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GROUP 9 FUNGICIDE

VANGARD® 75WG

FUNGICIDE

AGRICULTURAL

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

GUARANTEE:

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

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 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.

TOXICOLOGICAL INFORMATION

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

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. 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. **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.** 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.

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

STORE IN A DRY PLACE.

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.

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.

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

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GENERAL 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.**

Integrated Pest Management: (IPM)

IPM has been used in the production of fruit for more than 20 years and involves a combination of chemical, biological, cultural, and other pest control methods used in association with crop scouting. Integrated management of fruit diseases involves an awareness of the inoculum potential from the previous year's infection. It also involves monitoring air temperature and the duration of leaf wetness periods to determine when sprays are needed. The inoculum of apple scab overwinters in infected leaves on the orchard floor, the inoculum of brown rot or blossom blight of stone fruit overwinters in the mummified fruit from the previous season and the inoculum of botrytis bunch rot of grapes overwinters in mummified bunches, winterkilled shoot tips and dead weeds on the vineyard floor. If feasible, at the end of the growing season, the debris should be disposed of to reduce the level of inoculum that can overwinter.

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.

VANGARD 75WG Fungicide has no adverse effect on beneficial insects, and is a non-leaching compound that is rapidly degraded in the soil.

DIRECTION FOR USE

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

Disease/Timing	Crop	Product Rate	Application Timing	Notes
Scab (<i>Venturia spp</i>) Prebloom	Apples	VANGARD 75WG Fungicide alone: 370 g/ha (150 g/acre) (2 applications max.)	Begin application at green tip, followed by a second application 7-10 days after. Tank mixture or registered products should then be applied to control scab until postbloom.	Prebloom: Do not apply more than 2 applications of VANGARD 75WG Fungicide alone. Do not apply VANGARD 75WG Fungicide more than 6 times per season.
Scab (<i>Venturia spp</i>) Prebloom Bloom Postbloom	Apples	VANGARD 75WG Fungicide in a tank mixture: 190 g/ha (75 g/acre) with: Polyram [†] DF at 3.4 kg/ha (1.4 kg/acre) OR Manzate [†] 200DF at 3.6 kg/ha (1.45 kg/acre) OR Dithane [†] DG at 3.6 kg/ha (1.45 kg/acre) or Dithane M-45 at 3.4 kg/ha (1.4 kg/acre)	Apply on a 7-10 day schedule between green tip and postbloom.	Do not apply more than 1.5 kg of product per season. Do not apply within 0 days of harvest
Scab (<i>Venturia spp</i>) Powdery Mildew (<i>Sphaerotheca/ Podosphaera spp.</i>) Prebloom Bloom Postbloom	Apples	VANGARD 75WG Fungicide in a tank mixture: 190 g/ha (75 g/acre) with: Nova [†] 40W at 340 g/ha (138 g/acre)		
Do enter or allow worker entry into treated orchards during the restricted entry interval (REI) of 12 hours.				

Disease/Timing	Crop	Product Rate	Application Timing	Notes
Brown Rot Blossom Blight (<i>Monolinia spp</i>) Bloom	Apricots Nectarines Peaches Plums Prunes	VANGARD 75WG Fungicide alone: 370 g/ha (150 g/acre)	Begin application at 5-10% bloom. Make a second application at full bloom.	Do not apply VANGARD 75WG Fungicide more than 2 times for the control of blossom blight. Applications must be made prior to petalfall. Do not apply VANGARD 75WG Fungicide on cherries.
	Peaches	VANGARD 75WG Fungicide in a tank mixture: 370 g/ha (150 g/acre) with one of the following: Nova 40W at 340 g/ha (140 g/acre) OR Rovral† WDG or Rovral WP at 840 g/ha (340 g/acre).		
Fruit Brown Rot (<i>Monolinia spp.</i>) Late Season	Apricots Nectarines Peaches Plums Prunes	VANGARD 75WG Fungicide alone: 740 g/ha (300 g/acre)	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.	Do not apply VANGARD 75WG Fungicide more than 2 times for the control of fruit brown rot. Do not apply within 2 days of harvest. Do not apply VANGARD 75WG Fungicide on cherries.
	Peaches Nectarines	VANGARD 75WG Fungicide in a tank mixture 370 g/ha (150 g/acre) with 340 g/ha (140 g/acre) of Nova 40W.	Apply 10-14 days prior to harvest. Make a second application 7-10 days later.	
	Peaches	VANGARD 75WG Fungicide in a tank mixture 370 g/ha (150 g/acre) with 840 g/ha (340 g/acre) of Rovral WP or Rovral WDG.	For peaches only, apply 10-14 days prior to harvest followed by a second application 7-10 days later.	
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.				

NOTE TO BUYER/USER:

The DIRECTIONS FOR USE for this product for the control of Botrytis Bunch Rot in grapes were developed by persons other than Syngenta Canada, Inc. 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 to control Botrytis Bunch Rot in grapes.

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 on grapes described below.

Ground application only. Do not apply by air.

Disease	Crop	Product Rate	Application timing	Notes
Botrytis Bunch Rot (<i>Botrytis cinerea</i>)	Grapes	VANGARD 75WG Fungicide alone: 750 g/ha (300 g/acre)	Begin application of VANGARD 75WG Fungicide at early bloom only if weather is wet. The most important application is at berry touch to bunch closure. An application can also be made at the early ripening (veraison) to pre-harvest period when symptoms of Botrytis Bunch Rot are showing or wet conditions conducive to infection are frequent. Thorough coverage of the bunches is essential.	Do not apply more than 2 applications of VANGARD 75WG Fungicide per year. Do not apply within 7 days of harvest For season long control, VANGARD 75WG Fungicide should be combined in a program with registered fungicides with a different mode of action.
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.				

SPRAY INSTRUCTION:

- 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.

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.

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 when such use is permitted.

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 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 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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