

GROUP	12	FUNGICIDE
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SCHOLAR® 230SC FUNGICIDE

COMMERCIAL

SUSPENSION

For control of post harvest diseases on listed crops.

ACTIVE INGREDIENT:

Fludioxonil.....230 g/L

Contains 1,2-benzisothiazolin-3-one at 0.019% as a preservative.

or

Contains 2-bromo-2-nitropropane-1,3-diol at 0.03% as a preservative.

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

REGISTRATION NUMBER: **29528**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to Bulk**

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, 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/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 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.

IF INHALED, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control centre or doctor for further treatment advice.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote known. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash thoroughly with soap and water after handling. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Do not use or store near heat or open flame.

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 in detergent and hot water before reuse.

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

Applicators and other handlers of the fungicide should wear chemical-resistant gloves made from any waterproof material, goggles, long-sleeve shirt, long pants, and shoes with socks, when mixing, loading and applying the product, and during clean-up and repair activities.

Wear chemical resistant gloves and coveralls when handling crops treated with SCHOLAR® 230SC Fungicide during sorting/culling-related activities.

6.0 ENVIRONMENTAL PRECAUTIONS

This product is TOXIC to fish and aquatic organisms. DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT allow fludioxonil contaminated waste water from the processing plants to enter lakes, streams, ponds or other waters.

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 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.

USE ONLY ON CROPS AS LISTED ON THIS LABEL.

DO NOT APPLY BY AIR.

7.0 STORAGE

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. To prevent contamination, store this product away from food or feed.

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.
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.

***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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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.

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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.

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

9.0 PRODUCT INFORMATION

SCHOLAR 230SC Fungicide is a protective fungicide used to aid in the control of post harvest diseases on stone, pome fruits, sweet potato and carrots and for disease control/suppression in ginseng and strawberry.

NOTE: SCHOLAR 230SC Fungicide may be degraded by exposure to direct sunlight. Treated fruit should not be stored in direct sunlight.

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

9.1 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.

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 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.

10.2 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 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.

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.

10.3 Buffer Zones

Use the following spray methods or equipment **DOES 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 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:	
		Less than 1 m	Greater than 1 m
Field sprayer	Ginseng	5	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 (ASAE) category indicated on the labels for those tank mix partners.

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 Pesticides portion of the Canada.ca web site.

11.0 CROP USE DIRECTIONS

Use SCHOLAR 230SC Fungicide as a post-harvest dip and drench immediately before the storage of fruit for the control of the post-harvest diseases listed below:

Crops	Pests	Product Rate	
		Drench Application	Dip Application
Pome Fruit : Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental), Quince	Blue Mold (<i>Penicillium expansum</i>) Gray Mold (<i>Botrytis cinerea</i>)	Mix 496 mL of product in 378 L of water, for the crop being treated. Can treat up to 90,000 kg of fruit.	Mix 496 mL of product in 378 L of water, for the crop being treated. Dip for approximately 30 seconds and allow fruit to drain. Can treat up to 90,000 kg of fruit.
Stone Fruit : Apricot, Nectarine, Peach, Plum, Plum (Chickasaw), Plum (Damson), Plum (Japanese), Plumcot, Prune (fresh) as well as other cultivars of these Note: This product is intended for use on plums meant for direct consumption; should not be used on plums intended for processing in to prunes.	Blue Mold (<i>Penicillium expansum</i>) Gray Mold (<i>Botrytis cinerea</i>) Brown Rot (<i>Monilinia fructicola</i>) Rhizopus Rot (<i>Rhizopus</i> spp.)	Mix 496 mL of product in 378 L of water, for the crop being treated. Can treat up to 90,000 kg of fruit.	Mix 496 mL of product in 378 L of water, for the crop being treated. Dip for approximately 30 seconds and allow fruit to drain. Can treat up to 90,000 kg of fruit.
Cherries: Cherry (sweet), Cherry (tart) as well as other cultivars and hybrids of these		Mix 496 mL of product in 378 L of water, for the crop being treated. Can treat up to 11,500 kg of fruit.	Mix 496 mL of product in 378 L of water, for the crop being treated. Dip for approximately 30 seconds and allow fruit to drain. Can treat up to 11,500 kg of fruit.

NOTE: Do not make more than one post-harvest application to pome or stone fruit.

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

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

Crop	Sweet Potato
Target Disease	Post-harvest rhizopus rot caused by <i>Rhizopus stolonifer</i>
Method and Timing of Applications	Apply as a post-harvest dip/drench. Dip for approximately 30 seconds and allow sweet potatoes to drain.
Use Rate	Mix 473 ml of SCHOLAR 230SC in 378 L of water, wax/emulsion, or aqueous dilution of wax/oil emulsion. After each 18,750 kg (750 bushels of cured sweet potato) is treated, drain and flush the tank. Refill with fresh dip suspension.
Number of applications	Maximum one application
Additional Use Directions	To ensure SCHOLAR 230SC solution remains in suspension use agitation. SCHOLAR 230SC may be degraded by exposure to direct sunlight. Treated sweet potatoes should not be stored in direct sunlight.
Crop	Sweet Potato
Target Disease	Post-harvest rhizopus rot caused by <i>Rhizopus stolonifer</i>
Method and Timing of Applications	Apply in-line aqueous or fruit coating spray application.
Use Rate	Mix 473 ml of SCHOLAR 230SC in 378 L of water, wax/emulsion, or aqueous dilution of wax/oil emulsion (300 ppm) for the crop being treated. Use T-jet, CDA or similar application.
Number of applications	Maximum one application
Additional Use Directions	Ensure proper coverage of the crop. To ensure SCHOLAR 230SC solution remains in suspension use agitation. SCHOLAR 230SC may be degraded by exposure to direct sunlight. Treated sweet potatoes should not be stored in direct sunlight.
Crop	Carrots
Target Disease	Post-harvest white mold/sclerotinia rot caused by <i>Sclerotinia sclerotiorum</i>
Method and Timing of Applications	Apply as a post-harvest dip or drench immediately before storage. Dip for approximately 30 seconds and allow carrots to drain.
Use Rate	Mix 496 mL of product in 378 L of water. Can treat up to 90,000 kg of carrots.
Number of applications	Maximum one application

