

2024-0448
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GROUP P07 FUNGICIDE

ProPhyt Fungicide

Fungicide for suppression of downy mildew and/or *Phytophthora* diseases on field potatoes, strawberries, grapes, listed brassicas, basil, listed cucurbits, listed leafy vegetables and outdoor ornamentals and partial suppression of *Phytophthora* diseases on listed fruiting vegetables, suppression of anthracnose fruit rot on blueberries, and suppression of bacterial leaf spot (*Xanthomonas campestris* pv. *vitiensis*) on leaf lettuce

And

Suppression of downy mildew and/or *Phytophthora* diseases and/or *Pythium* diseases on greenhouse tomatoes, eggplants, lettuce, cucumbers, peppers, basil, ornamentals, strawberry, chinese cabbage and partial suppression of *Phytophthora* diseases on tomatoes, eggplants and lettuce

and

Post-harvest application to potatoes for suppression of late blight, pink rot and silver scurf

Solution
Agricultural

REGISTRATION NO. 35097 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Mono- and di-potassium salts of phosphorous acid 54.5%

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 100 mL to Bulk

Registrant:
Luxembourg Industries Ltd
27 Hamered St.
Tel Aviv, Israel

North American Contact:
LUXEMBOURG-PAMOL, INC.
3647 Willowbend Boulevard, Suite 810
Houston, TX 77054, USA
1-877-343-4239

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PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN

Avoid breathing vapors or spray mist. May cause minimal eye irritation. Avoid contact with skin, eyes or clothing. Applicators and other handlers must wear protective eyewear, long pants and long-sleeved shirt, waterproof gloves, shoes plus socks. Remove contaminated clothing and wash clothing before reuse.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

Keep unprotected persons out of the treated areas of the greenhouse for the duration of the treatment period.

Allow entry or re-entry to greenhouse only after thorough ventilation and spray mist has cleared and the treated surface has dried.

ENVIRONMENTAL PRECAUTIONS:

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

FIRST AID:

If swallowed - Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing - Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes – Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE: Store this product away from food or feed.

DISPOSAL: Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, ProPhyt contains a Group P07 fungicide. Any fungal population may contain individuals naturally resistant to ProPhyt and other Group P07 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of ProPhyt or other Group P07 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify Luxembourg Industries Ltd if reduced sensitivity of the pathogen to ProPhyt is suspected.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

For further information and to report suspected resistance, contact Luxembourg Industries Ltd at 1-877-343-4239.

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DIRECTIONS FOR USE

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of waste.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT allow releases, effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

DO NOT apply by air.

This product may be tank mixed with (a fertilizer, a supplement, or with) registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label. In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Luxembourg Industries Ltd at 1-877-343-4239 for information before applying any tank mix that is not specifically recommended on this label.

Some research has indicated that products containing mono- and di-potassium salts of phosphorous acid may increase the uptake of certain metals into plants, thus care must be taken when using tank mixes containing pesticide products with a metal base (such as copper based fungicides) and/or micronutrients that may not be compatible and could potentially cause plant injury.

Mono- and di-potassium salts of phosphorous acid represent a reduced form of phosphate, often referred to as phosphite. There is **NO** scientific literature that supports the efficacy of phosphite as a source of nutritional phosphorous. Care must be taken to ensure proper plant nutrition when using phosphite in a spray regime. In extreme cases where phosphite is used on soils where there is an excess of phosphorous acid alkali metal salts, phosphate starvation may result.

Crop varieties may vary in their tolerance to mono- and di-potassium salts of phosphorous acid. Since not every variety of crops have been tested for tolerance to mono- and di-potassium salts of phosphorous acid, first use of this product should be limited to a small area of each variety, to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed supplier for information on the tolerance of specific varieties of each crop to mono- and dipotassium salts of phosphorous acid.

GENERAL APPLICATION INSTRUCTIONS

ProPhyt may be applied as foliar sprays, soil drenches or through sprinkler chemigation according to the crop-specific use directions. For foliar sprays, apply ProPhyt with sufficient water to ensure adequate coverage of foliage, according to crop and growth stage. To ensure good coverage, spray to wet but avoid run-off.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Apply this product only through center pivot, or solid set. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, contact local Extension Service specialists, equipment manufacturers or other experts. 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. 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.

The sprinkler irrigation 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 backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing valve to prevent the flow of fluid back toward the injection pump. 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. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the pressure decreases to the point where pesticide distribution is adversely affected. 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.

Do not apply when wind speed causes non-uniform distribution and/or favors drift beyond the area intended for treatment.

Do not apply by chemigation if the area to be treated is within 100 metres of a residential area or park.

When applying through sprinkler irrigation systems, apply continuously for the duration of the water application. After treatment has been completed, avoid further irrigation of the treated area until foliage is dry or for 24 to 48 hours.

