



MIRAVIS® Era Co-Pack is a combination of separately registered products comprised of MIRAVIS Era A Fungicide, ADEPIDYN® Technology and MIRAVIS Era B Fungicide.

ADEPIDYN®, MIRAVIS® and the Syngenta wordmark are trademarks of a Syngenta Group Company.

GROUP	7	FUNGICIDE
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MIRAVIS® Era A
ADEPIDYN® Technology

FUNGICIDE

SUSPENSION CONCENTRATE

COMMERCIAL - AGRICULTURAL

For broad-spectrum disease control or suppression on wheat and barley.

ACTIVE INGREDIENT:

Pydiflumetofen 200 g/L

Contains 1,2-benzisothiazolin-3-one at 0.035% OR 1,2-benzisothiazolin-3-one at 0.035% and 2-bromo-2-nitropropane-1,3-diol at 0.03% OR 1,2-benzisothiazolin-3-one at 0.0058%, 2-bromo-2-nitropropane-1,3-diol at 0.033%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00078% and 2-methyl-4-isothiazolin-3-one at 0.00026% OR 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0010% and 2-methyl-4-isothiazolin-3-one at 0.00033% as preservatives.

WARNING, CONTAINS THE ALLERGEN SULFITES

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

REGISTRATION NO: **34323**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **500 mL - 1000 L**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

Label

1.0 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.

2.0 FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. 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 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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Keep unused product in original container tightly closed, locked up and away from food and feed.

Restricted Entry Interval (REI): DO NOT enter or allow worker entry into treated areas during a restricted entry interval (REI) of 12 hours.

Apply only to agricultural crops when the potential for drift to areas of human habitation or 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.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear a long-sleeved shirt and long pants, chemical resistant gloves, socks and shoes when mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

All users should wash hands before eating, drinking, chewing gum, using tobacco, using the toilet or using a handheld device.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

Pydiflumetofen is persistent and may carryover. It is recommended that this product not be used in areas treated with any products containing pydiflumetofen during the previous season.

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of MIRAVIS® Era A in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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.

7.0 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals. To prevent contamination store this product away from food or feed. If product freezes, allow to thaw and circulate prior to use.

8.0 DISPOSAL

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.

For Returnable Containers

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For Refillable Containers

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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.

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***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

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Pamphlet

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9.0 PRODUCT INFORMATION

MIRAVIS Era A is a broad spectrum, preventative fungicide recommended for the control or suppression of many important plant diseases, formulated as a suspension concentrate (SC). Read all label directions before use. All applications must be made according to the use directions that follow.

9.1 General Use Precautions**DO NOT USE IN GREENHOUSES (ALONE OR IN TANK MIXTURES)**

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Make no more than one application of MIRAVIS Era A per season.

Not all members of the crop groups have been tested for phytotoxicity and should be used at the discretion of the user. It is recommended to test MIRAVIS Era A on a small portion of the crop to ensure that a phytotoxic response will not occur.

10.0 DIRECTIONS FOR USE

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.

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 Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

10.1 Ground Application

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 and Biological Engineers (ASABE S572.1) FINE classification. Boom height must be 60 cm or less above the crop or ground.

10.1.1 Product Specific Precautions

Follow recommendations provided by local disease monitoring services or provincial spray calendars regarding the appropriate application timing for protectant fungicides in your area. Cultural practices such as canopy management and removal of overwintered plant debris should be integrated with the use of fungicides to reduce disease incidence. Use the higher rate, and the shorter application interval under conditions of heavy infection pressure, on highly susceptible varieties, or when environmental conditions are favourable for disease development.

MIRAVIS Era A treatments should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, plant residue management, crop rotation, and proper timing and placement of fertilizer and irrigation. Fungicide applications should begin prior to disease infection and continue throughout the season following a

resistance management strategy (see **Resistance Management Recommendations**).

