

42519-22

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 3, 2014

Luxembourg-Pamol, Inc.  
C/o SciReg, Inc.  
12733 Director's Loop  
Woodbridge, VA 22192  
Attn: Patricia Biggio

Subject: Notification to add an additional retail container size, 33.8 fluid ounces (1Liter), to ProPhyt label in accordance with PR Notice 98-10.

Product Brand Name: **PROPHYT.**  
EPA Reg. No: **42519-22.**  
Your Submission dated January 22, 2014.

Dear Ms. Biggio:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticide Registration Notice (PRN) 98-10 dated above. A screen of this request has been conducted for its applicability under PRN 98-10, and it has been determined that the action requested falls within the scope of this Notice. Our records have been duly noted, and the label submitted with this application has been stamped "Notification Accepted" and will be placed accordingly in our records.

Three (3) copies of final printed labeling must be submitted to the Agency before your product as modified, may be sold or distributed [PR Notice 82-2 and 40 CFR 156.10(a) 6)].

If you have any questions regarding this action, you may contact Mr. Sylvester George at (703) 603-0688 or via e-mail at [george.sylvester@epa.gov](mailto:george.sylvester@epa.gov).

Sincerely,

*Linda A. Hollis*

Linda A. Hollis, Chief  
Biochemical Pesticide Branch  
Biopesticides and Pollution  
Prevention Division (7511P)

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United States  
**Environmental Protection Agency**  
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 42519-22	2. EPA Product Manager L. Hollis	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ProPhyt	PM# 91	
5. Name and Address of Applicant (Include ZIP Code)  Luxembourg-Pamol, Inc. 3647 Willowbend Blvd., Suite 810 Houston, TX 77054  <input type="checkbox"/> Check if this is a new address	6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Addition of 33.8 fl. oz (1 Liter) to net contents.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
<b>* Certification must be submitted</b>	If "Yes" Unit Packaging wgt.	No. Per Container	If "Yes" Package wgt.	No. Per Container	<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 33.8 fl. oz (1 Liter); 2.5 gallons		5. Location of Label Directions <input checked="" type="checkbox"/> On label. <input type="checkbox"/> On label accompanying product.		
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Other _____ <input type="checkbox"/> Stenciled					

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Patricia Biggio	Title Agent (SciReg, Inc.)	Telephone No. (Include Area Code) 703/494-6500
<b>Certification</b> I certify that the statements which I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature <i>Patricia Biggio</i>	3. Title Agent (SciReg, Inc.)	
4. Typed Name Patricia Biggio	5. Date 22 Jan 2014	

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SciReg, Inc.  
Science and Regulatory Consultants

January 22, 2014

Ms. Linda Hollis  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

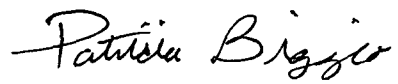
Re: ProPhyt (EPA Reg. No. 42519-22)  
- Notification consistent with PR Notice 98-10

Dear Ms. Hollis:

On behalf of Luxembourg-Pamol, Inc., SciReg, Inc. is submitting a notification consistent with PR Notice 98-10 to add an additional retail container size, 33.8 fluid ounces (1 Liter), to the ProPhyt label.

Should you have any questions, please contact me at (703) 494-6500 or [pbiggio@SciReg.com](mailto:pbiggio@SciReg.com).

Sincerely,



Patricia Biggio  
Regulatory Specialist

Enclosures

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Master Label

# ProPhyt®

[A systemic fungicide containing potassium phosphite]

[A systemic fungicide for the control of several foliar and soil-borne diseases of field crops, grapes, herbs, orchards, tree nuts and vegetables]

[A systemic fungicide containing potassium phosphite for the control of several foliar and soil-borne diseases of field crops, grapes, herbs, orchards, tree nuts and vegetables]

**ACTIVE INGREDIENT:**

Potassium Phosphite\* ..... 54.50%

**OTHER INGREDIENTS:** ..... 45.50%

**TOTAL** ..... 100.00%

\*Phosphorous acid equivalent: 34.30% (4.2 lbs/gal)

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

#### FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

#### HOT LINE NUMBER 1-800-424-9300

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical information.

