

GROUP	9	FUNGICIDE
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VANGARD® 75WG

FUNGICIDE

COMMERCIAL - AGRICULTURAL

Fungicide for control of scab on apple, blossom blight and brown rot on stone fruit and Botrytis bunch rot on grapes.

ACTIVE INGREDIENT:

Cyprodinil.....75%

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

CAUTION



POISON

REGISTRATION NO.: **25509**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1.5 kg**

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, 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 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 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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote known. Treat symptomatically. If large amount has been ingested and emesis is inadequate, lavage stomach.

4.0 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.

Do not re-enter treated apple orchards within 12 hours after application or stone fruit orchards within 72 hours after application or grape vineyards within 48 hours after treatment.

Avoid contamination of food and feed, domestic or irrigation water supplies, lakes, streams and ponds. **Do not apply within 30m of water bodies**. Spray into the targeted orchard when spraying border rows. Do not apply when the prevailing wind direction will cause drift from treated areas into lakes, ponds and other waterways.

Application is limited 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, taking into

consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

USE ONLY ON APPLE, STONE FRUIT AND GRAPES. DO NOT USE VANGARD® 75WG FUNGICIDE ON CHERRIES.

DO NOT APPLY BY AIR

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 (PPE)

When mixing, loading, during application, equipment clean-up or repair, wear water-tolerant coveralls (e.g. TYVEK) over long-sleeve shirt and long pants, boots, goggles, chemical resistant gloves and a NIOSH approved chemical cartridge pesticide respirator.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

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.

Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using product, do not eat, drink or use tobacco (including smoking).

6.0 ENVIRONMENTAL PRECAUTIONS

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

7.0 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals. 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.

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.

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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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Pamphlet

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Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

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

9.0 PRODUCT INFORMATION

VANGARD 75WG Fungicide is a systemic fungicide that is active against the pathogens *Venturia* spp. (scab) of apple, *Monilinia* spp. (blossom blight and brown rot) on stone fruit and *Botrytis cinerea* (bunch rot) of grapes. VANGARD 75WG Fungicide, a systemic fungicide, is best suited for preventative applications. The vegetative tissue is most susceptible to infection early in the growing season, when it is growing most rapidly. Since VANGARD 75WG Fungicide is systemic and will move throughout the plant, application early in the season will protect the growing tissue. **Do not use VANGARD 75WG Fungicide on cherries.**

Use of VANGARD 75WG Fungicide in early season applications will maximize its protective properties. These applications should be followed by other fungicide products, registered for the control of scab, blossom blight and botrytis bunch rot, for the remainder of the season. On stone fruit, VANGARD 75WG Fungicide should be applied in later season applications to protect against brown rot.

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

10.2.1 Spraying Instructions

- Thorough coverage is necessary to provide good disease control. For apple and stone fruit applications, use sufficient water volume to provide thorough and uniform coverage to provide the most effective disease control. Use a minimum of **1000 L/hectare** (100 gal/acre) of water.
- VANGARD 75WG Fungicide is a water dispersible granule formulation to be mixed with water and applied as a spray. Be sure sprayer is clean; if it is contaminated with any material, sprayer clogging, crop injury or reduced efficacy may result.
- To avoid spray drift, do not apply when conditions favour drift beyond the target area. Avoid spray overlap.
- Equip sprayers with nozzles that provide accurate and uniform application. Nozzles should be the same size and uniformly spaced. Always calibrate sprayer before use.
- Use a pump with capacity to:
 1. maintain a minimum of 240 kPa at nozzles
 2. provide sufficient agitation in tank to keep mixture in suspension - this requires recirculation of 10% of tank volume per minute.
 3. use a jet agitator or liquid sparge tube for agitation. Do not air sparge.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and the boom, and where required, at the nozzles. Check nozzle manufacturer's recommendations.

10.2.2 Mixing Instructions

- . Prepare no more spray mixture than is needed for the immediate operation.
- . Spray equipment must be clean before using this product.
- . Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the entire spraying operation.

DO NOT let the spray mixture stand overnight in the spray tank.

Add 1/3 of the required amount of water to the spray or mixing tank.

With the agitator running, drop the required quantity of VANGARD 75WG Fungicide into the tank. Allow the VANGARD 75WG Fungicide to disperse into the water.

If tank mixing with other products packaged in water soluble bags, add them in the tank and allow them to become completely dispersed **BEFORE** adding VANGARD 75WG Fungicide.

If tank mixing with wettable powder, wettable granules, dry flowables, liquid flowables, liquids or emulsifiable concentrates, add VANGARD 75WG Fungicide first and allow it to become completely dispersed before adding the tank mix partner.

After the products have dispersed uniformly into the mix water, continue to fill the tank with water.

Continue agitation while adding the remainder of the water and during application to maintain a uniform suspension until all of the spray solution has been applied.