10.1.2 Mixing Instructions

1. Ensure that the sprayer interior is clean, then fill the spray tank with $\frac{1}{2}$ the required amount of water and engage gentle agitation. Good agitation is indicated by a rippling or rolling action on the surface of the water.
2. Add any WG or DF formulation mix partners and agitate to ensure complete mixing.
3. Add MIRAVIS Era A and any additional SE or SC formulation mix partners and agitate to ensure complete mixing.
4. Add any EC formulation mix partners and agitate to ensure complete mixing.
5. Fill the tank to $\frac{3}{4}$ the required amount of water.
6. Add any solution (SN or SL) formulation mix partners and agitate to ensure complete mixing.
7. Add adjuvant, where required, as directed in crop directions for use.
8. Finish filling the sprayer with water, maintaining good agitation.
9. After any break in spraying operations, agitate thoroughly before spraying again.
10. Spray the pesticide suspension the same day as mixing.
11. Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

When using chemical handling equipment to fill the sprayer, the following additional recommendations apply:

- WG and DF formulations are preferentially batch mixed.
- SC, SN, and SL formulations may be inducted or batch mixed.
- EC formulations are preferentially batch mixed.

10.1.3 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 100 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Sprayer Agitation: Use a jet agitator or liquid sparge tube which recirculates 7-10% of the tank per minute. **DO NOT** use an air sparger.
3. Pump: Screens should be used to protect the pump and prevent clogging. Use 16 mesh or *coarser* screens on the suction side of the pump. **DO NOT** place a screen in the recirculation line. Use 50 mesh or *coarser* screens between the pump and boom unless directed otherwise by the sprayer manufacturer.
4. Spray Nozzles: 80° or 110° drift reducing flat fan (e.g. those with a pre-orifice or turbulence chamber) or air induction nozzles are recommended. Use 50 mesh nozzle screens or as recommended by the nozzle manufacturer. **DO NOT** use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
5. Pressure: As recommended by the nozzle manufacturer to achieve no smaller than ASABE fine sized droplets.
6. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly fine particles (mist). **DO NOT** apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. **DO NOT** spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

10.1.4 Equipment Clean-Up

Before Spraying:

- Prior to using MIRAVIS Era A, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow MIRAVIS Era A residue to dry within the spray tank.
- When tank mixes are permitted, consult the tank-mix partner label for additional clean-up instructions.
- The following recommendations are provided:
 1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean the sprayer near desirable vegetation, wells or other water sources.
 2. Remove all nozzles and screens and wash separately.
 3. Dispose of all rinsate in accordance with provincial regulations.

10.2 Buffer Zones

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat:
		Less than 1 m	Greater than 1 m	
Field sprayer	Wheat, barley	2	0	1

When tank mixes are permitted, 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 (ASABE) category indicated on the labels for those tank mix partners.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

10.3 Rotational Crop Restrictions

Rotational Crops	Planting Time From Last Application
Root Vegetable (CSG 1A) Tuberous and Corm Vegetables Radish tops Garden beet tops Bulb Vegetables Leafy Greens Brassica Leafy Greens Brassica Head and Stem Vegetable Group (CG 5-13) Legume Vegetables (CG 6) Fruiting Vegetables Cucurbit Vegetables Low Growing Berry Subgroup (CSG 13-07G, except cranberry) Cereals (wheat, barley, oats, rye, triticale) Corn (field, sweet, pop, specialty and seed) Forage, Fodder and Straw of wheat, barley, oats, rye and triticale Rapeseeds (revised) (CSG 20-A) Sunflowers (revised) (CSG 20-B) Leaf Petioles Vegetables (CSG 22B) Peanut	0 days
All other crops Intended for Food and Feed	30 days

11.0 CROP USE DIRECTIONS

11.1 Wheat

MIRAVIS Era A TANK MIXED WITH MIRAVIS Era B	
Wheat (spring, winter and durum)	
Diseases Suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Diseases Controlled	Leaf Rust (<i>Puccinia recondita</i>) Septoria leaf blotch (<i>Septoria tritici</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>)
Use Rate	0.625 L/ha MIRAVIS Era A + 0.5 L/ha of MIRAVIS Era B
Application timing/instructions	<p>For suppression of Fusarium head blight in wheat, apply within the range of at least 75% of heads on the main stem fully emerged to when 50% of the heads on the main stem are flowering, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Application at the timing for Fusarium head blight will control leaf rust that occurs later in the season. Application at this timing is not intended to provide curative control of established leaf rust.</p> <p>Application may only be made using ground spray equipment. DO NOT apply by air.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha is recommended for ground application.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>One application per year.</p> <p>Follow all precautions, restrictions, and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per season	0.625 L/ha
Pre-Harvest Interval	<p>Do not apply after BBCH 65 (50% of main heads in flower).</p> <p>For harvest of grain, forage and hay, one application with a minimum PHI of 30 days is required.</p>