**See side panel for additional precautionary statements.**

EPA Reg. No.: 42519-22

Net Contents: 33.8 fl. oz. (1 liter), 1, 2.5, or 250 gallons

EPA Est. No.: 42519-ISR-002

**Manufactured for:**

**LUXEMBOURG – PAMOL, INC.**

**3647 Willowbend Blvd., Suite 810**

**Houston, Texas 77054 U.S.A.**

**Customer Service (713) 661-8800**

Batch No. XXXX-XX

**FOR CHEMICAL SPILL, LEAK,  
FIRE OR EXPOSURE CALL  
TOLL FREE: 1-800-424-9300**

**AGRICULTURAL CHEMICAL**

**DO NOT SHIP OR STORE WITH FOODS, FEEDS, DRUGS OR CLOTHING**

**PRECAUTIONARY STATEMENTS****Hazards to Humans and Domestic Animals****CAUTION**

Harmful if swallowed or if absorbed through skin. 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):**

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. Keep and wash PPE separately from other laundry.

**User Safety Recommendations:** 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:** For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 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 intervals (REI). 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 of 4 hours unless wearing appropriate PPE.

PPE requirement for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- coveralls
- waterproof gloves
- shoes plus socks

**CHEMIGATION****General Chemigation Information**

1. Apply this product only through drip (trickle), microjet, center pivot, solid set, hand move, or moving wheel irrigation system that does not contain aluminum components. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
6. Equip the pesticide supply tank with a means for continuous agitation either recirculation or mechanical agitator. Fill the supply tank with the appropriate amount of water and add the ProPhyt<sup>®</sup> slowly followed by any other products that are compatible and labeled for chemigation. Observe all cautions and limitations on the label of all products used in the mixtures. For fixed position irrigation systems such as center pivot etc., apply the pesticide toward the end of the irrigation cycle. Exact timing will depend upon the desired ProPhyt<sup>®</sup> application rate and the calibration of the system. For moving systems, apply the ProPhyt<sup>®</sup> continuously. In all cases, maintain thorough coverage of the crop.

**For Chemigation Systems Connected to Public Water Systems:**

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

#### **For Drip (Trickle) Chemigation and Sprinkler Chemigation Systems:**

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

#### **GENERAL INFORMATION**

ProPhyt<sup>®</sup> is a systemic product, which contains phosphorous acid. Phosphorous acid is effective in prevention and control of downy mildew and *Phytophthora*, by activation of the plants' natural resistance mechanism, as well as by direct activity on the fungus. ProPhyt<sup>®</sup> is intended for use as part of an Integrated Pest Management (IPM) system. When used in conjunction with good cultural management practices and as part of a complete disease control program, ProPhyt<sup>®</sup> will control downy mildew, purple blotch, late blight, brown rot (of citrus) and root rot in field crops, vineyards and orchards. In order to achieve maximum results in controlling the disease, carry out spraying before the appearance of the disease or when disease is first observed. Initiate applications when environmental conditions are favorable for disease development. The preharvest interval is 0 days for this product.

#### **MIXING AND APPLICATION INSTRUCTIONS**

Apply in sufficient water to ensure thorough coverage. Fill spray tank halfway with clean water. Add the required amount of ProPhyt<sup>®</sup> to the tank as indicated in the table below. While agitating, add the remaining amount of water. Apply solution directly to foliage, unless directed otherwise in the application rate table. For optimum control, thorough coverage is required.

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**COMPATIBILITY**

ProPhyt<sup>®</sup> is believed to be compatible with most commonly used pesticides. Consult specific product labels for additional information. Conduct a tank spray compatibility test when you plan to mix this product with other products. To determine the physical compatibility of this product with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, and then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding products to the spray tank.

Use tank-mix combinations on a small number of plants before treating large areas, as crop sensitivity to these mixtures may vary.

