

GROUP **3** FUNGICIDE

MIRAVIS® ACE B Fungicide

EMULSIFIABLE CONCENTRATE

FUNGICIDE

COMMERCIAL

Broad-spectrum disease control and Fusarium head blight suppression in Wheat

ACTIVE INGREDIENT:

Propiconazole250 g/L

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING



POISON
DANGER
EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

REGISTRATION NO.: **33514**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 1000 L**

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

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.

2.0 FIRST AID

IF POISONING IS SUSPECTED, 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. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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 for this product. Apply symptomatic therapy. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

4.0 PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. Severely irritating to the eye. Causes skin irritation. **DO NOT** get in eyes or on skin. Harmful if inhaled. Avoid breathing spray mist or vapours. This product may cause skin sensitization reactions in certain individuals.

DO NOT contaminate food or feed.

DO NOT allow entry into treated area for 12 hours following application (12 hr REI). See the **DIRECTIONS FOR USE** section for crop specific restricted entry intervals.

Apply to agricultural crops only when there is low risk of drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas. 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

Wear coveralls over long-sleeved shirt and long pants, chemical resistant gloves, socks and chemical resistant footwear during mixing, loading, application, clean up and repair. Wear a protective face shield when handling the concentrated product. The wearing of neoprene gloves by pilots when entering the aircraft is essential. Mechanical flagging devices must be used. DO NOT eat, drink or smoke during work; wash hands and face thoroughly before doing so. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes. After work, change clothing and wash entire body thoroughly. Wash contaminated working clothes separately from other laundry before reuse.

6.0 ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms and non-target terrestrial plants. This pesticide is toxic to fish. DO NOT spray any body of water by direct application, drift or by cleaning and rinsing spray equipment. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. DO NOT contaminate these systems through direct application, disposal of waste or cleaning of equipment.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

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.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application sites such as hedgerows and woodland.

7.0 STORAGE

To prevent contamination store this product away from food or feed.

8.0 SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact Syngenta Canada Inc. (See EMERGENCY NUMBER) for further information.

For spills and leaks - contain the liquid with dikes of inert material (soil, clay, kitty litter, etc.). Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces - sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container. Dispose of all waste, including broom, in accordance with provincial requirements.

On soil - remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste in accordance with provincial requirements. For more information on the disposal of waste and the clean-up of spills, contact the provincial regulatory agency and the manufacturer.

9.0 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:

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

10.0 PRODUCT INFORMATION

MIRAVIS® ACE B Fungicide provides leaf disease control and suppression of Fusarium head blight in wheat. MIRAVIS ACE B Fungicide will protect the crop from yield and quality losses due to disease.

Factors Affecting MIRAVIS ACE B Fungicide Performance:

MIRAVIS ACE B Fungicide should be applied as a preventative disease control measure. Established diseases are more difficult to control and may have already reduced crop vigour.

If rainfall occurs within one hour of application, reapplication is necessary.

11.0 DIRECTIONS FOR USE

11.1. 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.

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.

Airblast application:

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

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 rotor span. High humidity and low temperatures (10 - 20°C) allow for a better deposition of spray droplets.

Sprayer and Application Information:

The performance of this product depends on correct application. Follow the guidelines given below for optimal application of MIRAVIS ACE B Fungicide.

Sprayer Information:

	FIELD SPRAYER APPLICATION	AERIAL APPLICATION
Spray Volume:	minimum 200 L water/ha	40 - 50 L water/ha
Nozzle Type:	110° drift reducing flat fan or air induction	ASAE medium rated
Droplet Size:	Medium Spray (300 microns VMD)	Medium Spray (300 microns VMD)
Nozzle Angle:	90° (straight down)	90° (straight down)
Boom Height:	40 - 50 cm above the crop canopy	2 - 3 m above the crop canopy

11.2. Field Sprayer Application - Mixing and Spraying Instructions

- 1) Spray equipment should be thoroughly flushed with clean water before mixing MIRAVIS ACE B Fungicide.
- 2) Fill spray tank 1/2 full with clean water. Engage gentle agitation.
- 3) Add the required amount of MIRAVIS ACE B Fungicide and agitate thoroughly.
- 4) Continue filling the tank with water until the tank is 9/10 full and, if applicable, add the required amount of tankmix partner.
- 5) Complete filling the spray tank with water, maintaining agitation during mixing and spraying operations.
- 6) Use nozzle screens no finer than 50 mesh. Keep by-pass line on or near the bottom of the tank to minimize foaming.

