronospora parasitica)	Foliar Spray	2 tsp. to 2 fl. oz. per gallon of water  <b>California:</b> 1/3 to 1/2 fl. oz. per gallon of water	1 to 3 week intervals between applications when conditions favor disease development (cool, moist weather). Use higher rates and shorter intervals when disease pressure increases.

## CITRUS - Mature trees

Use ORGANOCIDE PLANT DOCTOR™ for effective control of root rot and collar rot diseases in citrus.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Brown rot and foot rot Phytophthora spp	Foliar Spray	1 teaspoon per gallon of water.	<b>When conditions favor disease.</b> Spray trees to run off ensure even coverage. Do not apply at high temperatures (above 95°F) particularly if humidity is low or to moisture-stressed trees.
Root rot and collar rot (Phytophthora spp nicotianae and Phytophthora citrophthora)	Trunk Spray	8 to 16 fl. oz. per gallon of water	Spray trunk lesions with enough spray volume to ensure lesions are completely wet. When disease levels are high use higher rate

## COCONUTS

Use ORGANOCIDE PLANT DOCTOR™ for effective control of bud rot and nut fall in coconuts.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Bud rot – Nut fall (Phytophthora palmivora)	Injection	1/3 to 1 fl. oz. per tree	Dilute ORGANOCIDE PLANT DOCTOR™ with water to give final injection volume of 1 fl. oz. to 2 fl. oz. f water and ORGANOCIDE PLANT DOCTOR™. Inject into the trunk or root system.

## CUCURBITS

Use ORGANOCIDE PLANT DOCTOR™ for effective control of sudden wilt, gummy stem blight, and downy mildew diseases in cucurbits such as, but not limited to, cucumber, Chinese waxgourd, citron melon, gherkin rock melon, honeydew melon, pumpkin, zucchini, watermelon and squash (summer and winter), momordica spp balsam apple, balsam pear, bitter melon, and Chinese cucumber.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Sudden wilt – Root and fruit rot (Phytophthora spp)	Foliar Spray	2-6 tsp. per gallon of water  Apply 1 fl. oz. per gallon of water <b>(CA only)</b>	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.
Gummy stem blight (Mycosphaerella melonis)			Apply when disease is evident. Continue applications at 21 day intervals until cure is apparent. Do not exceed a total of 6 applications per season.
Downy mildew (Pseudoperonospora cubensis)			Apply within 7 to 10 days of infection. Repeat as necessary. Do not exceed a total of 6 applications per season.



## FRUITING VEGETABLES\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of damping-off, root rot, and gummy stem blight diseases in eggplant, tomatoes, tomatillos, and peppers such as, but not limited to, bell, chili, cooking, pimento, and sweet.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Eggplant: Pythium and Phytophthora spp, and Gummy stem blight (Mycosphaerella melonis)	Foliar Spray	Apply 1 fl. oz. per gallon of water.	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.  Apply when disease is evident. Continue applications at 21-day intervals until cure is apparent.  Do not exceed a total of 6 applications per season
Peppers: Late blight and root rot (Phytophthora infestans and Phytophthora spp )	Foliar Spray	2 tsp. to 2 fl. oz. per gallon of water	First application at transplant or when direct seeded crops are at 2-4 true leaf, then at one to two week intervals as required to control disease. In high disease situations use higher rates and shorter spray intervals.
Tomatoes/Tomatillos: Late blight and root rot (Phytophthora infestans and Phytophthora spp )	Foliar Spray	2 tsp. to 2 fl. oz. per gallon of water  <b>California:</b> 3 tsp. per gallon of water	First application at transplant or when direct seeded crops are at 2-4 true leaf, then at one to two week intervals as required to control disease. In high disease situations use higher rates and shorter spray intervals.

\*Use in California limited to tomatoes and tomatillos.

## GRAPES

Use ORGANOCIDE PLANT DOCTOR™ for effective control of downy mildew diseases in grapes.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Downy mildew (Plasmopara viticola)	Foliar Spray	½ fl. oz per gallon of water.	It is essential that the rate of ORGANOCIDE PLANT DOCTOR™ be adjusted to the vine-row volume, i.e., the volume of vine foliage per acre. Spray timing is critical. Apply ORGANOCIDE PLANT DOCTOR™ at times of high disease risk, especially between the time that conditions are conducive to downy mildew infection and the appearance of oil spots. Ensure spray coverage is adequate and that the appropriate rate of ORGANOCIDE PLANT DOCTOR™ is applied to match vine growth, particularly from mid-season onwards, and especially where grapes are grown on root stock.

