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# WINFIELD PHOSPHITE EXTRA FUNGICIDE

FUNGICIDE FOR SUPPRESSION  
OF  
DOWNY MILDEW AND PHYTOPHTHORA DISEASES ON  
POTATOES, FRUITING VEGETABLES, BLUEBERRIES, STRAWBERRIES,  
GRAPES, BRASSICAS, CUCURBITS, LEAFY VEGETABLES AND OUTDOOR  
ORNAMENTALS

<b>GROUP</b>	<b>33</b>	<b>FUNGICIDE</b>
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LIQUID  
AGRICULTURAL

REGISTRATION NO. 30650 PEST CONTROL PRODUCTS ACT

GUARANTEE: Mono- and di-potassium salts of phosphorous acid 53.0%

READ THE LABEL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

**In case of medical emergency or poisoning contact 1-877-762-4573 (24 hours a day). For all other inquiries contact the Agronomy Company of Canada at 519-461-9057.**

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Manufactured by:  
Winfield Solutions LLC  
P.O. Box 64589  
St. Paul, MN 55164  
519-461-9057

Canadian

Agent  
The Agronomy Company of Canada  
17554 Plover Mills Road  
Thorndale, ON N0M 2P0

## **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 inversion, application equipment, and sprayer settings.

**ENVIRONMENTAL HAZARDS:**

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 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:** To prevent contamination, 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 requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial 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. The user assumes the risk to persons or property that arises from any such use of this product.

**RESISTANCE MANAGEMENT RECOMMENDATIONS:** For resistance management, please note that WINFIELD PHOSPHITE EXTRA Fungicide contains a Group 33 fungicide. Any fungal population may contain individuals naturally resistant to WINFIELD PHOSPHITE EXTRA Fungicide and other Group 33 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same sites. 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 WINFIELD PHOSPHITE EXTRA Fungicide or other Group 33 fungicides with different groups that control the same pathogens.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for sign of resistance development. 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 target 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 disease problems in your area.

For further information or to report suspected resistance, contact company representatives at 519-461-9057 or at [www.agromartgroup.com](http://www.agromartgroup.com).

#### **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 apply by air.

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 di-potassium salts of phosphorous acid.

### **GENERAL APPLICATION INSTRUCTIONS**

WINFIELD PHOSPHITE EXTRA FUNGICIDE may be applied as foliar sprays, soil drenches or through sprinkler chemigation according to the crop-specific use directions. For foliar sprays, apply WINFIELD PHOSPHITE EXTRA FUNGICIDE with sufficient water to ensure adequate coverage of foliage, according to crop and growth stage. To insure 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.

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.

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

**MIXING INSTRUCTIONS**

1. Fill the spray tank with 1/2 of the required volume of water.
2. Add WINFIELD PHOSPHITE EXTRA FUNGICIDE 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.

**GENERAL RATE INSTRUCTIONS FOR APPLICATIONS**

CROP	DISEASE	RATES	RECOMMENDATIONS
Potatoes	Late blight ( <i>Phytophthora infestans</i> )  Pink rot ( <i>Phytophthora erythroseptica</i> )	Apply WINFIELD PHOSPHITE EXTRA FUNGICIDE at a rate of 5-10 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 5 foliar and/or chemigation applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  Begin applications when conditions are favourable for disease and continue on a 7-14 day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.  <b>WINFIELD PHOSPHITE EXTRA Fungicide is not recommended for use on potatoes intended for seed, as sufficient data does not exist to support this use.</b>

Pre-Harvest Interval (PHI) = 1 day

**WINFIELD PHOSPHITE EXTRA Fungicide is not recommended for use on potatoes intended for seed, as sufficient data does not exist to support this use.**

CROP	DISEASE	RATES	RECOMMENDATIONS
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Fruiting vegetables (egg plant, tomatoes, tomatillos, and peppers such as, but not limited to, bell, chili, cooking, pimento, and sweet)	Late blight ( <i>Phytophthora infestans</i> )  Phytophthora foliar blight ( <i>Phytophthora</i> spp.)	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 5-10 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 5 foliar and/or chemigation applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  Begin applications when conditions are favourable for disease and continue on a 7-14 day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.
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Pre-Harvest Interval (PHI) = 1 day