11.3. Aerial Application - Mixing and Spraying Instructions

- 1) Spray equipment should be thoroughly flushed with clean water before mixing MIRAVIS ACE B Fungicide.
- 2) Fill premix tank 1/2 full with clean water. Engage gentle agitation.
- 3) Add the required amount of MIRAVIS ACE B Fungicide and agitate thoroughly.
- 4) Continue filling the tank with water until the tank is 9/10 full and, if applicable, add the required amount of tankmix partner.
- 5) Complete filling the premix tank with water.
- 6) Maintain gentle agitation during mixing.
- 7) Transfer the premix contents into the aircraft spray tank.
- 8) Maintain sufficient agitation during the mixing and spraying operation to ensure MIRAVIS ACE B Fungicide remains in suspension.
- 9) Use nozzle screens no finer than 50 mesh. Keep by-pass line on or near the bottom of the tank to minimize foaming.

Apply only by fixed-wing or rotary aircraft equipment 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 a 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.

AERIAL APPLICATION USE PRECAUTIONS:

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.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift; therefore, avoid combinations of pressure and nozzle type that will result in 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 a shelter-belt) or aquatic habitat.

AERIAL APPLICATION OPERATOR PRECAUTIONS:

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 have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the label recommendations on the ground application section. 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.

11.4. Buffer zones

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

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), 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		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Wheat		1	0	1	1	1
Aerial	Wheat	Fixed wing	1	0	3	1	20
		Rotary wing	1	0	1	1	20

*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

For tank mixes, consult the labels of 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.

PRODUCT SPECIFIC PRECAUTIONS:

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-87-SYNGENTA (1-877-964-3682) or obtain technical advice from the distributor or your provincial agricultural representative.

Fertilizer - Mixing and Spraying Instructions

If desired, small amounts of nitrogen may be applied with MIRAVIS ACE B Fungicide. The appropriate amount of urea can be dissolved in water and added to the spray tank before adding MIRAVIS ACE B Fungicide. The rate of actual nitrogen must not exceed 10 kg/ha.

CAUTION: Excessive nitrogen concentrations may injure the crop.

NOTE: DO NOT add nitrogen when tank-mixing MIRAVIS ACE B Fungicide with a herbicide.

11.5. Rotational Crop Restrictions

Please see the following table for the crop rotational restrictions:

Rotational Crops	Planting Time From Last Application of Propiconazole-containing Products
All crops with Propiconazole registered uses	0 days
All other crops Intended for Food and Feed	105 days

12.0 CROP USE DIRECTIONS

12.1. Wheat

CEREAL GROWTH STAGES*

							
3 leaves unfolded 13	Main shoot and tiller 21	Main shoot and 4 tillers 24	Leaf sheath begins to lengthen 30	Pseudo stem erection 31	1st node detectable 32	2nd node detectable 37	Flag leaf just visible 37

							
Ligule of last leaf visible 39	Boots swollen 45	Ear just visible 51	Ear 1/2 emerged 55	Ear fully emerged 59	Flowering over at base of ear 69	Flowering over kernel watery ripe 71	Grain hard 91

WHEAT	
CROP/DISEASES	WHEAT: Septoria Leaf Spot and Glume Blotch, Powdery Mildew, Leaf and Stem Rust, Tan Spot, Stripe Rust, Fusarium Head Blight*
RATE/HA	500 mL
Application	At the first sign of disease, usually at the beginning of stem elongation (BBCH 29-65). For suppression of Fusarium Head Blight apply within the range of at least 75% of heads on the main stem fully emerged (BBCH 57) to when 50% of the heads on the main stem are flowering (BBCH 65)
Specific Use Restrictions: DO NOT make more than one application of 500 mL per season. DO NOT harvest or feed forage or hay within 7 days of last application. DO NOT apply MIRAVIS ACE B Fungicide after BBCH 65 (50% of main heads in flower).	

*Suppression only

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that MIRAVIS ACE B Fungicide contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to MIRAVIS ACE B Fungicide and other 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:

Where possible, rotate the use of MIRAVIS ACE B Fungicide or other Group 3 fungicides with different groups that control the same pathogens.

Use tank mixtures with fungicide/bactericides from a different group that is effective on the target pathogen when such use is permitted.

Avoid application of more than the maximum number listed in the label and consecutive sprays of MIRAVIS ACE B Fungicide or other fungicides in the same group in a season. Use tank mixtures with fungicides from a different group when such use is permitted.

Fungicide/bactericide 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/bactericide applications.

Monitor treated fungal/bacterial populations for resistance development. Notify Syngenta Canada if reduced sensitivity of the pathogen to MIRAVIS ACE B 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 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 or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

MIRAVIS® is a trademark of a Syngenta Group Company.