## HOPS\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of downy mildew in hops.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Downy mildew	Foliar spray by ground equipment only.	2-6 tsp. per gallon of water.	When conditions favor disease, apply when <b>A.</b> Shoots are ½ to 1 foot long. <b>B.</b> Post-training when vines are 6 feet high. <b>C.</b> 21 days postapplication (B) <b>D.</b> During bloom

\*Not for use in California.

## LEAFY VEGETABLES\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of downy mildew in leafy vegetables such as, but not limited to, amaranth, arugula, cardoon, celery, chervil, corn salad, endive, fennel, lettuce, parsley, radicchio, rhubarb, spinach, and Swiss chard. Excludes Brassica vegetables.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Downy mildew (Bremia lactucae)	Foliar spray	1 2/3 fl. oz. per gallon of water	Ensure spray coverage is adequate to wet the whole plant.  During warm, wet conditions repeat application at 7 to 10 day intervals, if needed.

\*Use in California limited to lettuce.

## LEGUMES\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of damping-off and root rot diseases in legumes (succulent and dried) such as, but not limited to, green beans, soybeans, wax beans, field beans, navy beans, lima beans, fava beans, kidney beans, pinto bean, mung beans, broad beans, lentils, chickpeas, English peas, snow peas, sugar snap peas, black-eyed peas, cow peas, and pigeon peas.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Phytophthora and Pythium spp	Foliar spray	2 tsp. to 2 fl. oz per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

\*Not for use in California.

## MANGOS

Use ORGANOCIDE PLANT DOCTOR™ for of anthracnose in mangos.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Anthracnose (Colletotrichum gloeosporoides)	Foliar spray	2 tsp. per gallon of water	Spray tree every 14 days during blossom period, then monthly until harvest. Spray to the point of run-off.

## NONGRASS ANIMAL FEED\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of damping-off and root rot diseases in forage crops such as, but not limited to, alfalfa, clover, and vetch.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Phytophthora and Pythium spp	Foliar spray	2 tsp. to 2 fl. oz per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

\*Not for use in California.

## OKRA\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of damping-off and root rot diseases in okra.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Phytophthora and Pythium spp	Foliar spray	2 tsp. to 2 fl. oz per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

\*Not for use in California.

## ONIONS

Use ORGANOCIDE PLANT DOCTOR™ for effective control of downy mildew disease in onions, garlic, shallots, and leeks. Use as a preventative control program for best results.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Downy mildew (Peronospora destructor)	Foliar spray	4 tsp. per gallon of water	As a regular preventative control program or when disease first appears.

## PEANUTS\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of damping-off and root rot disease in peanuts.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Phytophthora and Pythium spp	Foliar spray	2 tsp. to 2 fl. oz per gallon of water	Apply at 14-day intervals as necessary. Ensure thorough coverage.

\*Not for use in California.

## PINEAPPLES

Use ORGANOCIDE PLANT DOCTOR™ for effective control of Phytophthora root and heart rot diseases in pineapples.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Phytophthora root and heart rot (Phytophthora cinnamomi and parasitica spp)	Foliar spray	1 2/3 to 3 1/3 fl. oz. per gallon of water	Apply to tops, 14 days prior to harvest of planting material.
	Pre-plant dip	2 tsp. per gallon of water	Established plantings when conditions favor disease. Apply at 90 day intervals.
	Foliar spray	2/3 fl. oz. per gallon of water	Ensure thorough coverage of plants.