<b>CROP</b>	<b>DISEASE</b>	<b>RATES</b>	<b>RECOMMENDATIONS</b>
Brassicas  (broccoli, Brussels sprouts, cabbage, cauliflower, cavalo broccolo, collards, Chinese cabbage, Chinese mustard cabbage, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens)	Downy mildew ( <i>Hyaloperonospora parasitica</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 3-6 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  Begin applications when conditions are favourable for disease and continue on a 7-21 day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high

Pre-Harvest Interval (PHI) = 1 day

<b>CROP</b>	<b>DISEASE</b>	<b>RATES</b>	<b>RECOMMENDATIONS</b>
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Basil	Downy mildew ( <i>Peronospora belbahrii</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 3-5 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  Begin applications when conditions are favourable for disease and continue on a 7-14 day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.
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Pre-Harvest Interval (PHI) = 1 day

CROP	DISEASE	RATES	RECOMMENDATIONS
Lettuce Endive Radicchio	Downy mildew ( <i>Bremia lactucae</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 3-7 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  Begin applications when conditions are favourable for disease and continue on a 7-14 day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.

Pre-Harvest Interval (PHI) = 1 day

CROP	DISEASE	RATES	RECOMMENDATIONS
Cucurbit vegetables (cucumber, Chinese waxgourd, citron melon, cantaloupe, honeydew melon, pumpkin, zucchini, watermelon and	Phytophthora foliar blight ( <i>Phytophthora capsici, P. nicotianae</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 5-6 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 6 foliar applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.

squash (summer and winter), <i>Momordica</i> spp. balsam apple, balsam pear, bitter melon, and Chinese cucumber)	Downy Mildew ( <i>Pseudoperonospora cubensis</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 3-5 L/ha in a minimum of 100 L water/hectare.	Begin applications when conditions are favourable for disease and continue on a 7-14 day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.
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Pre-Harvest Interval (PHI) = 1 day

CROP	DISEASE	RATES	RECOMMENDATIONS
Grapes	Downy Mildew ( <i>Plasmopara viticola</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 2.9 L in 500 L water per hectare pre-bloom and 5.8 L in 1000 L water per hectare post-bloom.	Use a maximum of 9 foliar applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  Begin applications when conditions are favourable for disease and continue on a 7-14 day interval. Use the shorter application interval when disease pressure is moderate to high.

Pre-Harvest Interval (PHI) = 1 day

CROP	DISEASE	RATES	RECOMMENDATIONS
Blueberries (highbush and lowbush)	Phytophthora foliar blight ( <i>Phytophthora cinnamomi</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 6 L/ha in a minimum of 100 liters of water/hectare.	Use a maximum of 5 foliar applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  Begin applications when conditions are favourable for disease and continue on a 14-28 day interval. Use the shorter application interval when disease pressure is moderate to high.



	Anthracnose fruit rot ( <i>Colletotrichum acutatum</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide 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 WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  Begin applications when conditions are favourable for disease and continue on a 7-21 day interval. Use the higher rate and shorter application interval when disease pressure is moderate to high.
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Pre-Harvest Interval (PHI) = 1 day

CROP	DISEASE	RATES	RECOMMENDATIONS
Strawberries	Leather rot ( <i>Phytophthora cactorum</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 4-5 L/ha in a minimum of 100 L water/hectare.	Use a maximum of 5 foliar applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  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.

Pre-Harvest Interval (PHI) = 1 day

CROP	DISEASE	RATES	RECOMMENDATIONS
Outdoor ornamentals, including bedding plants, potted plants and cut flowers	Phytophthora root rot and foliar blight ( <i>Phytophthora</i> spp., except <i>P. ramorum</i> , <i>P. cryptogea</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 1.3 L/100 L water.	Use a maximum of 9 foliar and/or drench applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression.  For foliar applications, apply to thoroughly wet foliage.  For drench applications,

			<p>apply 5-10 L of diluted solution/m<sup>2</sup>. Adjust volume as needed to thoroughly wet media.</p> <p>Begin applications when conditions are favourable for disease and continue on a 14-28 day interval. Use the shorter application interval when disease pressure is moderate to high.</p>
	Downy mildew ( <i>Peronospora lamii</i> )	Apply WINFIELD PHOSPHITE EXTRA Fungicide at a rate of 1.3 L/100 L water.	<p>Use a maximum of 9 foliar applications of WINFIELD PHOSPHITE EXTRA Fungicide per growing season in a preventive program for disease suppression. Apply to thoroughly wet foliage.</p> <p>Begin applications when conditions are favourable for disease and continue on a 7-day interval.</p>

Pre-Harvest Interval (PHI) = 1 day

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