ProPhyt<sup>®</sup> has been evaluated for phytotoxicity on a large variety of crops under various normal field conditions. However, testing all crop varieties, in all mixtures and combinations is not feasible. Test a small portion of the area to be treated for phytotoxicity, before treating the entire area. Do not apply ProPhyt<sup>®</sup> to plants under stress.

**Important:**

Do not apply on plants when they are under water stress, or during severe weather conditions such as high or very low temperatures. Begin spraying when environmental conditions are favorable for the development of disease or as indicated below.

**APPLICATION INSTRUCTIONS**

Do not apply more than the following application rates. Unless specified, there is no limit to the number of applications. When applying ProPhyt<sup>®</sup>, be sure the spray solution has a pH > 5.5 to limit the possibility of phytotoxicity to the crop. Apply by air or ground in sufficient water for complete coverage of the foliage. Use a minimum of 5 gallons of water per acre by air, unless specified (see cranberries, pecans, snap beans and stone fruit). Apply by ground in a minimum of 20 gallons per acre.

Crop	Disease	Rate	Remarks
Asparagus	Spear slime & Crown rot ( <i>Phytophthora spp.</i> )	2-4 <sup>1</sup> pints/acre	Apply ProPhyt <sup>®</sup> to fully expanded asparagus ferns using sufficient water for thorough coverage. Do not apply to ferns once they begin to senesce.
Avocado	Root rot ( <i>Phytophthora</i> )	Foliar spray: 4 pints/acre	Make four preventive foliar applications with spray volumes of 125-300 gal/acre: twice (at 10-14 day interval) in each of two root growth seasons (usually May and July). Avoid applying during period of foliar growth.



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		<p>Injection: Measure the area under the tree canopy. Apply 0.034 fl. oz. (1 mL) of ProPhyt® in 0.68 fl. oz. (20 mL) water for each 10 feet of area under the canopy. Divide the total amount needed per tree by the number of injections to be spaced 3-6 inches apart.</p>	<p>Inject trees at spring flush. Remove 2-4 inches of soil from the base of the tree to uncover the top of the root flare. Drill 3/16-inch holes at a slight downward angle 1-2 inches into root flare to allow insertion of the syringe or injection tee to form an airtight contact with the xylem and the delivery point of the injection. Disinfect the drill bit with 20% bleach between trees. Inject only ProPhyt® and water. Make a second application during the summer flush.</p>
<p><b>Blueberry</b></p>	<p>Phytophthora &amp; Pythium root rot</p>	<p>4 pints/acre</p>	<p>Begin foliar applications at pink bud stage in the spring, and continue on a 14-21 day interval in a minimum of 50 gal/acre.</p>
	<p>Alternaria fruit rot (<i>Alternaria tenuissima</i>) Septoria leaf spot Anthracnose</p>	<p>4 pints/acre</p>	<p>Use cover and post-harvest sprays on a 14 day interval for suppression. Use sufficient water to obtain thorough coverage.</p>
<p><b>Brassica vegetables, such as broccoli, cabbage, cauliflower</b></p> <p>(See note 6 for full crop group)</p>	<p>Downy mildew</p>	<p>2-4<sup>1</sup> pints/acre</p>	<p>Make preventive foliar applications at 4-10 day interval as the disease situation dictates. Use sufficient water to obtain adequate coverage.</p>
<p><b>Bulb vegetables, such as garlic, onion, shallot</b></p> <p>(See note 7 for full crop group)</p>	<p>Downy mildew (<i>Peronospora destructor</i>) Purple blotch (<i>Alternaria porri</i>)</p>	<p>4 pints/acre</p>	<p>Apply preventively in 20-50 gal/acre<sup>2,3</sup>. Continue applications on a 7-14 day interval. Do not exceed 7 applications per crop season.</p>

