

2019-12-03  
2019-5198



Group	28	Fungicide
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## TATTOO<sup>®</sup> Fungicide

**Aqueous Solution**

**For Control of Late Blight in Potato and Tomato  
and Downy Mildew in Lettuce and Cucurbits**

**COMMERCIAL**

**DANGER - CORROSIVE TO EYES  
POTENTIAL SKIN SENSITIZER**

**REGISTRATION NUMBER: 29554 PEST CONTROL PRODUCTS ACT**

**ACTIVE INGREDIENT:**

Propamocarb Hydrochloride..... 722 g/L



**NET CONTENTS: 1 L - bulk**

Product Information: 1 888 283 6847  
[www.cropscience.bayer.ca](http://www.cropscience.bayer.ca)

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd S.E.  
Calgary, Alberta T2C 3G3

**READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**In case of spills, poisoning or fire, telephone emergency response number 1-800-334-7577 (24 hours a day).**

**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.

**DIRECTIONS FOR USE:** See the printed booklet provided with this container.

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS.** Potential skin sensitizer. Corrosive. Causes eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry. If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

**PROTECTIVE CLOTHING AND EQUIPMENT:** Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.

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

**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.

**TOXICOLOGICAL INFORMATION:** Probable mucosal damage may contraindicate the use of gastric lavage.

**ENVIRONMENTAL PRECAUTIONS:** This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. 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.

**STORAGE:** To prevent contamination store this product away from food or feed. STORE IN A COOL PLACE, NOT BELOW 0°C OR ABOVE 30°C. If stored for 1 year or longer, shake well before using. Store the tightly closed container away from feeds, seeds, fertiliser, plants and foodstuffs. Do not use or store in or around the home. Keep in original container during storage.

#### **DISPOSAL:**

##### **Recyclable Container 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.

**Returnable Container:** Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**Returnable-Refillable Container:** For disposal, this empty 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 use this container for any other purpose.

##### **For non-recyclable Container**

1. Thoroughly rinse the emptied plastic bag, or triple-rinse the empty container, and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the plastic bag/container prior to its disposal.
3. Make the empty plastic bag/container unsuitable for further use.
4. Dispose of the plastic bag/container in accordance with provincial requirements.

**Disposal of Unused, Unwanted Product:** 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 cleanup of spills.

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## GENERAL INFORMATION

### SECTION 1: 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.

### SECTION 2: THE PRODUCT

TATTOO Fungicide is a fungicide which utilises the systemic action of propamocarb hydrochloride to give protection against late blight of potatoes and tomatoes, and downy mildew in lettuce and cucurbits.

## SAFETY AND HANDLING

### SECTION 3: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS.** Potential skin sensitizer. Corrosive. Causes eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry. If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

#### **PROTECTIVE CLOTHING AND EQUIPMENT:**

- During ALL activities, workers must wear long pants, long-sleeved shirts and boots.
- During mixing, loading, cleanup and repair activities, workers must ALSO wear chemical resistant gloves and safety goggles or a face shield.

## **SECTION 4: FIRST AID AND TOXICOLOGICAL INFORMATION**

### **FIRST AID:**

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

If swallowed	<ul style="list-style-type: none"><li>• Call a poison control centre or doctor immediately for treatment advice.</li><li>• Do not induce vomiting unless told to do so by a poison control centre or doctor.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
If on skin or clothing	<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 centre or doctor for treatment advice.</li></ul>
If inhaled	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control centre or doctor for further treatment advice.</li></ul>
If in eyes	<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. Call a poison control centre or doctor for treatment advice.</li></ul>

### **TOXICOLOGICAL INFORMATION:**

Probable mucosal damage may contraindicate the use of gastric lavage.

## **SECTION 5: ENVIRONMENTAL PRECAUTIONS AND INFORMATION**

This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. 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.

## SECTION 6: STORAGE

- To prevent contamination store this product away from food or feed
- STORE IN A COOL PLACE, NOT BELOW 0°C OR ABOVE 30°C.
- If stored for 1 year or longer, shake well before using.
- Store the tightly closed container away from feeds, seeds, fertiliser, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep in original container during storage.

## SECTION 7: DISPOSAL

### **Recyclable Container 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.

**Returnable Container:** Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**Returnable-Refillable Container:** For disposal, this empty 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 use this container for any other purpose.

### **For non-recyclable Container**

1. Thoroughly rinse the emptied plastic bag, or triple-rinse the empty container, and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the plastic bag/container prior to its disposal.
3. Make the empty plastic bag/container unsuitable for further use.
4. Dispose of the plastic bag/container in accordance with provincial requirements.

**Disposal of Unused, Unwanted Product:** 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 cleanup of spills.

**Disposal of Unused Spray Solution:** If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the field just sprayed, **NOT ON THE CROP**, away from water supplies, ditches, irrigation canals and desirable vegetation.