11.2 Barley

MIRAVIS ERA A TANK MIXED WITH MIRAVIS ERA B	
Crop	Barley
Diseases Suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Diseases Controlled	Scald (<i>Rhynchosporium secalis</i>) Spot blotch (<i>Cochliobolus sativus</i>) Net blotch (<i>Pyrenophora teres</i>)
Use Rate	0.625 L/ha MIRAVIS Era A + 0.5 L/ha of MIRAVIS Era B
Application timing/instructions	<p>For suppression of Fusarium head blight in barley, apply within the range of at least 70% of heads on the main stem fully emerged to 3 days after full head emergence, using sprayer nozzles configured to provide excellent coverage to the barley head.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Application at the timing for Fusarium head blight will control leaf diseases that occur later in the season. Application at this timing is not intended to provide curative control of established leaf diseases.</p> <p>Application may only be made using ground spray equipment. DO NOT apply by air.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha is recommended.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>One application per year.</p> <p>Follow all precautions, restrictions, and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per season	0.625 L/ha
Pre-Harvest Interval	<p>Do not apply later than 3 days after full emergence of main stem heads.</p> <p>For harvest of hay, one application with a minimum PHI of 30 days is required.</p>

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, MIRAVIS Era A contains a Group 7 fungicide in the succinyl dehydrogenase inhibitor (SDHI) class. Any fungal population may contain individuals naturally resistant to pydiflumetofen and other Group 7 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 pydiflumetofen or other Group 7 fungicides with different groups that control the same pathogens.

Apply a maximum of 2 Group 7 fungicide containing foliar sprays per year unless otherwise stated in the Directions for Use section.

DO NOT apply at rates lower than specified on the label.

Use tank mixtures with fungicides from a different group that are 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 sign of resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to MIRAVIS Era A 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, to which pathogen resistance has not developed.

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 or to report suspected resistance, Contact Company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

Application Limitations and Pre-harvest Intervals

Crop	Maximum Product Rate/ha/application (L/ha)	Minimum Re-treatment Interval (days)	Maximum total (L/ha/Season)	Pre-Harvest Interval (PHI) (days)
Wheat, Barley	0.625	NA	0.625	30

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GROUP	3	FUNGICIDE
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MIRAVIS® Era B

COMMERCIAL - AGRICULTURAL

EMULSIFIABLE CONCENTRATE

For Control or Suppression of Listed Diseases in Wheat and Barley.

ACTIVE INGREDIENT:

Prothioconazole 250 g/L

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CAUTION – POISON

**EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

REGISTRATION NUMBER: **34168**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L – BULK**

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IN CASE OF POISONING, contact a doctor or a poison control centre **IMMEDIATELY**. 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. Do not induce vomiting unless told to do so by a poison control centre or doctor. Have person sip a glass of water if able to swallow. 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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

May irritate eyes. Avoid contact with eyes. May irritate the skin. Avoid contact with skin. Potential skin sensitizer. Harmful if swallowed. Avoid contact with skin, eyes, and clothing.

Restricted Entry Intervals (REI): DO NOT enter or allow worker entry into treated areas during a restricted entry interval (REI) of 24 hours

Apply only when the potential for drift to areas of human habitation or 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.

When tankmixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tankmix. Follow the more stringent label precautionary

measures for mixing, loading and applying stated on both product labels.

DO NOT apply by air.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing and loading. Gloves are not required in a closed cab and/or cockpit.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Wear freshly laundered clothes daily. Do not wear contaminated shoes.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using product, do not eat, drink or use tobacco (including smoking).

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

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.

7.0 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated secure area away from other pesticides, feed, foodstuffs, beverages and tobacco, and out of the

reach of children, unauthorized persons and animals. To prevent contamination, store this product away from seed, food, feed or fertilizer.

Keep away from fire or open flame, or other sources of heat.

Do not store at temperatures below freezing.

