

2012-2336
2012-08-17

GROUP	9	12	FUNGICIDES
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SWITCH[®] 62.5 WG Fungicide

FUNGICIDE

WETTABLE GRANULES

AGRICULTURAL

Fungicide for control or suppression of listed diseases on onions, strawberries, blueberries (highbush and lowbush), raspberries, blackberries, carrots, mustard greens, turnip greens, cabbage, Saskatoon berries, dry and succulent beans, ginseng and crop group 1B, greenhouse cucumbers, grapes, spinach, field peppers, greenhouse peppers, field tomato and outdoor ornamentals (except roses).

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.: **28189**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **794 g - 1kg**

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

Label

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. 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

There is no specific antidote known. Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes or prolonged contact with skin or clothing. Avoid inhalation of dust. May cause eye irritation. Wear a long-sleeved shirt, long pants, shoes plus socks, coveralls and chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, or Viton 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 enter or allow worker entry into treated fields during the restricted entry interval of 12 hours, except for activities for the following crops:

Crop	Restricted Entry Interval (REI)	Activity
Saskatoon berries	10 days	Hand harvesting, pruning and thinning
Greenhouse peppers, Greenhouse cucumbers	1 day	Harvesting

Spinach	3 days	Harvesting
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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.

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.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

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

To reduce runoff from treated areas into aquatic habitats avoid applications 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 buffer strip between the treated area and the edge of the water body.

STORAGE

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

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 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.
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 returnable containers:

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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)***

SWITCH[®] is a trademark of a Syngenta Group Company.

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GENERAL INFORMATION

SWITCH® 62.5WG Fungicide is a broad-spectrum fungicide for the control or suppression of listed diseases.

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

Spray Equipment

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.

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.

GENERAL USE DIRECTIONS

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) fine classification. Boom height must be 60 cm or less

above the crop or ground.

DO NOT apply by air.

DO NOT apply this product through any type of irrigation system.

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 aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, wetlands and estuarine/marine habitats).

Method of application	Crop	Buffer zones (metres) required for the protection of aquatic habitats of depths:	
		Less than 1 m	Greater than 1 m
Field sprayer	All field crops	3	1
Airblast	Grapes (early growth stage)	20	10
	Grapes (late growth stage)	10	5

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.

DO NOT allow effluent or runoff from greenhouses or mushroom house containing this product to enter lakes, streams, ponds or other waters.

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 1/2 of the required amount of water to the mix tank.
2. With the agitator running, add the SWITCH 62.5WG Fungicide to the tank.
3. Continue agitation while adding the remainder of the water.
4. Begin application of the solution after the SWITCH 62.5WG Fungicide has completely dispersed into the mix water.
5. Maintain agitation until all of the mixture has been applied.

Rotational Crop Restrictions: Do not plant any other crop for a period of 12 months after harvest or crop failure unless SWITCH 62.5WG Fungicide is registered for that use.

NOTE TO BUYER / USER

The DIRECTIONS FOR USE for this product for the use described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Registration program. Syngenta Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all liability arising, and agree to hold Syngenta Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described below.

DIRECTIONS FOR USE

Ground application only. DO NOT APPLY BY AIR.

Do not exceed 2.9 kg of product per hectare or 3 applications per year.

Apply the higher rate and shorter interval under conditions of high disease pressures.

Make no more than two (2) sequential applications of SWITCH 62.5 WG Fungicide before alternating with another registered fungicide with a different mode of action.

Crop	Diseases	Product Rate in g/ha	Application Timing
Onions: Dry bulb, green, and onions grown for seed	Control of Botrytis Leaf Blight or Blast (<i>Botrytis squamosa</i>) Suppression of Purple Blotch (<i>Alternaria porri</i>)	775 to 975	Begin applications when conditions become favourable for disease but before infection. If favourable conditions persist make additional applications on 7 to 14 day intervals. Do not apply within 7 days of harvest.
Strawberries	Control of Grey Mold (<i>Botrytis cinerea</i>)	975	Begin applications at or before bloom and continue on 7 to 10 day intervals. Pre-harvest interval is one (1) day.
Blueberries: (highbush and lowbush)	Control of Anthracnose (<i>Colletotrichum acutatum</i>), and Botrytis Fruit Rot (<i>Botrytis cinerea</i>)	775 to 975	Make the first application during early bloom. A second application may be made 7 to 10 days later. A third application can be made if conditions remain favourable for disease development. Pre-harvest interval is one (1) day.
Caneberries: Raspberries, Blackberries	Control of Botrytis Fruit Rot (<i>Botrytis cinerea</i>)	775 to 975	Make the first application during early bloom. A second application may be made 7 to 10 days later. A third application can be made if conditions remain favourable for disease development. Pre-harvest interval is one (1) day.