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<p><b>Caneberries sub-group, such as blackberry</b></p> <p>(See note 8 for full crop group)</p>	<p>Phytophthora root rot</p> <p>Orange Cane Blotch (<i>Cephaeleuros virescens</i>)</p>	<p>4 pints/acre</p>	<p>Apply as a foliar spray after bud break (1-3 inches of new growth) and repeat 3-4 weeks later. Two additional applications may be made after harvest. Use a minimum of 40-50 gal/acre.</p>
<p><b>Citrus, such as grapefruit, kumquat, lemon, lime, orange</b></p>	<p>Phytophthora Brown rot</p>	<p>4 pints/acre</p>	<p>Make preventive foliar applications during spring and fall. Spray to wetness (about 100-250 gal/acre).</p>
	<p>Root rot (<i>Phytophthora spp.</i>)</p>	<p>Foliar spray: 4 pints/acre</p>	<p>Make preventive foliar applications when conditions favor disease development, usually three times annually (March-April, May-June, and Sept.-Oct.). Spray to wetness (about 100-250 gal/acre).</p>
		<p>Injection: Measure the area under the tree canopy. Apply 0.034 fl. oz. (1 mL) of ProPhyt® in 0.68 fl. oz. (20 mL) water for each 10 feet of area under the canopy. Divide the total amount needed per tree by the number of injections to be spaced 3-6 inches apart.</p>	<p>Inject trees at spring flush. Remove 2-4 inches of soil from the base of the tree to uncover the top of the root flare. Drill 3/16-inch holes at a slight downward angle 1-2 inches into root flare to allow insertion of the syringe or injection tee to form an airtight contact with the xylem and the delivery point of the injection. Disinfect the drill bit with 20% bleach between trees. Inject only ProPhyt® and water. Make a second application during the summer flush.</p>

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	Brown spot ( <i>Alternaria alternata</i> )	2-4 <sup>1</sup> pints/acre	Begin foliar applications starting on the spring flush, at petal fall and then maintain spraying on a 2 week interval until the fruit are 3 months old, or until conditions are no longer conducive for the disease.
<b>Citrus seedlings</b>	Phytophthora root rot	2 gal per 100 gal (2%)	Make drench of ½ pint solution per seedling in a 2 gallon soil sleeve or pot, every two months during the season the seedlings are actively growing. Application can be made through drip irrigation system. Do not apply before or after drastic pruning. Do not combine with other products.
<b>Conifers</b>	<i>Phytophthora</i> <i>Pythium</i> spp.	Preplant dip: 4 pints/100 gal	Plants such as Douglas Fir, spruce and pines. Thoroughly wet plant and root mass.
		Foliar application: 2-4 <sup>1</sup> pints/100 gal	Spray to wetness using no more than 400 gal/acre. Begin applications in the spring before growth starts. Do not apply more than once every 30 days.
<b>Corn</b>	Downy mildew	3-4 pints/acre	Use in conjunction with resistant cultivars. Make initial application within two weeks of emergence and a second application 10-14 days later.
<b>Cranberries</b>	Phytophthora root rot ( <i>Phytophthora</i> spp.)	4 pints/acre	Make three applications, by air or chemigation, on approximately a 3 week interval, starting at the rough neck stage, then at bloom and again during fruit development. (Aerial applications may be with 4 pints/acre in a spray volume of 20 gallons of water or with 2 pints/acre in a spray volume of 10 gallons of water, applied twice).