Precaution: Water soluble bags must be dissolved completely, and the product must be uniformly dispersed in the mix water before any other tank mix partners are added to the spray solution. Boron, especially in the form of a micronutrient additive or as a natural component of the mix water, or summer type oils (eg. Superior Oil) may prevent water soluble bags from dissolving.

Note: If using VANGARD 75WG Fungicide in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions and limitations which appear on the tank mix product label. Never exceed the label dose rate, and always follow the most restrictive label precautions and limitations. Do not apply by air.

VANGARD 75WG Fungicide should not be mixed with any product which prohibits such mixing.

Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

11.0 CROP USE DIRECTIONS

RATE OF APPLICATION: Ground application only. Do not apply by air.

11.1 Apples

Crops	Apples
Diseases/ Timing	Scab(<i>Venturia spp</i>)
Product rate	370 g/ha (277.5 g/ha cyprodinil)
Application Timing/Instructions	Apply on a 7-10 day schedule between green tip and post-bloom.
Re-entry Interval (REI)	12 hours after application
Pre-Harvest Interval (PHI)	0 days
Notes	Pre-bloom: Do not apply more than 2 applications of VANGARD 75WG Fungicide alone. For resistance management, apply a maximum of four applications of Group 9-containing fungicide per season. Apply in a mixture with an effective tank-mix partner in regions where resistance populations have been reported. When used curatively, use only in conjunction with a reliable scab warning system.

11.2 Apricots, Nectarines, Peaches, Plums and Prunes

Crops	Apricots Nectarines Peaches	Plums Prunes
Diseases / Timing	Brown Rot Blossom Blight (<i>Monolinia spp</i>) Bloom	
Product rate	370 g/ha (277.5 g/ha cyprodinil)	
Application Timing/Instructions	Begin application at 5-10% bloom. Make a second application at full bloom.	
Re-entry Interval (REI)	Do not re-enter treated orchards within 72 hours after application. Individuals may re-enter treated areas within 72 hours for short term tasks not involving hand labour if at least 4 hours have passed since application and long pants, long-sleeved shirt and chemical-resistant gloves are worn.	
Pre-Harvest Interval (PHI)	0 days	
Notes	Do not apply VANGARD 75WG Fungicide more than 2 times for the control of blossom blight. Applications must be made prior to petal fall. For resistance management, do not include Group 9-containing fungicide in more than 50% of all treatments. Do not apply VANGARD 75WG Fungicide on cherries.	

Crops	Apricots Nectarines Peaches	Plums Prunes
Diseases / Timing	Fruit Brown Rot (<i>Monolinia spp.</i>) Late Season	
Product rate	740 g/ha (555 g/ha cyprodinil)	
Application Timing/Instructions	Apply 10-14 days prior to harvest. Make a second application 7-10 days later. Under severe disease pressure use the shorter (7 day) spray interval.	
Re-entry Interval (REI)	Do not re-enter treated orchards within 72 hours after application. Individuals may re-enter treated areas within 72 hours for short term tasks not involving hand labour if at least 4 hours have passed since application and long pants, long-sleeved shirt and chemical-resistant gloves are worn.	
Pre-Harvest Interval (PHI)	2 days	
Notes	Do not apply VANGARD 75WG Fungicide more than 2 times for the control of fruit brown rot. For resistance management, do not include Group 9-containing fungicide in more than 50% of all treatments. Do not apply VANGARD 75WG Fungicide on cherries.	

12.0 Minor Uses

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR 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.

Ground application only. Do not apply by air.

12.1 Grapes

Crop	Grapes
Disease	Botrytis bunch rot (<i>Botrytis cinerea</i>)
Product Rate	750 g/ha
Application Timing/Instructions	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.

Re-entry Interval (REI)	Do not re-enter treated areas with VANGARD 75WG Fungicide within 48 hours after application. Individuals may re-enter treated areas within 48 hours for short term tasks not involving hand labour if at least 4 hours have passed since application and long pants, long-sleeved shirt and chemical-resistant gloves are worn.
Pre-Harvest Interval (PHI)	7 days
Notes	For resistance management, apply Group 9-containing fungicide no more than once when one to three fungicide applications are planned, and no more than twice when four to six fungicide applications are planned to manage Botrytis bunch rot.

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that VANGARD 75WG Fungicide contains Group 9 fungicide. Any fungal population may contain individuals naturally resistant to VANGARD 75WG Fungicide and other Group 9 fungicides. A gradual or total loss of disease 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 are 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 VANGARD 75WG Fungicide or other Group 9 fungicides with different groups that control the same pathogens.

Avoid application of more than the maximum number listed in the label and consecutive sprays of VANGARD 75WG Fungicide or other fungicides in the same group in a season.

Use tank mixtures with fungicide 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.

Monitor treated fungal populations for resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of pathogen to Vanguard 75 WG 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 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 and to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

VANGARD® is a trademark of a Syngenta Group Company.