This label has been updated according to the re-evaluation decision of Mancozeb RVD2020-12. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 19-11-2022 in accordance with the phase out period set out in RVD2020-12. 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 4 M3 FUNGICIDES

# RIDOMIL GOLD® MZ 68WG

#### **FUNGICIDE**

#### **AGRICULTURAL**

Wettable granule fungicide for control of early blight (*Alternaria solani*) and late blight (*Phytophthora infestans*) on the foliage of potatoes; downy mildew (*Peronospora destructor*) in onions; downy mildew caused by *Plasmopara viticola* in grapes; and the suppression of *Pythium* leak and pink rot in potatoes.

#### **ACTIVE INGREDIENTS:**

Metalaxyl-M and S-isomer	4%
Mancozeb	64%

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

# POTENTIAL SKIN SENSITIZER CAUTION - EYE IRRITANT

REGISTRATION NO.: 28893
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 5 - 10 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,** 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 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

No specific antidote is known. If ingested, induce emesis or initiate gastric lavage. Treat symptomatically.

#### 4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed. May irritate eyes. Avoid contact with eyes. Harmful if absorbed through the skin. Potential skin sensitizer. Avoid contact with eyes, skin, or clothing.

Do not apply in such a way that this product will contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.

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.

This product is not to be used in or around homes or other residential areas such as parks, school grounds and/or playing fields. Residential areas are defined as any use site where the general public, including children, could be exposed during or after application. It is not for use by homeowners.

**RESTRICTED ENTRY INTERVAL: DO NOT** enter or allow worker entry into treated areas for various activities as outlined below.

Crop	Postapplication Activity	REI (days)
Potatoes	Harvesting	3
	All other activities	0.5
Onions (foliar)	Harvesting	14
	Hand weeding	1
	All other activities	0.5
Grapes	Harvesting	66
	Girdling, Turning	21
	Leaf pulling by hand, tying, training	7
	Hand set/Hand line irrigation related activities involving foliar contact	1
	All other activities	0.5

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)

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab or cockpit.

In addition, wear chemical-resistant headgear during open cab airblast application. Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves and chemical-resistant hat are not required during application within a closed cab.

A respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides is required when mixing/loading.

During open-cab groundboom application, applicators must wear either a respirator with a NIOSH approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH approved canister approved for pesticides OR use a closed-cab tractor that provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system) when handling more than 547 kg RIDOMIL GOLD MZ 68WG FUNGICIDE per person per day. The closed cab must have a chemical-resistant barrier that totally

surrounds the occupant and prevents contact with pesticides outside the cab. These restrictions are in place to minimize exposure to individual applicators. Application may need to be performed over multiple days or using multiple applicators.

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.

Do not eat, drink or smoke while mixing or during application.

#### 6.0 ENVIRONMENTAL PRECAUTIONS

Avoid application when weather conditions favour drift from treated areas.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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

TOXIC to small wild mammals and birds. May be toxic to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Best Management Practices" website Spraying on the Health Canada (www.canada.ca/pollinators)

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g.

compacted or fine-textured soils such as clay). In order to minimize risk to the environment from the use of this product, do not use on coarse textured gravelly soils, soils with less than 2% organic matter, or in areas where the water table may be high.

Avoid application of this product 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.

#### 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.

#### For disposal of bags:

- 1. Empty bag thoroughly into spray tank.
- 2. Make the empty bag unsuitable for further use.
- 3. Dispose of the bag in accordance with provincial requirements.

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

RIDOMIL GOLD® is a trademark of a Syngenta Group Company.

GROUP 4 M3 FUNGICIDES

# RIDOMIL GOLD® MZ 68WG

### **FUNGICIDE**

#### **AGRICULTURAL**

Wettable granule fungicide for control of early blight (*Alternaria solani*) and late blight (*Phytophthora infestans*) on the foliage of potatoes; downy mildew (*Peronospora destructor*) in onions; downy mildew caused by *Plasmopara viticola* in grapes; and the suppression of *Pythium* leak and pink rot in potatoes.