If stored for 1 year or longer shake well before using.

Do not use or store in or around the home.

8.0 DISPOSAL

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.

For Recyclable Containers:

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.
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***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

GROUP	3	FUNGICIDE
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MIRAVIS® ERA B

COMMERCIAL - AGRICULTURAL

EMULSIFIABLE CONCENTRATE

For Control or Suppression of Listed Diseases in Wheat and Barley.

ACTIVE INGREDIENT:

Prothioconazole 250 g/L

READ THE LABEL AND PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

**CAUTION – POISON**

EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

REGISTRATION NUMBER: **34168**
PEST CONTROL PRODUCTS ACT

Syngenta Canada Inc.

140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

Pamphlet

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1.0 NOTICE TO USER

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reach of children, unauthorized persons and animals. To prevent contamination, store this product away from seed, food, feed or fertilizer.

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CALL 1-800-327-8633 (FASTMED)***

9.0 PRODUCT INFORMATION

MIRAVIS® Era B is a broad-spectrum systemic fungicide for the control or suppression of listed diseases on wheat and barley.

10.0 DIRECTIONS FOR USE

10.1 General Information

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.

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 Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tankmixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

10.2 Ground Application

10.2.1 General Precautions

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 and Biological Engineers (ASABE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

10.2.2 Mixing Instructions

MIRAVIS Era B must be applied with properly calibrated, clean equipment. Prior to adding MIRAVIS Era B to the spray tank, ensure that the spray tank is thoroughly clean.

MIRAVIS Era B applied alone:

- Add one-half of the required amount of water to the spray or mixing tank and start agitation.
- Add the required quantity of MIRAVIS Era B to the water and complete filling with water to the required total volume.

- Maintain agitation throughout mixing and spraying.

10.2.3 Spraying Instructions

1. Use well-maintained and calibrated conventional spray equipment, which provides adequate and uniform coverage.
2. Apply MIRAVIS Era B in a minimum of 100 L water/ha, unless otherwise specified in DIRECTIONS FOR USE.
3. Spray screens should be no finer than 50 mesh.
4. Ensure that the by-pass line discharges at the bottom of the tank to minimize foaming.
5. Maintain pressure at no less than 275 kPa to ensure good foliage penetration and coverage.
6. Provincial spray buffer zones that are greater than the spray buffer zones indicated in the DIRECTIONS FOR USE should be respected.
7. If spray mixture remains in the tank overnight, or for long periods during the day, agitate thoroughly prior to application.

10.2.4 Equipment Clean-Up

Before Spraying:

Prior to using MIRAVIS Era B, ensure that the chemical handling equipment, lines and filter are thoroughly cleaned.

After Spraying:

Thoroughly clean application equipment immediately after spraying. **DO NOT** let MIRAVIS Era B residue to dry within application equipment.

When using tank mixes, consult the tankmix partner label for additional clean-up instructions. The following recommendations are provided:

1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean application equipment near desirable vegetation, wells or other water sources.
2. Remove all nozzles and screens and wash separately.
3. Dispose of all rinsate in accordance with provincial regulations.

10.3 Spray Buffer Zones

A spray buffer zone is **NOT** required for: uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:			
		Aquatic Habitat of Depths:			Terrestrial Habitat
		Less than 1 m	1-3 m	Greater than 3 m	
Field sprayer	Wheat, Barley	2	1	0	0

The spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pesticide portion of the Canada.ca web site.

When tank mixes are permitted, consult the labels of the tankmix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASABE) category indicated on the labels for those tank mix partners.

10.4 Rotational Crop Restrictions

Treated areas may be replanted with any crop specified on this label as soon as practical after the last application. For crops not listed on this label, do not plant back within 30 days of last application.