Crop	Diseases	Product Rate in g/ha	Application Timing
Carrots	Control of Alternaria Leaf Blight (<i>Alternaria dauci</i>)	775 to 975	The first application should be made when the disease first appears; a second application should be made 7-10 days later. One more application may be made a minimum of 7 days later if conditions remain favourable for disease development. Do not apply within 7 days of harvest. Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 200 L/ha is recommended.
Mustard Greens, Turnip Greens	Control of Powdery Mildew (<i>Erysiphe polygoni</i> , <i>E. heraclei</i>)	775 to 975	The first application should be made when disease first appears and continue on 7 to 10 day intervals. Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 200 L/ha is recommended. Do not apply within 7 days of harvest.
Cabbage	Suppression of Alternaria Leaf Blight (<i>Alternaria brassicicola</i>)	775 to 975	The first application should be made when disease first appears and continue on 7 to 10 day intervals. Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 200 L/ha is recommended. Do not apply within 7 days of harvest.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion Program. Syngenta Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Syngenta Canada Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

Crop	Diseases	Product Rate in g/ha	Application Timing
Saskatoon berries	Suppression of Entomosporium leaf spot (<i>Entomosporium mespili</i>)	775 to 975	<p>The first application should be made during early bloom. A second application may be made 7 to 10 day later. A third application can be made if conditions remain favourable for disease development.</p> <p>Use higher rate and shorter application interval under conditions that promote rapid disease development or if there is a history of high disease pressure in the field.</p> <p>Apply in sufficient water to ensure thorough coverage (187-935 L/ha).</p> <p>Do not enter or allow worker entry into treated Saskatoon berry fields for hand-harvesting, pruning or thinning during the restricted entry interval (REI) of 10 days. For all other activities, do not enter or allow worker entry into treated areas within 12 hours after application.</p> <p>Do not apply within 1 day of harvest.</p> <p>Do not make more than 3 applications per year.</p>
Beans (dried and succulent, except cowpea) Including: chickpea (garbanzo bean), beans (<i>Lupinus</i> spp. including grain lupin, sweet lupin, white lupin, white sweet lupin), beans (<i>Phaseolus</i> spp. including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean, wax bean), broad bean (fava bean), beans (<i>Vigna</i> spp. asparagus bean, black-eyed pea)	Control of White mold (<i>Sclerotinia sclerotiorum</i>) and Grey mold (<i>Botrytis cinerea</i>)	775 - 975	<p>Begin applications prior to or at the onset of disease and repeat applications at 7 day intervals if conditions remain favourable for disease development.</p> <p>For white mold control, make the first application at 10-20% bloom. In some locations, a single application at this timing will provide adequate disease control.</p> <p>Apply the higher application rate under conditions of high disease pressure.</p> <p>Apply in sufficient water to ensure thorough coverage:</p> <p>Ground: 175 – 225 L of water /ha</p> <p>Do not apply more than 1.1 kg ai/ha of cyprodinil products and 0.73 kg ai/ha of fludioxonil containing products per crop.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.</p> <p>Do not apply within 7 days of harvest.</p>

Crop	Diseases	Product Rate in g/ha	Application Timing
Crop Group 1B: Include (garden beet, burdock, carrot, celeriac, turnip-rooted chervil, chicory, ginseng, horseradish, turnip-rooted parsley, parsnip, radish, oriental radish, rutabaga, salsify, black salsify, Spanish salsify, skirret, turnip)	Botrytis grey mold (<i>Botrytis cinerea</i>)	775 - 975	<p>Begin applications prior to or at the onset of disease and repeat applications on a 7-10 day interval if conditions remain favorable for disease development.</p> <p>Do not make more than 2 applications of SWITCH 62.5WG fungicide per season.</p> <p>DO NOT APPLY BY AIR.</p> <p>Do not allow cattle or other livestock to feed upon the leaves of root vegetables.</p> <p>DO NO enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.</p> <p>Do not apply within 7 days of harvest.</p>
Ginseng	Alternaria leaf blight (<i>Alternaria panax</i>)	975	<p>Begin applications prior to or at the onset of disease and repeat applications on a 7-10 day interval if conditions remain favorable for disease development.</p> <p>Do not make more than 2 applications of SWITCH 62.5WG fungicide per season.</p> <p>DO NOT APPLY BY AIR.</p> <p>Do not allow cattle or other livestock to feed upon the leaves of root vegetables.</p> <p>DO NO enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.</p> <p>Do not apply within 7 days of harvest.</p>