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<p><b>Cucurbits, such as cucumber, melon, pumpkin, squash (in open field and under coverage)</b></p> <p>(See note 9 for full crop group)</p>	Downy mildew	2-4 <sup>1</sup> pints/acre	Make preventive foliar applications at one-week intervals with a spray volume of 40-100 gal/acre, depending on size of plants. Use sufficient water to obtain adequate coverage.
	<i>Phytophthora capsici</i>	See remarks	Drench application of 4 pints per 100 gallons water to transplants prior to transplanting or a 5 fl. oz./1000 feet of row in furrow drench at planting, followed by weekly foliar applications at 6 pints/acre, beginning 2 weeks after planting will suppress this disease.
<p><b>Fruiting vegetables, such as tomato, tomatillo</b></p> <p>(See note 10 for full crop group)</p>	Late blight ( <i>Phytophthora infestans</i> )	4 pints/acre	Make preventive foliar applications starting 6 weeks after seeding or immediately after transplanting. Apply at 5-10 day interval. <sup>3</sup> Thorough coverage is required. Best applied with Mancozeb or Chlorothalonil.
<b>Ginseng</b>	Phytophthora foliar & root rot ( <i>Phytophthora cactorum</i> )	4 pints/acre	Make applications in 100 gal/acre beginning in the spring when conditions first become conducive to the disease. Repeat applications on a 7 day interval as long as conditions remain favorable for the disease. Do not apply more than 9 sprays a season.
<b>Grapes</b>	Downy mildew Phomopsis	2-4 <sup>1</sup> pints/acre	Prebloom, apply 50 gal/acre, postbloom apply 50-100 gal/acre. Spray preventively to control downy mildew <sup>3</sup> . Key to controlling Phomopsis is a season-long spray program on a 7-10 day interval starting at the 1-3 inch shoot stage. Do not exceed spray solution concentration of 0.5%.
<b>Herbs and Spices, such as basil, tarragon, thyme</b>	Downy mildew	3-4 <sup>1</sup> pints/acre	Best applied preventively on a 7 day interval in at least 30 gal of water/acre. Due to the number of herbs and

(See note 11 for full crop group)			spices, conduct a phyto-toxicity trial first on a limited area of the crop.
<b>Hops</b>	Downy mildew ( <i>Pseudoperonospora humuli</i> )	2-4 <sup>1</sup> pints/acre	Make applications at the first evidence of foliar infection using the following schedule 1) when shoots are 6-12 inches high, 2) after training when vines are 5-6 feet tall, 3) approximately 3 weeks after the second application, and 4) during bloom. Use sufficient water to insure complete coverage of the foliage.
<b>Leafy vegetables,</b> such as lettuce, spinach  (See note 12 for full crop group)	Downy mildew	2-4 <sup>1</sup> pints/acre	Make preventive foliar applications at 4-10 day interval as the disease situation dictates. Use a spray volume of 10-30 gal/acre. <sup>3</sup> Begin spraying at 2-4 leaf stage of growth.
Spinach	White rust	3-4 <sup>1</sup> pints/acre	Best applied in alternation with Quadris <sup>®</sup> 2.08F.
<b>Legume vegetables</b> such as edible beans, soybeans  (See note 13 for full crop group)	Downy mildew	3-4 <sup>1</sup> pints/acre	Start applications at flowering. Repeat on a 7 day interval or as conditions dictate. On soybeans, ProPhyt <sup>®</sup> may be mixed with a triazole fungicide to improve control of soybean rust and yields.
	Pythium and Rhizoctonia	4 fl. oz./1000 feet of row + 0.42 fl. oz./1000 feet of row of Quadris <sup>®</sup> 2.08F.	Apply in furrow at planting. For best control of damping off, apply in combination with Quadris <sup>®</sup> 2.08F.
Snap beans	Pythium cottony leak	4-6 <sup>1</sup> pints/acre	Apply at onset of disease and repeat every 7 days. Make aerial applications in a minimum of 10 gallons of water per acre.