## ROOT AND TUBER VEGETABLES\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of foliar and root rot in ginseng, damping-off and root rot diseases in carrots, and late blight disease and storage diseases such as pink rot and pythium leak in potatoes, sweet potatoes, and yams.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Ginseng: Foliar and root rot (Phytophthora cactorum)	Foliar spray	4½ tsp. per gallon of water	In cool wet conditions that favor Phytophthora. Apply at 7 day intervals. Do not exceed a total of 8 applications per season.
Carrots: Root Rot and Pythium spp	Foliar spray	2 tsp. to 2 fl. oz. per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.
Potatoes, Sweet Potatoes, Yams: Pink rot & Pythium leak (Phytophthora erythroseptica and Pythium spp)	In-furrow spray	6½ to 16 fl. oz. per gallon of water	Apply in a band spray directly over top of potato seed just before row is closed.
Potatoes, Sweet Potatoes, Yams: Late blight, Pink rot and Pythium leak (Phytophthora infestans, Phytophthora erythroseptica and Pythium spp)	Foliar spray	2/3 to 3 tsp. per gallon of water	Apply at 5 to 14 day intervals subject to disease incidence.

\*Use in California limited to potatoes, sweet potatoes, and yams.

## STONE FRUIT\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of root, collar rot and almond pruning wound canker disease in stone fruit such as, but not limited to, sweet and tart cherries, peaches, plums, and fresh prunes.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Root and collar rot (Phytophthora spp)	Foliar spray	1/3 fl. oz. per gallon of water	Three treatments are required. 1. Spring 2. Mid summer 3. Fall, post harvest
	Basal bark spray apply spring and fall for best results	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Pentra- Bark™ Bark Penetrating Surfactant	Spray a combination of ORGANOCIDE PLANT DOCTOR™ and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)
Almond pruning – wound cankers (Phytophthora syringae)	Paint or spray	1/3 to ¾ fl. oz. per gallon of water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet. In high disease situations use higher rate.

\*Not for use in California.

## STRAWBERRIES

Use ORGANOCIDE PLANT DOCTOR™ for effective control of leather rot, red stele and Phytophthora disease in strawberries.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Red stele (Phytophthora fragariae)	Pre-planting dip	1/3 fl. oz. per gallon of water	Dip planting material in this solution for 30 minutes, then plant within one day. Use program for annual and perennial varieties.
	Foliar spray	2 to 6 tsp. per gallon of water  2 to 3 tsp. per gallon of water <b>(CA only)</b>	Annual crops, first treatment 14 to 21 days post planting, repeat at 1-2 month intervals when disease is evident. Perennial crops, first treatment during spring growth flush, repeat at 1-2 month intervals when disease is evident. For susceptible varieties use higher rates and shorter spray intervals.

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## STRAWBERRIES (Continued)

Leather rot (Phytophthora cactorum)	Foliar spray	2 to 6 tsp. per gallon of water  2 to 3 tsp. per gallon of water <b>(CA only)</b>	Apply at 10% bloom and early fruit set, then at one to two week intervals as required for disease control. In high disease situations use higher rates and shorter spray intervals.
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## TREE NUTS\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of root and collar rot, and almond pruning-wound canker disease in tree nuts such as, but not limited to, almonds, beech nuts, Brazil nuts, butternuts, cashews, chestnuts, chinquapin, hazelnuts, hickory nuts, macadamia nuts, pecans, and walnuts.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Other than macadamia nuts: Root and collar rot (Phytophthora spp)	Foliar spray	2 tsp. per gallon of water	Three treatments are required.  1. Spring 2. Mid summer 3. Fall, post harvest
Other than macadamia nuts: Almond pruning – wound canker (Phytophthora syringae)	Paint or spray	4½ tsp. per gallon of water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet.
Macadamia nuts: Raceme blight (Phytophthora spp)	Foliar spray	3 tsp. per gallon of water	Apply when disease is first seen and reapply at 3 week intervals. Spray to the point of run-off.

\*Not for use in California.

## LANDSCAPE APPLICATIONS\*

Use ORGANOCIDE PLANT DOCTOR™ for effective control of Phytophthora and Pythium spp and other diseases associated with Sudden Oak Death, Beech Decline, and general tree decline syndromes. Apply ORGANOCIDE PLANT DOCTOR™ to trees such as, but not limited to, Beech, Cedar, Chestnut, Crab Apple, Dogwood, Elm, Fir, Juniper, Linden, Pine, Oaks (Coastal, Live, Shreve, Black, Canyon), Ornamental Pear, Sweet Birch, Sweet Gum, Sycamore, White Pine, White Cedar, and Willow.

Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. 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. Do not apply to trees that are in a state of dormancy. Do not exceed indicated spray intervals or label rates in order to avoid tree injury.