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# POTENTIAL SKIN SENSITIZER CAUTION - EYE IRRITANT

REGISTRATION NO.: 28893
PEST CONTROL PRODUCTS ACT

#### Syngenta Canada Inc.

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

PAMPHLET

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restrictions are in place to minimize exposure to individual applicators. Application may need to be performed over multiple days or using multiple applicators."

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.

Do not eat, drink or smoke while mixing or during application.

#### 6.0 ENVIRONMENTAL PRECAUTIONS

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

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This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. compacted or fine-textured soils such as clay). In order to minimize risk to the environment from

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the use of this product, do not use on coarse textured gravelly soils, soils with less than 2% organic matter, or in areas where the water table may be high.

Avoid application of this product 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.

#### 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.

# For disposal of bags:

- 4. Empty bag thoroughly into spray tank.
- 5. Make the empty bag unsuitable for further use.
- 6. Dispose of the bag in accordance with provincial requirements.

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

## 9.0 PRODUCT INFORMATION

RIDOMIL GOLD® MZ 68WG is a combination of a systemic and contact fungicide to be used as a foliar spray in a preventative disease control program for the control of early blight and late blight on the foliage of potatoes; the suppression of *Pythium* leak and pink rot in potatoes; the control of downy mildew in onions; and the control of downy mildew caused by *Plasmopara viticola* in grapes when used as a foliar spray in a preventative disease control program.

#### 9.1 Use Limitations

Experience has shown that strains of *Phytophthora* resistant to metalaxyl-M and S-isomer may develop. Failure to control the disease will result in crop damage and/or yield losses in the field or in storage. Since the occurrence of resistance cannot be foreseen, Syngenta Crop Protection Canada Inc. accepts no responsibility for any loss of, or damage to crops in the field or in storage, resulting from the failure of RIDOMIL MZ 68WG to control the resistant *Phytophthora* strains.

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If disease appears in the field, consult the Government Disease Specialist immediately.

# 10.0 DIRECTIONS FOR USE

#### 10.1 General Information

As this pesticide 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.

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) on the label. Employers should make every effort to schedule pesticide applications and worker tasks in order to avoid early entry of workers into treated areas. Under exceptional circumstances, certified pesticide applicators may enter treated areas for short-term tasks not involving hand labour if at least 4 hours have passed since application and a long-sleeved shirt, long pants, chemical-resistant footwear, socks, goggles, chemical-resistant gloves and a respirator with a NIOSH-approved organic- vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH- approved canister approved for pesticides is worn. Time spent in the treated area cannot exceed 1 hour in a 24 hour period or until restricted-entry interval is over.

The total seasonal application of mancozeb and metiram combined cannot exceed the maximum number of applications on potatoes of either chemical per year with no more than 3 applications being metiram.

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

When applied as directed, RIDOMIL GOLD MZ 68WG FUNGICIDE will control the listed diseases, unless otherwise indicated as suppression.

**DO NOT** apply using handheld equipment.

**DO NOT** apply in greenhouses.

**DO NOT** apply by hand.

#### 10.2 Application Information

- 1. Do not prepare more spray mixture than is needed for the immediate operation.
- 2. Thoroughly clean spray equipment before using this product.
- 3. Vigorous agitation is necessary to disperse the product.
- 4. Maintain maximum agitation throughout the spraying operation.
- 5. Flush the spray equipment thoroughly with water daily after use and dispose of pesticide rinsate by application to an already treated area.

Amount of water needed per acre will vary according to the amount of plant growth. For dilute ground applications, the water volume will vary from 200-1400 L/ha. For aerial applications, apply in 50-100 L of water per hectare. To minimize the potential of drift from target area, applications at wind speeds greater than 10 mph are not recommended. DO NOT USE LESS THAN 50 L WATER PER HECTARE.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

#### NOTE:

Do not let tank contents stand for prolonged periods of time without agitation. If spraying is interrupted, thoroughly re-agitate the spray solution before resuming application.

