

GROUP	9	12	FUNGICIDES
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ASTOUND® Fungicide

FUNGICIDE

WETTABLE GRANULES

AGRICULTURAL

Fungicide for control or suppression of listed diseases on canola.

GUARANTEE:

Cyprodinil.....37.5%
Fludioxonil.....25.0%

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

CAUTION – EYE IRRITANT

REGISTRATION NO.: **29648**
PEST CONTROL PRODUCTS ACT

Syngenta Crop Protection Canada, Inc.
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Pamphlet

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.

FIRST AID

IN CASE OF POISONING, call a physician or 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.

TOXICOLOGICAL INFORMATION

There is no specific antidote known. Treat symptomatically. If large amount has been ingested and emesis is inadequate, lavage stomach. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

PRECAUTIONS

Safety Precautions

KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes or prolonged contact with skin or clothing. Avoid inhalation of dust. Causes moderate eye irritation. Wear coveralls over a long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves during mixing and loading. Wear a long-sleeved shirt, long pants and shoes plus socks during application, clean-up and repair. Wear goggles during application. **Do not re-enter treated area within 12 hours after application.** Do not eat, drink or smoke while mixing or during application. Change and wash clothing immediately after use. Wash hands and face before eating, drinking, smoking or using the toilet. Store and wash all protective clothing separately from household laundry. Wash clothing in detergent and hot water before reuse.

Do not apply this product through any type of irrigation system.

USE ONLY ON CROPS AS LISTED ON THIS LABEL.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca.

STORE IN A DRY PLACE.

ENVIRONMENTAL PRECAUTIONS

This product is TOXIC to aquatic organisms. Observe buffer zones specified under GENERAL INFORMATION.

DO NOT apply this product directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches, and wetlands), estuaries, or marine habitats.

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

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

DECONTAMINATION AND 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.

CONTAINER DISPOSAL:

FOR DISPOSAL OF PLASTIC JUGS:

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 refillable containers:

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

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

GENERAL INFORMATION

ASTOUND® Fungicide is a broad-spectrum fungicide for the control of listed diseases.

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

Thorough coverage is necessary to provide good disease control. Applications using sufficient water volume to provide thorough and uniform coverage generally provide the most effective disease control.

Ground Application

For ground application equipment, a minimum of 200 L of water per hectare is recommended.

To avoid spray drift, do not apply when conditions favor drift beyond the target area. Avoid spray overlap, as crop injury may occur.

Equip sprayers with nozzles that provide accurate and uniform application. Calibrate sprayer before use.

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 ASAE fine classification.

Boom height must be 60 cm or less above the crop or ground.

Use a pump with capacity to maintain the correct rated pressure for the nozzles selected. Maintain sufficient agitation to keep the mixture in suspension. Use a jet agitator, liquid sparge tube, or mechanical paddle for agitation. Do not air sparge.

It is suggested that screens be used to prevent nozzles from clogging. Screens placed after the tank and before the nozzles should be 50-mesh or coarser. Check nozzle manufacturer's recommendations.

For more information on spray equipment and calibration, consult sprayer manufacturers and provincial recommendations.

Buffer zones for ground application:

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), and estuarine/marine habitats.

Method of application	Buffer zones (metres) required for the protection of aquatic habitats of depths:	
	Less than 1 m	Greater than 1 m
Field sprayer	1	1

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.

Mixing Procedures

Prepare only the amount of spray mixture that is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

1. Add ½ of the required amount of water to the mix tank.
2. With the agitator running, add the ASTOUND Fungicide to the tank.
3. Continue agitation while adding the remainder of the water.
4. Begin application of the solution after the ASTOUND Fungicide has completely dispersed into the mix water.
5. Maintain agitation until all of the mixture has been applied.

Aerial Application

Do not overspray non-target terrestrial or aquatic habitats. Do not contaminate aquatic habitats when cleaning or rinsing spray equipment or containers. Do not apply with spray droplets smaller than the ASAE medium classification. Aerial drift is increased under certain meteorological conditions. 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. Avoid application of this product when winds are gusty. Do not spray when wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat. Do not apply when wind speed is greater than 16 km/hour at flying height at the site of application. 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 in at least 45 litres of water per hectare.

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. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

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.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs,

ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Buffer zones for aerial application:

Crop	Method of application		Buffer Zones (metres) Required for the Protection of Aquatic Habitat of Depths:	
			Less than 1 m	Greater than 1 m
Canola	Aerial	Fixed and Rotary Wing	10	2

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.

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 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.

Rotational Crop Restrictions: Do not plant any other crop for a period of 30 days after harvest or crop failure unless ASTOUND Fungicide or SWITCH[®] 62.5WG Fungicide is registered for that use.

DIRECTIONS FOR USE

Crop	Diseases	Product Rate in g/ha	Application Method	Application Timing
Canola	Rot (<i>Sclerotinia sclerotiorum</i>)	775 to 975	Ground	Apply one application at 20 – 30% bloom. Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 200 L/ha is recommended. Do not apply within 35 days of harvest. Apply the higher rate under conditions of high disease pressures.
		775 to 975	Aerial	Apply one application at 20 – 30% bloom. Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 45 L/ha is recommended. Do not apply within 35 days of harvest. Apply the higher rate under conditions of high disease pressures.

ASTOUND FUNGICIDE TANK MIX WITH MATADOR® 120EC INSECTICIDE

ASTOUND Fungicide can be tank mixed with MATADOR 120EC Insecticide for foliar disease and insect control. Apply ASTOUND Fungicide at a rate of 775 to 975 g/ha in a tank mix with MATADOR 120EC Insecticide at a rate of 83 mL/ha for control of insects and diseases on canola. Refer to both the ASTOUND Fungicide and MATADOR 120EC Insecticide labels for diseases and insects controlled, specific application instructions and precautions. Pests and crops must be at the correct stage as specified on the ASTOUND Fungicide and the MATADOR 120EC Insecticide labels. DO NOT apply more than 1 application per season of this tank mix. PHI 35 days of harvest. Ground and aerial application.

Resistance Management Recommendations

For resistance management, ASTOUND Fungicide contains a Group 9 and Group 12 Fungicide. Any fungal population may contain individuals naturally resistant to ASTOUND Fungicide and other Group 9 and Group 12 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 ASTOUND Fungicide or other Group 9 and Group 12 fungicides with different groups that control the same pathogens.

Avoid application of more than the maximum number listed in the label and do not apply more than 2 consecutive sprays of ASTOUND Fungicide or other fungicides in the same groups in a season.

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 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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