10.5 Pre-Harvest Interval

CROP	PHI (days)
Wheat (spring, durum, and winter) Barley	30

11.0 CROP USE DIRECTIONS

11.1 Cereals (Wheat)

CROP	Wheat (spring, durum and winter)
DISEASES CONTROLLED	Glume blotch (<i>Stagonosora nodorum</i>)
DISEASES SUPPRESSED	Fusarium Head Blight (<i>Fusarium</i> spp.) or Scab
RATE	0.6 – 0.8 L/ha (150 – 200 g a.i./ha)
TIMING	<p>Fusarium head blight outbreaks in wheat occur when the weather is warm and wet at head emergence and flowering. The application of MIRAVIS Era B for protection against Fusarium head blight (scab) should be considered when these environmental conditions are forecasted for this stage of wheat development.</p> <p>Timing of application is critical: For optimum suppression of Fusarium head blight or control of Glume blotch, apply MIRAVIS Era B within the time period from when at least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower.</p> <p>Application of the 0.8 L/ha rate is suggested in situations where disease pressure is expected to be high. Such situations may occur when prolonged periods of warm, wet weather are forecast during anthesis, when wheat is grown in a crop rotation that has contained corn or when more susceptible cultivars or wheat types (i.e. durum) are grown.</p> <p>Use of the 0.8 L/ha rate will typically provide highest levels of mycotoxin reduction.</p> <p>Spray Coverage is essential for optimum efficacy: Spray equipment must be set up to provide good coverage to wheat heads. To achieve thorough wheat head coverage using ground application equipment, it is recommended to use forward and backward mounted nozzles or nozzles that have a two-directional spray. Nozzles should be operated within the spray pressure recommendations suggested by the manufacturer.</p>
DISEASES CONTROLLED	Speckled Leaf Blotch (<i>Septoria tritici</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>) Leaf Rust (<i>Puccinia recondita</i>)
RATE	0.6 L/ha (150 g a.i./ha)
TIMING	Apply MIRAVIS Era B as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems. Wheat fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.
NOTES	A maximum of 1 application of MIRAVIS Era B may be applied per wheat crop per year. Do not apply within 30 days of harvest. Application may be made by ground spray equipment only.

11.2 Cereals (Barley)

CROP	Barley
DISEASES CONTROLLED	Net Blotch (<i>Pyrenophora teres</i>) Scald (<i>Rhynchosporium secalis</i>) Spot Blotch (<i>Cochliobolus sativus</i>)
RATE	0.4 – 0.6 L/ha (100 – 150 g a.i./ha)
DISEASES SUPPRESSED	Fusarium Head Blight (<i>Fusarium</i> spp.) or Scab
RATE	0.6 – 0.8 L/ha (150 – 200 g a.i./ha)
TIMING	<p>Fusarium head blight outbreaks in barley occur when the weather is warm and wet at head emergence. The application of MIRAVIS Era B for protection against Fusarium head blight (scab) should be considered when these environmental conditions are forecasted for this stage of barley development.</p> <p>Timing of application is critical: For optimum suppression of Fusarium head blight, apply MIRAVIS Era B as a preventative spray within the time period from when 70% of the barley main stem heads are fully emerged, to 3 days after full head emergence.</p> <p>Application of the 0.8 L/ha rate is suggested in situations where disease pressure is expected to be high. Such situations may occur when prolonged periods of warm, wet weather are forecast during barley ear emergence, when barley is grown in a crop rotation that has contained corn or when more susceptible cultivars are grown.</p> <p>Use of the 0.8 L/ha rate will typically provide highest levels of mycotoxin reduction.</p> <p>Spray Coverage is essential for optimum efficacy: Spray equipment must be set up to provide good coverage to barley heads. To achieve thorough barley head coverage using ground application equipment, it is recommended to use forward and backward mounted nozzles or nozzles that have a two-directional spray. Nozzles should be operated within the spray pressure recommendations suggested by the manufacturer.</p>
TIMING	Apply MIRAVIS Era B as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems. Barley fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.
NOTES	A maximum of 1 application of MIRAVIS Era B may be applied per barley crop per year. Do not apply within 30 days of harvest. Application may be made by ground spray equipment only.

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, MIRAVIS Era B contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to MIRAVIS Era B or Group 3 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:

Alternate with fungicides having a different mode of action other than Group 3 every 7 to 10 days after application of MIRAVIS Era B.

Do not apply more than the indicated maximum number of applications per year specified for each crop in the CROP USE DIRECTIONS.

Use tank mixtures with a fungicide 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 sign of resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of pathogen to MIRAVIS Era B 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 Syngenta Canada Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

MIRAVIS® is a trademark of a Syngenta Group Company.