## 10.3 Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions call the manufacturer at 1-87-SYNGENTA (1-877-964-3682) or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

- 1. Apply RIDOMIL GOLD MZ 68WG in a minimum of 50 L of water/ha.
- 2. Adjust nozzles to provide a median droplet size of 200-400 microns.
- 3. To ensure proper coverage and distribution of spray solution, and to minimize drift, check to see that swath width and droplet size are adequate, and that wind velocities are low.

# 10.4 Ground Application

#### 10.4.1 General Information

**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 and Biological Engineers (ASABE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

- 1. Use well-maintained and calibrated conventional spray equipment to obtain thorough and uniform coverage.
- 2. Spray screens should be no finer than 50 mesh.
- 3. Ensure that the by-pass line discharges at the bottom of the tank to minimize foaming.
- 4. Maintain pressure of at least 275 kPa to ensure good foliage penetration and coverage.

# 10.4.2 Mixing Instructions

- 1. Ensure that the sprayer interior is clean, then fill the spray tank with ½ the required amount of water and engage gentle agitation. Good agitation is indicated by a rippling or rolling action on the surface of the water.
- 2. Add RIDOMIL GOLD MZ 68WG Fungicide and agitate to ensure complete mixing.
- 3. Finish filling the sprayer with water, maintaining good agitation.
- 4. After any break in spraying operations, agitate thoroughly before spraying again.

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- 5. Spray the pesticide suspension the same day as mixing.
- 6. **DO NOT** mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

## 10.4.3 Equipment Clean-Up

#### Before Spraying:

 Prior to using RIDOMIL GOLD MZ 68WG Fungicide, ensure that the spray tank, lines and filter are thoroughly clean.

#### After Spraying:

- Thoroughly clean application equipment immediately after spraying. DO NOT allow RIDOMIL GOLD MZ 68WG Fungicide residue to dry within the spray tank
- The following recommendations are provided:
  - 1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean the sprayer near desirable vegetation, wells or other water sources.
  - 2. Remove all nozzles and screens and wash separately.
  - 3. Dispose of all rinsate in accordance with provincial regulations.

# 10.5 Airblast Application

**Airblast application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/hr.

#### 10.5.1 Spraying Instructions

- 1. <u>Water Volume:</u> Apply in a minimum spray volume of 375 L/ha. Water volume should exceed the minimum recommendation at later stages of fruit development.
- 2. <u>Spray Quality:</u> Select nozzles and pressure to achieve a minimum of ASABE medium sized droplets.
- 3. <u>Spray Distribution:</u> Select nozzles, orient deflectors, and adjust air speed and volume to ensure only the canopy is sprayed. Spray should just reach the top of the target. Account for the shape and canopy density of the target when setting spray distribution.
- 4. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly fine particles (mist). **DO NOT** apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. **DO NOT** spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

# 10.6 Aerial Application (Potatoes Only)

#### **10.6.1 General Information**

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at

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flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural and Biological Engineers (ASABE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

# 10.6.2 Aerial Application Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist).

Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

#### **10.6.3 Aerial Application Operator Precautions**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Do not use human flaggers. Avoid spray drift. Apply only when there is little or no hazard from spray drift. Small quantities of the spray, which may not be visible, may seriously injure susceptible crops and damage sensitive non-target habitats. A method, such as balloons or a continuous smoke column at or near the spray site or a smoke generator on the spray

equipment, must be used to detect air movement, lapse conditions or temperature inversions (stable air). If the smoke develops into layers or indicates a potential for hazardous spray drift, do not spray.