MIXING INSTRUCTIONS

1. Fill the spray tank with 1/2 of the required volume of water.
2. Add ProPhyt slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

RATE INSTRUCTIONS FOR APPLICATIONS

CROP	DISEASE	RATES	RECOMMENDATIONS
Potatoes	Foliar or chemigation:	Apply ProPhyt at a rate of 5-10 L/ha in a	Use a maximum of 5 foliar and/or sprinkler chemigation applications of

	<p>Suppression of late blight (<i>Phytophthora infestans</i>) and pink rot (<i>Phytophthora erythroseptica</i>)</p>	<p>minimum of 100 L water/hectare.</p>	<p>ProPhyt per year in a preventive program for disease suppression.</p> <p>Begin applications when conditions are favourable for disease and continue on a 7- to 14-day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.</p> <p>ProPhyt is not recommended for use on potatoes intended for seed, as sufficient data does not exist to support this use.</p>
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Pre -Harvest Interval (PHI) = 1 day

Potatoes (Post-harvest treatment)

For the suppression of late blight (*Phytophthora infestans*), pink rot (*Phytophthora erythroseptica*) and silver scurf (*Helminthosporium solani*) on harvested potato tubers.

Dilute ProPhyt at a 1: 5.13 ratio with water. Apply 2 L of this solution as a spray to 1000 kg of potatoes prior to storage. Ensure complete and even coverage. A 1:5.13 ratio is equivalent to 326 mL product mixed with 1674 mL water to treat 1000 kg potatoes.

ProPhyt is not recommended for use on potatoes intended for seed, as sufficient data does not exist to support this use.

CROP	DISEASE	RATES	RECOMMENDATIONS
<p>Field fruiting vegetables (eggplant, tomatoes, tomatillos, and peppers such as, but not limited to, bell, chili, cooking, pimento, and sweet)</p>	<p>Foliar application: Suppression of late blight (<i>Phytophthora infestans</i>)</p> <p>Partial suppression of phytophthora foliar blight (<i>Phytophthora</i> spp.)</p>	<p>Apply ProPhyt at a rate of 5-10 L/ha in a minimum of 100 L water/hectare.</p>	<p>Use a maximum of 5 foliar and/or drip or sprinkler chemigation applications of ProPhyt per year in a preventive program for disease suppression.</p> <p>Begin applications when conditions are favourable for disease and continue on a 7- to 14-day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.</p>
<p>Greenhouse tomatoes, peppers and eggplant</p>	<p>Foliar application: Suppression of late blight (<i>Phytophthora infestans</i>)</p>		

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	<p>Partial suppression of phytophthora foliar blight (<i>Phytophthora</i> spp.)</p> <p>Foliar application or drip chemigation: Suppression of pythium root and fruit rot (<i>Pythium</i> spp.)</p>		
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CROP	DISEASE	RATES	RECOMMENDATIONS
Field brassicas (broccoli, brussels sprouts, cabbage, cauliflower, cavalo broccolo, collards, chinese cabbage, chinese mustard cabbage, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens)	Foliar application: Suppression of downy mildew (<i>Hyaloperonospora parasitica</i>)	Apply ProPhyt at a rate of 3-6 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar or drip chemigation applications of ProPhyt per year in a preventive program for disease suppression. Begin applications when conditions are favourable for disease and continue on a 7- to 21-day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.
Greenhouse chinese cabbage	<p>Foliar application or drip chemigation: Suppression of pythium root rot (<i>Pythium</i> spp.)</p> <p>Foliar application: Suppression of downy mildew (<i>Hyaloperonospora parasitica</i>)</p>		

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CROP	DISEASE	RATES	RECOMMENDATIONS
Field and greenhouse basil	Foliar application: Suppression of downy mildew (<i>Peronospora belbahrii</i>)	Apply ProPhyt at a rate of 3-5 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar or drip chemigation applications of ProPhyt per year in a

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Greenhouse basil	Foliar application or drip chemigation: Suppression of pythium root rot (<i>Pythium</i> spp.)	preventive program for disease suppression. Begin applications when conditions are favourable for disease and continue on a 7- to 14-day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.
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CROP	DISEASE	RATES	RECOMMENDATIONS
Field and greenhouse lettuce Field endive radicchio	Foliar application: Suppression of downy mildew (<i>Bremia lactucae</i>)	Apply ProPhyt at a rate of 3 - 7 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar or drip chemigation applications of ProPhyt per year in a preventive program for disease suppression. Begin applications when conditions are favourable for disease and continue on a 7- to 14-day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.
Greenhouse lettuce	Foliar or drip chemigation: Suppression of pythium root rot (<i>Pythium</i> spp.)		

