

This label has been updated according to the re-evaluation of Difenoconazole RVD2022-05. While users are encouraged to follow this updated label immediately, the previously approved label is valid until “21/04/2024” in accordance with the phase out period set out in RVD2022-05. This previously approved label will be provided upon request by emailing hc.pmra.info-arla.sc@canada.ca. In your email please include the product name and Registration number of the label you are requesting.

GROUP	3	12	FUNGICIDES
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ACADEMY®

FUNGICIDE

SUSPENSION CONCENTRATE

COMMERCIAL - AGRICULTURAL

For control of post-harvest storage diseases in listed crops

ACTIVE INGREDIENTS:

Difenoconazole.....247 g/L
Fludioxonil.....147 g/L

Contains 2-bromo-2-nitropropane-1,3-diol at 0.021% as a preservative.

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

REGISTRATION NO: **31564**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **0.5 L – 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.

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.

Apply only when the potential for drift beyond the area to be treated 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

Wear long pants, a long sleeved shirt, shoes with socks, chemical resistant gloves and goggles

during mixing/loading, application, clean up or repair activities.

Wear chemical resistant gloves and coveralls when handling fruit treated with ACADEMY® during sorting/culling-related activities during fruit processing.

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, or using the toilet.

6.0 ENVIRONMENTAL PRECAUTIONS

This product is TOXIC to mammals 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 contaminated waste water from the processing areas to enter lakes, streams, ponds or other waters.

Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

7.0 STORAGE

STORE IN A COOL, DRY PLACE. Do not store food, beverages or tobacco products in storage area.

Do not use or store near heat or open flame. Do not use or mix with oxidizing agents.

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 cleanup of spills.

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.

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)***

ACADEMY® is a trademark of a Syngenta Group Company.

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Pamphlet

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

9.0 PRODUCT INFORMATION

ACADEMY is a protective fungicide used to aid in the control of several post-harvest diseases in post-harvest treatment facilities. All applications must be made according to the use directions that follow.

NOTE: ACADEMY Fungicide may be degraded by exposure to direct sunlight. Treated products 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.

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 Mixing Instructions

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.

10.3 ACADEMY Alone or in Tank Mixtures

1. Add $\frac{1}{2}$ - $\frac{2}{3}$ of the required amount of water to the spray or mixing tank.
2. With the agitator running, add ACADEMY to the tank. Add the tank-mix partner(s) into the tank in the same order as described below.
3. Continue agitation while adding the remainder of the water.
4. Begin application of the spray solution after ACADEMY has completely dispersed into the mix water.
5. Maintain agitation until all of the mixture has been sprayed.
6. Observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label.
7. Label dosage rate must not be exceeded, and the most restrictive label precautions and limitations must be followed.
8. This product must not be mixed with any product which prohibits such mixing.

ACADEMY treatments should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, plant residue management, crop rotation, fungicide rotation and storage sanitation.

11.0 CROP USE DIRECTIONS

NOT FOR USE IN GREENHOUSES APPLIED ALONE OR WITH ANY TANK MIX PARTNERS.

Use as a post-harvest dip, drench, flood, or spray for the control of post-harvest diseases caused by:

- Alternaria rot (side rot) and surface mold (*Alternaria alternata*)
- Bitter rot (*Colletotrichum acutatum*)

- Blue mold (*Penicillium expansum*)
- Bull's-eye rot (*Neofabraea perennans* .)
- Grey mold (*Botrytis cinerea*)
- White rot (*Botryosphaeria dothidea*)
- Sphaeropsis rot (*Sphaeropsis pyriputrescens*)

Crops	Pome fruit (Crop Group 11-09)
Diseases controlled	Alternaria rot (side rot) and surface mold (<i>Alternaria alternata</i>), bitter rot (<i>Colletotrichum acutatum</i>), blue mold (<i>Penicillium expansum</i>), bull's-eye rot (<i>Neofabraea perennans</i>), grey mold (<i>Botrytis cinerea</i>), white rot (<i>Botryosphaeria dothidea</i>),
Product use rate	Mix 462 mL of product in 378 L of water, for the crop being treated. Can treat up to 90,000 kg of fruit.
Application Method	Bin/Truck Drench Or In-Line Dip/Drench or Flooder
Remarks	<ul style="list-style-type: none"> • Ensure proper coverage of the fruit. • For re-cycling in-line drench or dip treatments, the fungicide solution may be prepared in water. • For in-line drench or dip applications, treat fruit for 15-30 seconds and allow fruit to drain. • Fruit coatings may be applied separately after aqueous fungicide treatments.
•Complete list of crops (CG 11-09): Apples, Crabapples, Loquat, Mayhaw, Pears and Quince	
Restrictions:	Do not make more than one post-harvest application to the fruit. For maximum decay control, treat fruit once before storage or once after storage, just prior to marketing. Do not make more than two post-harvest applications of fludioxonil containing products to the fruit.
Crops	Pome fruit (Crop Group 11-09)
Diseases controlled	Alternaria rot (side rot) and surface mold (<i>Alternaria alternata</i>), bitter rot (<i>Colletotrichum acutatum</i>), blue mold (<i>Penicillium expansum</i>), bull's-eye rot (<i>Neofabraea perennans</i>), grey mold (<i>Botrytis cinerea</i>) and white rot (<i>Botryosphaeria dothidea</i>)
Product use rate	Mix 462 mL of product in 378 L of water, for the crop being treated. Can treat up to 90,000 kg of fruit.
Application Method	In-line Aqueous or Fruit Coating Spray Application
Remarks	<ul style="list-style-type: none"> • Ensure proper coverage of the fruit. • Mix the fungicide solution in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated. • Use T-jet, CDA, or similar application system.
•Complete list of crops (CG 11-09): Apples, Crabapples, Loquat, Mayhaw, Pears and Quince	
Restrictions:	<ul style="list-style-type: none"> • Do not make more than one post-harvest application to the fruit. • Do not make more than two post-harvest applications of fludioxonil containing products to the fruit. • Apply either once before storage or once after storage, just prior to marketing. • Ensure the ACADEMY solution remains in suspension by using agitation.

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, ACADEMY contains Group 3 and Group 12 fungicides. Any fungal population may contain individuals naturally resistant to ACADEMY and other Group 3 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 ACADEMY or other Group 3 and 12 fungicides with different groups that control the same pathogens.

Use tank mixtures with fungicides 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 resistance development. Notify (company name) if reduced sensitivity of the pathogen to (product name) 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 and to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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