Master Label

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Peanuts	Pythium Pod rot	4 pints/acre	Apply at pod set and 4 weeks later.
	Pythium + Rhizoctonia Pod rot	4 pints/acre ProPhyt® + 18.5 fl. oz./acre Abound® Flowable Fungicide	
Pepper	<i>Phytophthora capsici</i>	6 pints/acre	Drench application of 4 pints per 100 gallons water to transplants prior to transplanting or a 5 fl. oz./1000 feet of row in-furrow drench at planting followed by weekly foliar applications at 6 pints/acre beginning 2 weeks after planting will suppress this disease.
Pineapple	Heart rot ( <i>Phytophthora parasitica</i> )	Preplant dip: See remarks	Use 2 pints per 100 gallons per acre of slips.
		Established plantings: 3 pints/acre	Apply foliar sprays when conditions are conducive for disease development, or are forecast. Continue applications on a 3 month interval. Use sufficient water to insure complete coverage.
Pome Fruit, such as apple, pear	Collar & foot rot ( <i>Phytophthora spp.</i> )	2-4 <sup>1</sup> pints/acre	Apply in 100 gal/acre (thorough spray coverage is required) when conditions favor disease development, and continue on a 30-60 day interval. Use the low rate on the shorter interval, and the high rate on the longer interval.
Apple	Summer diseases (including <i>Alternaria blotch</i> , sooty blotch, fly speck & black pox)	4-6 <sup>1</sup> pints/acre	Use a combination of ProPhyt® at 4 pints/acre plus Captan 80 WDG at 3.75 lbs/acre. In the second and later cover sprays, use a 10-14 day interval. (Observe all restrictions on the Captan 80 WDG label.)

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	Scab	3-4 <sup>1</sup> pints/acre	Apply in combination with Mancozeb at 3 lbs/acre beginning at ¼ - ½ inch green tip through first cover on a 7-10 day interval or according to forecasted infection events. Continue with ProPhyt <sup>®</sup> + Captan 80 WDG in the remaining cover sprays.
Potato, pre-harvest	Late blight ( <i>Phytophthora infestans</i> )	4 pints/acre	Make preventive foliar applications starting 6 weeks after seeding. Apply on a 5-10 day interval. <sup>3</sup> Thorough coverage is required. Best applied with Catamaran <sup>®</sup> , Mancozeb, or Chlorothalonil.
	Storage rot diseases: pink rot ( <i>Phytophthora erythrocephala</i> ) Late blight tuber rot ( <i>Phytophthora infestans</i> ) and Pythium leak ( <i>Pythium spp.</i> )	At planting: 5-8 <sup>1</sup> pints/acre + 0.42 fl. oz./1000 feet of row Ridomil <sup>®</sup> Gold SL or 1.68 fl. oz./1000 feet of row MetaStar <sup>®</sup> 2E AG	Suppression of Pink rot, Late blight tuber rot and Pythium leak. Apply in a 6-8 inch band at planting in a minimum of 3 gallons of water per acre. Make applications directly over the seed pieces prior to row closure. Additional in-season applications of ProPhyt <sup>®</sup> + Ridomil <sup>®</sup> Gold SL may be necessary when disease conditions are severe, disease was present in a previous potato crop, or a susceptible or moderately susceptible variety is being grown.
		In field or in season: 8 pints/acre alone or 5 pints/acre + 4 pints/acre Catamaran <sup>®</sup>	Additional in season foliar applications of ProPhyt <sup>®</sup> + Ridomil <sup>®</sup> Gold SL may be necessary when disease conditions are severe, disease was present in a previous potato crop, or a susceptible or moderately susceptible variety is being grown. Initiate applications when tubers are at dime in size. Repeat 14 and 28 days later.