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CROP	DISEASE	RATES	RECOMMENDATIONS
Field cucurbit vegetables (cucumber, chinese wax gourd, citron melon, cantaloupe, honeydew melon, pumpkin, zucchini, watermelon and squash (summer and winter), <i>Momordica</i> spp. balsam apple, balsam pear, bitter melon, and chinese cucumber)	Foliar application: Suppression of downy mildew (<i>Pseudoperonospora cubensis</i>)	Apply ProPhyt at a rate of 3-5 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar applications of ProPhyt per year in a preventive program for disease suppression. Begin applications when conditions are favourable for disease and continue on a 7- to 14-day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.

Greenhouse cucumbers	Foliar application: Suppression of downy mildew (<i>Pseudoperonospora cubensis</i>)	Apply ProPhyt at a rate of 3-5 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar applications of ProPhyt per year in a preventive program for disease suppression. Begin applications when conditions are favourable for disease and continue on a 7- to 14-day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.
	Foliar or drench application: Suppression of pythium root and fruit rot (<i>Pythium</i> spp.)	Apply ProPhyt at a rate of 3-6 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 drench applications via drip chemigation of ProPhyt per year in a preventive program for disease suppression. Begin applications when conditions are favourable for disease and continue on a 7- to 14-day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.

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CROP	DISEASE	RATES	RECOMMENDATIONS
Field grapes	Foliar application: Suppression of downy mildew (<i>Plasmopara viticola</i>)	Apply ProPhyt at a rate of 2.9 L in 500 L water per hectare prebloom and 5.8 L in 1000 L water per hectare postbloom.	Use a maximum of 9 foliar applications of ProPhyt per year in a preventive program for disease suppression. Begin applications when conditions are favourable for disease and continue on a 7- to 14-day interval. Use the shorter application interval when disease pressure is moderate to high.

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CROP	DISEASE	RATES	RECOMMENDATIONS
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Field blueberries (highbush and lowbush)	Foliar application: Suppression of anthracnose fruit rot (<i>Colletotrichum acutatum</i>)	Apply ProPhyt at a rate of 4-5 L/ha in a minimum of 100 liters of water/hectare.	Use a maximum of 5 foliar applications of ProPhyt per year in a preventive program for disease suppression. Begin applications when conditions are favourable for disease and continue on a 7- to 21-day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.
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CROP	DISEASE	RATES	RECOMMENDATIONS
Field and greenhouse strawberries	Foliar application: Suppression of leather rot (<i>Phytophthora cactorum</i>)	Apply ProPhyt at a rate of 4 - 5 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 5 foliar or drip chemigation applications of ProPhyt per year in a preventive program for disease suppression.
Greenhouse strawberries	Foliar application or drip chemigation: Suppression of pythium root and fruit rot (<i>Pythium</i> spp.), crown and root rot (<i>Phytophthora</i> spp.)		Begin applications when conditions are favourable for disease and continue on a 7-day interval. Use the higher rate when disease pressure is moderate to high.

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CROP	DISEASE	RATES	RECOMMENDATIONS
Field and greenhouse ornamentals, including bedding plants, potted plants and cut flowers	Foliar and drench application: Suppression of phytophthora root rot and foliar blight (<i>Phytophthora</i> spp., except <i>P. ramorum</i> , <i>P. cryptogea</i>)	Apply ProPhyt at a rate of 1.3 L/100 L water.	Use a maximum of 9 foliar and/or drench applications of ProPhyt per year in a preventive program for disease suppression. For foliar applications, apply to thoroughly wet foliage. For drench applications, apply 5-10 L of diluted solution/m ² . Adjust volume as needed to thoroughly wet media. Begin applications when conditions are favourable for disease and continue on a 14- to 28-day interval. Use the shorter application interval when disease pressure is moderate to high.
	Foliar application: Suppression of downy mildew (<i>Peronospora lamii</i>)	Apply ProPhyt at a rate of 1.3 L/100 L water.	Use a maximum of 9 foliar applications of ProPhyt per year in a preventive program for disease suppression. Apply to thoroughly wet foliage. Begin applications when conditions are favourable for disease and continue on a 7day interval.

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<p>The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Luxembourg Industries Ltd under the User Requested Minor Use Label Expansion program. For these uses, Luxembourg Industries Ltd has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.</p>			
CROP	DISEASE	RATES	RECOMMENDATIONS
Field leaf lettuce	Foliar application: Suppression of bacterial leaf spot (<i>Xanthomonas campestris</i> pv. <i>vitians</i>)	Apply ProPhyt at a rate of 7 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar applications of ProPhyt per year in a preventive program for disease suppression. Begin applications when conditions are favourable for disease development and continue on a 7-day retreatment interval.

Pre-Harvest Interval (PHI) = 1