## DIRECTIONS FOR USE

<b>SECTION 8: CROPS, DISEASE, RATE, TIMING</b>
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### Potatoes

DISEASE	RATE	RECOMMENDATIONS
Late blight ( <i>Phytophthora infestans</i> )	1.5 L/ha	Use TATTOO Fungicide as a foliar spray in a preventative program for control of late blight in potatoes. Begin applications when conditions are favourable for disease, but before infection.
Late blight ( <i>Phytophthora infestans</i> ) and Early blight ( <i>Alternaria solani</i> )	Apply TATTOO Fungicide at 1.5 L/ha + Tank-mix partners at labelled rates*.	Apply on a 7-10 day interval. The longer spray interval may be used early in the season before canopy closure when disease pressure may be light. After canopy closure and under high disease pressures, shorten the spray interval.  <b>Apply by ground or air.</b>
<ul style="list-style-type: none"> <li>• Do not apply more than 7.5 Liters of TATTOO Fungicide per hectare in a single growing season.</li> <li>• For ground application, apply in 200 - 300 Liters of water per hectare to ensure uniform coverage.</li> <li>• For aerial application, apply TATTOO Fungicide alone or in tank mixes (ONLY with the recommended tank mix partners that are registered for aerial use) in no less than 45 Liters of water per hectare to ensure uniform coverage.</li> <li>• Do not apply within 14 days before harvest.</li> <li>• * Bravo 500, Bravo 720, Bravo Ultrex, Bravo Ultrex 90 SDG, Bravo Zn, Echo 90DF, Echo 720, Dithane DG 75, Dithane DG Rainshield NT, Dithane F-45, Dithane M-45 80% WP, Dithane WSP 80% WP, Manzate DF, Manzate Pro-Stick, Penncozeb 75DF or Penncozeb 80WP.</li> <li>• <b>Read and follow the use directions on the tank-mix partner labels and follow the most stringent label precautions and restrictions.</b></li> </ul>		

## Tomatoes

DISEASE	RATE	RECOMENDATIONS
Late blight ( <i>Phytophthora infestans</i> )	1.5 L/ha	Use TATTOO Fungicide as a foliar spray in a preventative program for control of late blight in tomatoes. Begin applications when conditions are favourable for disease, but before infection.
Late blight ( <i>Phytophthora infestans</i> ) and Early blight ( <i>Alternaria solani</i> )	Apply TATTOO Fungicide at 1.5 L/ha + Tank-mix partner at labelled rates*	Apply on a 7-10 day interval. The longer spray interval may be used early in the season before canopy closure when disease pressure may be light. After canopy closure and under high disease pressures, shorten the spray interval.
<ul style="list-style-type: none"> <li>• Do not apply more than 9 Litres of TATTOO Fungicide per hectare in a single growing season.</li> <li>• Apply only with ground spray equipment in 200 - 300 Liters of water per hectare to ensure uniform coverage.</li> <li>• Do not apply within 5 days of harvest for tomatoes.</li> <li>• * Bravo 500, Bravo 720, Bravo Ultrex, Bravo Ultrex 90 SDG, Echo 90DF, Echo 720, Dithane DG 75, Dithane DG Rainshield NT, Dithane F-45, Dithane M-45 80% WP, Dithane WSP 80% WP, Manzate DF, Manzate Pro-Stick, Penncozeb 75DF or Penncozeb 80WP.</li> <li>• <b>Read and follow the use directions on the tank-mix partner labels and follow the most stringent label precautions and restrictions.</b></li> </ul>		

**Crop Group 9: Cucurbits (Citron melon, Muskmelon, Water Melon, Summer and Winter, Squash, Pumpkin, Cucumber, Chayote (fruit), Chinese waxgourd, Gherkin, Edible Gourd, Momordica ssp.)**

DISEASE	RATE	RECOMMENDATIONS
Downy mildew ( <i>Pseudoperonospora cubensis</i> )	1.0-1.4 L/ha TATTOO FUNGICIDE + 1.35 – 2 L/ha Bravo 500 F*	Use TATTOO Fungicide as a foliar spray in a preventive program. Begin applications when conditions are favourable for disease, but before infection. Continue on 7-14 day intervals until the threat of disease is over. Use the high rate and shorter application interval under high disease pressure and when conditions of rapid disease development exist. When applying TATTOO Fungicide at intervals longer than 7 days, alternate with an application of a contact fungicide midway between TATTOO Fungicide applications. Under severe disease conditions, shorten the spray interval.  Check with your local Extension Specialist if you are unsure about whether these conditions exist.
<ul style="list-style-type: none"> <li>• Do not apply more than 7 Litres of TATTOO Fungicide per hectare in a single growing season.</li> <li>• Apply as ground application only, mixed in 300 - 600 litres of water per hectare</li> <li>• Do not apply within 2 days of harvest for cucurbits.</li> <li>• * or Bravo 720 at 0.94-1.4 L/ha.</li> <li>• <b>Read and follow the use directions on the tank-mix partner labels and follow the most stringent label precautions and restrictions.</b></li> </ul>		