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<p><b>Potato, post-harvest</b></p>	<p>Late blight tuber rot (<i>Phytophthora infestans</i>) Pink rot (<i>Phytophthora erythrocephala</i>) Pythium leak (<i>Pythium spp.</i>) and Silver scurf rot (<i>Helminthosporium solani</i>)</p>	<p>13 fl. oz. in half a gallon of water sprayed on a ton of tubers</p>	<p>For suppression of Late blight tuber rot, Pink rot, Pythium leak, and Silver scurf.</p>
<p><b>Sorghum Grain</b></p>	<p>Downy mildew<sup>4</sup></p>	<p>36 fl. oz./100 lbs.</p>	<p>Seed treatment: Overtreat Apron<sup>®</sup> or Apron<sup>®</sup> XL treated seed that has 90% or more germinated.</p>
		<p>4-6<sup>1</sup> pints/acre<sup>5</sup></p>	<p>In-furrow spray: Spray in furrow at planting over Apron<sup>®</sup> or Apron<sup>®</sup> XL treated seed.</p>
<p><b>Stone Fruit</b></p> <p>Peaches and Nectarines</p>	<p>Collar &amp; root rot (<i>Phytophthora spp.</i>)</p> <p>Scab</p>	<p>2 pints/acre</p> <p>2 pints/acre plus Captan 80 WDG at 1.25 – 2.5 lbs/acre or Captec 4L at 2-4 pints/acre.</p>	<p>Apply in the spring when conditions are conducive for the disease. Use 100 gal/acre and repeat on a 60 day interval as necessary. Do not make more than 4 sprays per season.</p> <p>Start applications at Petal Fall to 1% shuck split. Repeat applications at the following stages as the disease pressure and weather conditions dictate:</p> <ul style="list-style-type: none"> <li>- Shuck split to 10% shuck off,</li> <li>- 7-10 days after shuck split,</li> <li>- Summer cover sprays on a 7 to 10 day interval to maintain control, up to the day harvest.</li> </ul> <p>Apply in 40-100 gallons per acres by ground. Thorough coverage allows better disease control. Do not apply by air.</p>
<p><b>Strawberry</b></p>	<p>Red stele (<i>Phytophthora fragariae</i>)</p>	<p>Preplant dip: 2 pints per 100 gallons of water</p>	<p>Apply for 15-30 minutes as a pre-plant dip to the roots and crowns. Plant within 24 hours of dipping.</p>



		Foliar spray: 2-4 <sup>1</sup> pints/acre	Annual planting. Begin foliar applications 2-3 weeks after planting and repeat on a 30-60 day interval while the weather is conducive to the disease. Perennial planting: Begin applications in the spring when the plants start growing actively. Repeat applications on a 30-60 day interval if the weather is conducive to the disease. Use the shorter interval and higher use rate on the susceptible varieties, or under heavy disease pressure.
	Leather rot ( <i>Phytophthora cactorum</i> )	2-4 <sup>1</sup> pints/acre	Begin applications at 10% bloom; continue spraying on a 7-14 day interval through fruit set while conditions are favorable for disease.
Sod Farms	Pythium	6 fl. oz. per 1000 sq. ft. at 14 day intervals	Begin preventive applications when conditions first favor disease. Repeat at recommended intervals. Do not water or mow treated areas until foliage is completely dry.
	Yellow tuft	12 fl. oz. per 1000 sq. ft. at 21 day intervals	
Tree Nuts: Almonds, Walnuts	Scab ( <i>Cladosporium spp.</i> )	2-4 pints/acre applied foliarly in 100 gallons water by ground	Begin applications on a 7-14 day interval (closer during rainfall) at petal fall. Continue until 5 weeks after petal fall.
	Anthracnose ( <i>Colletotrichum spp.</i> )		Apply sprays beginning at 5-10% bloom or pink bud, and repeat every 10-14 days if rains persist. Late spring rains may necessitate additional applications into May.
	<i>Alternaria alternate</i> (Suppression)		If monitoring indicates the presence of <i>Alternaria</i> , begin late-spring treatments about mid-April. In orchards with a history of the disease, treat in mid- to late April and 2-3 weeks later.
Almonds, Pistachios, Pecans, and Walnuts	Phytophthora root and collar rot	2-4 pints/acre applied foliarly in 100 gallons water by ground	Apply in spring, mid-summer and fall prior to senescence.

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<b>Pecans</b>	Scab ( <i>Cladosporium caryigenum</i> )  Anthracnose ( <i>Colletotrichum gleosporoides</i> )	2-3 pints/acre in 100 gallons water by ground or in 5-10 gallons water/acre by air	Apply on a preventative schedule beginning at bud break, and continue on a 10-14 day interval.  Applications to the nuts may be alternated or in conjunction with label rates of Elast® 400F or Super Tin® 80WP. The first three applications of ProPhyt® may be made by air to the young emerging foliage in 5 or more gallons of water/acre. Make later aerial applications in 7-10 gallons of water per acre.
<b>Walnuts</b>	Stem canker ( <i>Phytophthora cinnamomi</i> ) (Suppression)	3 quarts in 100 gallons water/acre	Make a single foliar application in the early fall, before leaves begin to senesce and the trees are still actively translocating to the roots. Make a single foliar application per season.
<b>Wheat</b>	Downy mildew ( <i>Sclerophthora macrospore</i> ) (Suppression)	3-4 pints/acre	Make applications at the onset of disease. Repeat treatments on a 7-10 day interval, as needed. Use 4 pints/acre for heavy disease pressure situations.