Crop	Diseases	Product Rate in g/ha	Application Timing
Greenhouse Cucumber	Suppression of Powdery mildew (<i>Podosphaera xanthii</i>)	775	<p>First application should be made when disease first appears; a second application should be made 7-10 days later. Make no more than 2 sequential applications of Switch 62.5 WG Fungicide before alternating with another registered fungicide with a different mode of action. The third application can be made at a 7-10 day interval if conditions remain favourable for disease development.</p> <p>Apply in sufficient water to ensure thorough coverage (200-3000 L/ha).</p> <p>DO NOT make more than 3 applications per crop cycle.</p> <p>Do not apply within 1 day of harvest.</p> <p>DO NOT enter or allow worker entry into the treated areas during the restricted entry interval (REI) of 24 hours.</p>
Grape	Control of botrytis bunch rot caused by <i>Botrytis cinerea</i>	775-975	<p>Begin applications at early bloom. One additional application may be made at berry touch, veraison, or preharvest. Botrytis Bunch Rot is most effectively controlled by ground application, using sufficient water volume to provide thorough coverage. Thorough coverage of bunches is essential.</p> <p>Application interval is 21 days.</p> <p>Resistance Management: After a maximum of 2 applications of SWITCH 62.5WG, alternate with another registered fungicide with a different mode of action for 2 applications.</p> <p>Do not use an adjuvant.</p> <p>Do not apply more than 0.75 kg ai/ha of cyprodinil products and 0.50 kg ai/ha fludioxonil containing products per crop.</p> <p>Do not apply within 7 days of harvest.</p> <p>Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 7 days for cane turning and girdling activities. Do not allow worker entry into treated areas during the REI of 2 days for training, thinning, hand pruning, tying and leaf pulling activities. For all other activities, do not enter or allow worker entry into treated areas during the REI of 12 hours.</p>

Crop	Diseases	Product Rate in g/ha	Application Timing
Spinach	Anthraco­nose (<i>Colletotrichum dematium</i> f. sp. <i>spinaciae</i>) and grey mold (<i>Botrytis cinerea</i>)	775-975	<p>Begin applications prior to or at the onset of disease and repeat applications on a 7-10 day interval if conditions remain favorable for disease development.</p> <p>Apply the higher application rate under conditions of high disease pressure.</p> <p>Ground Application: Apply in 175 – 225 L of water per hectare.</p> <p>DO NOT make more than 2 applications per year.</p> <p>Do not apply within 3 day of harvest.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days for harvesting.</p>
Field Pepper	Anthraco­nose (<i>Colletotrichum</i> spp.)	775-975	<p>Begin applications when conditions become favorable for disease but before infection. Apply the higher rate under conditions of high disease pressure. If favorable conditions persist, make additional application on a 7 to 10 day interval. Make no more than two sequential applications before using another registered fungicide.</p> <p>Apply in sufficient water to ensure thorough coverage (187-935 L/ha).</p> <p>DO NOT make more than 3 applications per crop cycle.</p> <p>Apply on the day of harvest (0 day PHI).</p> <p>DO NOT APPLY BY AIR.</p>
Greenhouse Pepper	Suppression of Powdery Mildew (<i>Leveillula taurica</i>)	775	<p>Begin applications when conditions become favorable for disease but before infection.</p> <p>If favorable conditions persist, make additional application on a 7 to 10 day interval. Make no more than two sequential applications before using another registered fungicide.</p> <p>Apply in sufficient water to ensure thorough coverage (475-2000 L/ha).</p> <p>DO NOT apply within 1 day of harvest.</p> <p>Do not make more than three (3) applications per crop cycle.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.</p>

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Tomatoes (field grown)	Botrytis grey mold (<i>Botrytis cinerea</i>)	775-975	Begin applications prior to or at the onset of disease and repeat applications at 7 to 10 day intervals if conditions remain favourable for disease development. Apply the higher application rate under conditions of high disease pressure. Apply in sufficient water to ensure thorough coverage: Ground: 200 L of water /ha After 2 applications of Switch 62.5WG, alternate with another fungicide with a different mode of action for 1 application. Do not make more than 3 applications per year. May be applied on the day of harvest (0 day PHI).
Outdoor ornamentals (except roses)	Suppression - Powdery mildew caused by <i>Sawadarea</i> sp. and <i>Erysiphe cichoracearum</i>	100 g product per 100 L of water. Spray to run off.	First application should be made when disease first appears; a second application should be made 7-10 days later. An additional application can be made 7-10 days after rotation with another registered fungicide from a different group if conditions remain favourable for disease development. Follow the application interval indicated on rotational product label before making the third SWITCH 62.5WG application. DO NOT make more than 3 applications per season. Ground application only. DO NOT apply by air. DO NOT enter or allow worker entry into treated areas during restricted entry interval (REI) of 12 hours.

Resistance Management Recommendations

For resistance management, SWITCH 62.5WG Fungicide contains a Group 9 and Group 12 Fungicide. Any fungal population may contain individuals naturally resistant to SWITCH 62.5WG 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 SWITCH 62.5WG 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 SWITCH 62.5WG Fungicide or other fungicides in the same group 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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