**Lettuce (Head and Leaf), Spinach**

DISEASE	RATE	RECOMMENDATIONS
Downy mildew ( <i>Bremia lactucae</i> ) on lettuce and ( <i>Peronospora farinosa</i> f.sp. <i>spinaciae</i> ) on spinach	2.3 L/ha	Make foliar applications when conditions first become favourable for disease development (for example, high moisture and moderate temperature), but before infection. Continue applications on a 7-10 day interval until threat of disease is over, up to 4 applications. Apply as ground application only, mixed in 200 - 400 litres of water per hectare  Under severe disease conditions, shorten the spray interval.  Check with your local Cooperative Extension Service if you are unsure about whether these conditions exist.

<p><b>Spinach Only:</b> Pythium root rot (<i>Pythium</i> spp.)</p>	<p>1.5 mL product / L of water, at 650-1500 L of solution per hectare</p>	<p>Soil Applications:  Apply TATTOO Fungicide by directed nozzles to the lower portion of the plants and surrounding soil. Apply as soil application only, mixed in 650-1500 litres of water per hectare. Make the first application when conditions become favourable and continue applications on a 21-40 day interval until threat of disease is over up to 9.2 L/ha.</p>
<ul style="list-style-type: none"> <li>• Do not apply more than 9.2 Litres of TATTOO Fungicide per hectare in a single growing season.</li> <li>• Do not apply within 2 days of harvest for lettuce and spinach.</li> </ul>		

## SECTION 9: APPLICATION INSTRUCTIONS and USE LIMITATIONS

### 9.1 GENERAL REMINDERS FOR SUCCESSFUL OPERATION

- **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.
- To avoid spray drift, do not apply when winds exceed 16 kph.
- 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.
- **DO NOT** apply this product through any type of irrigation system.
- As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.
- **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- **DO NOT** allow spray mixture to remain in the tank overnight, or for long periods during the day without agitation.
- Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

- Do not apply when wind speed causes non-uniform distribution and/or favors drift beyond the area intended for treatment.
- Aerial Application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.
- Apply TATTOO Fungicide only by rotary or fixed-wing aircraft which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.
- Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.
- Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

#### Use Precautions for Aerial Applications:

- Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

#### Operator Precautions for Aerial Applications:

- Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
- It is desirable that the pilot has communication capabilities at each treatment site at the time of application.
- The field crew and the mixer/loaders must wear chemical resistant gloves, safety goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

#### Product Specific Precautions for Aerial Applications:

- Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-888-238-6847 or obtain technical advice from the distributor or your provincial agricultural representative.
- For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank-mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank-mix partners.

#### **CONDITIONS:**

The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond the control of Bayer CropScience Inc. it is impossible for Bayer CropScience Inc. to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

#### **9.2 ROTATIONAL CROPS**

- Crops on this label may be rotated anytime, following the last application of TATTOO Fungicide.
- Do not rotate to root and leafy vegetables for 30 days following the last application of TATTOO Fungicide.
- Do not rotate to winter wheat and all other crops for 120 days following the last application of TATTOO Fungicide.

<b>SECTION 10: PRE-HARVEST, PRE-GRAZING/FEEDING AND RE-ENTRY INTERVALS</b>
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Potatoes: 14 days  
Cucurbits: 2 days  
Tomato: 5 days  
Lettuce: 2 days

- DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- If tank mixing, always respect the maximum intervals stated on the labels of all the tank mix products.

- When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

## **SECTION 11: MIXING INSTRUCTIONS**

Follow the recommendations of your local Extension Specialist for tank-mixing with wettable powders, emulsifiable concentrates, suspension concentrates or flowables.

1. Fill the spray tank  $\frac{1}{2}$  full with clean water and begin agitation or bypass.
2. Add the appropriate rate of TATTOO Fungicide and the tank-mix partner, if desired, as specified under Section 8, directly to the spray tank.
3. Fill the spray tank with balance of water required.
4. Maintain sufficient agitation during both mixing and application of TATTOO Fungicide.

**Note: Undiluted TATTOO Fungicide is corrosive to all metals except stainless steel. Rinse all metal application equipment thoroughly after use.**

## **SECTION 12: RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that TATTOO Fungicide contains a Group 28 fungicide. Any fungal population may contain individuals naturally resistant to TATTOO Fungicide and other Group 28 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/bactericide resistance:

- Where possible, rotate the use of TATTOO Fungicide or other Group 28 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 Bayer CropScience if reduced sensitivity of the pathogen to TATTOO Fungicide 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 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 pathogens.
- For further information and to report suspected resistance, contact Bayer CropScience representatives at 1-888-283-6847 or at [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

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