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## LANDSCAPE APPLICATIONS (Continued)

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Phytophthora and Pythium spp, and Phytophthora ramorum	Injection	11 fl. oz. per 21 fl. oz. of water Or 1/2 tsp. per tsp. of water	<p>Drill holes 3/16 inch (5 mm) in diameter <u>into live sapwood</u> (depth dependent upon age of tree) with downward angle into trunk uniformly around the tree circumference, using a slow drill. Do not inject into areas of obvious decay, canker or mechanical injury that appear on the tree trunk. Calculate the amount of product required by measuring the trees by one of the following 3 methods, and use the highest calculated number of injections.</p> <p>1) 1 injection per square yard of canopy; 2) 1 injection per yard of diameter of canopy measured at the dripline; 3) 1 injection per 6 inches of trunk circumference measured 4 feet above soil level. Make injections with applicators that maintain positive pressure differential such as ChemJet®, Sidewinder®, Ag-murph Gun®, Marley® Injector, or hydraulic applicator type equipment that forces solution into the sapwood of the tree.</p>
Phytophthora and Pythium spp, and Phytophthora ramorum	Basal bark spray (all other tree species) apply spring and fall for best results or anytime active growth occurs	16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Pentra- Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, and backpack sprayers.

## LANDSCAPE APPLICATIONS (Continued)

<p>Fusarium subglutinans (Pine Pitch Canker)</p>	<p>Basal bark spray (Pine)</p>	<p>16 fl. oz. ORGANOCIDE PLANT DOCTOR™ + 32 fl. oz. water + 0.5 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant</p>	<p>Spray a combination of ORGANOCIDE PLANT DOCTOR™ and Pentra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)</p>
<p>Fusarium subglutinans (Pine Pitch Canker) and Gnomonia platani (Sycamore Anthracnose)</p>	<p>Injection</p>	<p>20 ml per tree of a 16 fl. oz. ORGANOCIDE PLANT DOCTOR™ + 32 fl. oz. of water + 0.5 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant solution.</p>	<p>Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murf gun, or hydraulic tree injection. Trees should be at least 10" diameter at breast height.</p>
<p>Apple black spot and scab (Venturia inaequalis), and Suppression of Anthracnose</p>	<p>Basal bark spray apply in early spring at bud swell or silver tip stage of growth</p>	<p>16 fl. oz. + 16 fl. oz. of water + 1 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant</p>	<p>Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Can be used as a preventative or curative application for trees listed. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices.</p>

\*Use in California limited to Oaks (Coastal, Live, Shreve, Black, Canyon), Tan Oaks, and other tree species that are host to *P. ramorum*. Applications limited to injection and basal bark spray of pines, basal bark spray of apples and crabapples, and injection of Sycamores for control of Sycamore anthracnose. Do not apply to any other tree species without consulting the list of *P. ramorum* host species listed at the following website:

<http://nature.berkeley.edu/comtf/index.html>. For questions contact your local extension office.



## ORNAMENTAL APPLICATIONS

Use ORGANOCIDE PLANT DOCTOR™ for effective control of Bacterial blight, Downy mildew, Phytophthora spp [Root Rot], and Pythium spp [Damping-off] diseases, and Sudden Oak Death of Ornamentals in landscapes and interiorscapes. Apply ORGANOCIDE PLANT DOCTOR™ to plants such as, but not limited to, Aglaonema, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Diffenbachia, English ivy, Eucalyptus, Ficus, Hibiscus, Japanese andromeda, Japanese Holly, Leather leaf Fern, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses (container, landscape, mini varieties), Schefflera, Sedum, Sempervivum, Syngonium, Spathiphyllum, Taxus media, and Zygocactus.

Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed. Do not apply to plants that are in a state of dormancy. When applying to indoor plants do not overspray and use care to apply only to target plants. If meeting these conditions is not possible, remove plants to an outdoor location for treatment and drying before bringing back indoors.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Bacterial blight (Xanthomonas campestris) pothovars: dieffenbachiae, ficu hederiae and syngonli	Foliar spray	2-4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days Repeat as required.
Downy Mildew	Foliar spray	2½-5 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
Root Rot, Phytophthora ramorum, and Damping-off	Foliar spray	2-4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil Drench	1/8 tsp. per gallon of water	Apply each 25 gallons of solution to an area of 100 sq feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
	Soil incorporation	1-2 pints per cubic yard of soil	Just prior to potting, mix 1 to 2 pts of ORGANOCIDE PLANT DOCTOR™ into each cubic yard of growing media. If disease pressure is high, make application by foliar spray or soil drench.
	Bare rooted dipping of transplants	2 tsp. per gallon of water	Immediately before transplanting, dip transplants for two minutes, keep roots submerged, ensure root mass is thoroughly wet.