Additional Directions	Use	<p>SCHOLAR 230SC Fungicide may be degraded by exposure to direct sunlight. Treated carrots should not be stored in direct sunlight.</p> <p>Replenish the suspension when the volume is too low or when it becomes dirty.</p> <p>The runoff and wastes from the dipping operation should not be discarded in a drainage which could enter public water systems.</p>
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Crop	Ginseng
Target Disease	<p>Root rots- <i>Rhizoctonia solani</i> (control) and <i>Cylindrocarpon destructans</i> (suppression)</p> <p>Alternaria Blight (<i>Alternaria panax</i>) and Botrytis Blight (<i>Botrytis cinerea</i>)</p>
Method and Timing of Applications	<p>Apply by broadcast ground application in sufficient water volume to obtain thorough coverage and penetration to the soil and root zone.</p> <p>Apply on a 14 to 21 day interval.</p>
Use Rate	0.6 – 1.2 L/ha (140 – 280 g ai/ha)
Number of applications	DO NOT make more than 3 applications per season.
Additional Directions	Use
	<p>DO NOT apply within 14 days of harvest.</p> <p>DO NOT exceed 3.6 L product/ha per season.</p> <p>DO NOT APPLY BY AIR.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.</p> <p>Resistance management recommendations for <i>Botrytis</i>: Apply a maximum of two consecutive applications and then alternate with a non-Group 12 containing fungicide. Apply a maximum of two Group 12 containing fungicides when two to five applications are planned, or a maximum of three applications when six or more applications are planned.</p>

Crop	Strawberry
Pest	Suppression of Black Root Rot (<i>Rhizoctonia fragariae</i>)
Rate	1.2 L/ha (6.5 mL/100 m row)
Application Method and Timing	<p>Apply as a drench application in sufficient water to ensure even coverage or as a high volume foliar application directed at the crown (1000 – 1500 L/ha). Mount the spray nozzle so the spray is directed over the plants as a 15 – 20 cm wide band. Typically, for drench application use 9.9 L of water per 100 m and irrigation afterwards to ensure adequate movement of the product to the roots.</p> <p>Apply through a drip irrigation system using a minimum of 25,000 L of water per hectare. Water volumes used will be dependent on soil type, size and layout of field, and irrigation system (no. of emitters, flow rate). The soil should have adequate moisture capacity prior to drip application. Irrigation lines should be flushed after application. It is recommended that growers run a dye test to measure how long it takes to flush lines at the most distant zone. Consult a local crop or irrigation specialist for assistance if required.</p> <p>Do not apply this product through any other type of irrigation system. Ensure that the chemigation system used has devices to prevent water source contamination from back flow. The irrigation pump and the injection pump must have an interlocking electrical system.</p> <p>To ensure uniformity of pesticide application by drip irrigation:</p> <ol style="list-style-type: none"> 1. Begin SCHOLAR 230SC Fungicide injections only when the drip irrigation system has reached full operating pressure. 2. Ensure that the drip system operates at least the minimum time required for the movement of water from the point of injection to furthest emitter. This time period can be calculated by injection of soluble dye or soap solution and recording the time of movement of this solution from point of injection to most distant emitter. 3. Extended injection time will increase SCHOLAR 230SC Fungicide application uniformity. <p>NEW PLANTINGS:</p> <p><u>First Application</u> – Apply within one week of transplanting when transplants have 3- 5 leaves unfolded (Principle Growth Stage 1 Leaf development, BBCH 15).</p> <p><u>Second Application</u> – Apply over rows during the late July to early August of the establishment year when plants are setting axillary buds (Principle Growth Stage 9 Senescence, beginning of dormancy, BBCH 91).</p> <p>ESTABLISHED PLANTINGS:</p> <p><u>First Application</u> – Apply in the spring when new leaves emerge (Principle growth stage 1 Leaf development, BBCH 10).</p> <p><u>Second Application</u> - Apply after renovation (late July – early August) (Principle Growth 9 Senescence, beginning of dormancy, BBCH 91).</p>
<p>Restrictions:</p> <ol style="list-style-type: none"> 1) DO NOT make more than two (2) applications per year over two years (maximum four (4) applications per crop). 2) The pre-harvest interval is one (1) day. 3) Do not apply more than 552 g of fludioxonil/ha in a season. 4) Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. 	

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, SCHOLAR 230SC Fungicide contains a Group 12 Fungicide. Any fungal population may contain individuals naturally resistant to SCHOLAR 230SC Fungicide and other 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 SCHOLAR 230SC Fungicide or other Group 12 fungicide with different groups that control the same pathogens.

Do not apply more than two consecutive sprays of a Group 12 containing fungicide. Group 12 containing fungicides should be limited to no more than 50% of the total applications in a spray program for the targeted pathogen.

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

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