**Notes:**

- 1 Use higher rate when conditions favor disease development and/or with increased disease pressure.
- 2 Use a low spray volume, so that the material does not wash off or drip to the ground.
- 3 For prevention of downy mildew and/or late blight in bulb, fruiting and leafy vegetables, potato and grapes, combine ProPhyt<sup>®</sup> treatment with additional protective products, specifically with dithiocarbamates, by tank-mix or by alternating treatments.
- 4 To improve disease control, use varieties that have tolerance to downy mildew.
- 5 When spraying in-furrow, apply ProPhyt<sup>®</sup> alone in 20 gallons of water per acre.
- 6 Brassica (cole) leafy vegetables: broccoli, broccoli raab (rapini), Brussels sprouts, cabbage, Chinese broccoli (gai lon), Chinese cabbage (bok choy and napa), Chinese mustard cabbage (gai choy), cauliflower, cavalo broccolo, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, rape greens, turnip greens.
- 7 Bulb vegetables: chive, garlic, leek, green onion, dry bulb onion, Welsh onion, shallot.
- 8 Caneberry sub-group: blackberry, boysenberry, loganberry, red and black raspberry, cultivars and/or hybrids of these.
- 9 Cucurbit vegetables: cantaloupe, cucumber, Chinese waxgourd, citron melon, gherkin, gourd (edible), momordica spp. (balsam apple, balsam pear, bitter melon, Chinese cucumber) melon, muskmelon, varieties of *Cucumis melo*, pumpkin, summer and winter squash, watermelon.
- 10 Fruiting vegetables (except cucurbits): bell pepper, chili pepper, cooking pepper, eggplant, groundcherry, pepino, pimento, sweet pepper, tomatillo and tomato.
- 11 Herbs and spices: allspice, anise, balm. basil, chamomile, caraway, catnip, celery seed, coriander leaf, cilantro, dill, fennel, lavender, lemongrass, marigold, marjoram, pepper (black and white), rosemary, saffron, sage, savory, sweet bay, tansy, tarragon, thyme, vanilla, wintergreen, woodruff and wormwood.
- 12 Leafy vegetables (except brassica vegetables): amaranth, arugula, cardoon, celery, Chinese celery, celtuce, chervil, chrysanthemum, corn salad, cress (garden upland), endive, escarole fennel (florence), lettuce (head and leaf), parsley, purslane radicchio (red chicory), rhubarb, spinach, New Zealand and Vine spinach, Swiss chard.
- 13 Legume vegetables: Beans (succulent & dry) *Phaseolus*, Pea (succulent & dry) *Pisum*, and soybean. Commodities include: Bean (*Lupinus*) grain, sweet and white lupin, bean (*Phaseolus*) field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean.  
Bean (*Vigna*) adzuki bean, asparagus bean, blackeyed pea, broad bean (dry), catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, broad bean (fava), chickpea (garbanzo) guar, jackbean, lentil, Pea (*Pisum*) dwarf pea, edible pod pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea, pigeon pea, soybean (immature seed).

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a dry, cool 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 Handling:** Nonrefillable Container: Do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying.

Container sizes of 5 gallons or less: Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times.

Container sizes of greater than 5 gallons: Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank. Fill the container ¼ 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. Turn the container over onto its other 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 or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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To the extent consistent with applicable law, Luxembourg warrants that at the time of delivery, the product will conform to its chemical description on the label, that it will pass without objection in the trade under the contract description, that seller will convey good title thereto, and that such product will be delivered free from any lawful security interest, lien or encumbrance.

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