## BEDDING PLANTS

Use ORGANOCIDE PLANT DOCTOR™ for effective control of Downy mildew, *Phytophthora* spp [Root Rot] and *Pythium* spp [Damping-off] diseases of BEDDING PLANTS outdoors and in interiorscapes. Apply ORGANOCIDE PLANT DOCTOR™ to plants such as, but not limited to, Ageratum, Algerian Ivy, Anthurium, Artemesia, Aster, Begonia, Baby's Breath, Caladium, Carnation, Chrysanthemum, Columbine, Coleus, Daisy, Delphinium, Easter Lily, English Ivy, Foxglove, Gaillardia, Geranium, Gloxinia, Impatiens, Marigold, Petunia, Pansy, Phlox, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Vinca, Verbena, and Zinnia.

Make applications to outdoor or indoor plants before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed. When applying to indoor plants do not overspray and use care to apply only to target plants. If meeting these conditions is not possible, remove plants to an outdoor location for treatment and drying before bringing back indoors.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Downy Mildew	Foliar spray	½ to 1 1/8 fl. oz. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
Root Rot, and Damping-off	Foliar spray	2-4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. Note: Do not apply more than 500 gallons of spray solution per acre.
	Soil Drench	1/8 tsp. per gallon of water	Apply each gallon of solution to an area of 4 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.

## CONIFERS\*

Apply ORGANOCIDE PLANT DOCTOR™ in conjunction with good cultural management practices for effective control of root rot (*Phytophthora* spp) in CONIFERS including, but not limited to, Pines, Spruce and Douglas Fir. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to CONIFERS that are moisture or heat stressed.

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## CONIFERS (Continued)

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Phytophthora spp	Foliar spray	2 to 4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	2 to 4 tsp. per gallon of water	Apply one gallon of solution per sq yd. Follow application with irrigation. Application intervals: 14 to 21 days. Repeat as required.
	Bare root dipping at transplanting	2 tsp. per gallon of water	Immediately before transplanting, dip transplants for two minutes; keep roots submerged and ensure root mass is thoroughly wet.
Fusarium subglutinans (Pine Pitch Canker)	Basal bark spray apply any time active growth occurs	16 fl. oz. ORGANOCIDE PLANT DOCTOR™ + 32 fl. oz. of water + 0.5 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, and backpack sprayers
Fusarium subglutinans (Pine Pitch Canker)	Injection	20 ml per tree of a 16 fl. oz. ORGANOCIDE PLANT DOCTOR™ + 32 fl. oz. of water + 0.5 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant solution.	Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murf gun, or hydraulic tree injection. Trees should be at least 10" diameter at breast height.

\*Use in California limited to injection and/or basal bark spray of pines.

# TURF

Use ORGANOCIDE PLANT DOCTOR™ for the effective control of Pythium and damping-off diseases of turf grasses. When conditions favor disease, begin preventive applications and repeat at indicated intervals. Use higher rate of application when disease pressure is severe.

DISEASE	APPLICATION METHOD	RATE	APPLICATION PROGRAM
Pythium	Foliar spray	5 to 10 fl. oz. per 1000 sq. ft.	Apply indicated quantity of product in 1 to 5 gal. of water per 1000 sq. ft. Ensure foliage is thoroughly wet. Application intervals: 14-21 days. Repeat as required. Do not irrigate or mow treated areas until spray has completely dried.

Do not graze animals on treated areas of turf. Do not feed treated turf clippings to poultry or livestock.

## 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 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.

### CONTAINER DISPOSAL:

Nonrefillable container. Do not use or refill this container. Offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP (1-800-253-2687) for disposal instructions. Never place unused product down any indoor or outdoor drain.

## WARRANTY AND DISCLAIMER

### 1. WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. **THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER. MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE.** UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER.

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