# **10.6.4 Mixing Instructions**

Mixing this product directly in the aircraft hopper **IS NOT** recommended. The use of chemical handling or managing equipment to load the hopper **IS** recommended. This product **MAY BE** inducted into a hopper which is prefilled with water or when the product and water are mixed prior to entering the hopper. This product **MAY BE** batch mixed and pumped into the hopper. In all cases the chemical handling equipment and hopper interior must be clean prior to use.

Follow the mixing order outlined below:

- 1. Pump water into the hopper to at least ¼ to ½ of the desired spray volume. Engage hopper circulation, if possible.
- 2. Induct or thoroughly batch mix RIDOMIL GOLD MZ 68WG Fungicide.
- 3. Pump batch mixed into the hopper.
- 4. Finish filling the hopper with water.
- 5. If it was not possible to engage hopper agitation in Step 1, do so as soon as possible once airborne.
- 6. Spray the pesticide suspension the same day as mixing.
- 7. Do not mix, load or clean equipment where there is a potential to contaminate wells or aquatic systems.

NOTE: RIDOMIL GOLD MZ 68WG Fungicide MAY BE inducted or batch mixed.

## 10.6.5 Spraying Instructions

- 1. <u>Water Volume:</u> Apply in a minimum spray volume of 50 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
- 2. <u>Spray Nozzles:</u> Use only ASABE medium nozzles rated as delivering droplets of volume median diameter of 300 microns or greater.
- 3. <u>Pressure:</u> As recommended by the nozzle manufacturer to achieve ASABE medium sized droplets.
- 4. Ensure hopper agitation is engaged whenever possible during flight.

#### 10.7 Buffer zones

Spot treatments using hand-held equipment do not require a spray buffer zone. Use of low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage, and soil drench or soil incorporation do not require a spray buffer zone.

The spray 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) and estuarine/marine habitats.

Method of Application	Crop Spray Buffer Zones (metres) Required for the Protection of:				ed for the	
				r Habitat of other		e/Marine of Depths:
			Less than	Greater	Less than	Greater
			1 m	than 1 m	1 m	than 1 m
Field Sprayer	Onions (foliar), Potatoes		5	1	2	1
Airblast	Grapes	Early Growth Stage	40	20	30	20
		Late Growth Stage	30	10	20	10
Aerial	Potatoes	Fixed-wing	275	15	50	15
		Rotary-Wing	150	10	35	10

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASABE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

#### 11.0 CROP USE DIRECTIONS

#### 11.1 Potatoes

Control of Early Blight (*Alternaria solani*) and Late Blight (*Phytophthora infestans*) on the foliage of potatoes, and the suppression of *Pythium* Leak (*Pythium* spp.) and Pink Rot in potatoes

RIDOMIL GOLD MZ 68WG should be applied as part of a preventative disease management program. Cultural practices to minimize the sources of disease should be used as well as early preventative applications of fungicides. RIDOMIL GOLD MZ 68WG must be applied before the outbreak of disease. RIDOMIL GOLD MZ 68WG, when applied in a program with a contact fungicide recommended for late blight control as outlined below, will control early blight.

Apply up to 3 applications of RIDOMIL GOLD MZ 68WG at 2.5 kg/ha in sufficient water to ensure thorough coverage of foliage (for aerial application, apply 2.5 kg of RIDOMIL MZ 68WG in a minimum of 50 L of water per hectare). Start application early - the first application should be applied before the leaves of the plants touch within a particular potato row. Apply a second and third application of RIDOMIL GOLD MZ 68WG at 5 day intervals. Apply a contact fungicide, recommended for the control of late blight, 5 days after each RIDOMIL GOLD MZ 68WG application. After the final RIDOMIL GOLD MZ 68WG application apply a registered contact fungicide at the recommended rate and interval, to the end of the season. Do not apply within 3 days of harvest.

Up to 3 applications of RIDOMIL GOLD MZ 68WG may be applied per season. Apply a contact fungicide within 5 days of the last RIDOMIL GOLD MZ 68WG application. When potato vines start to visually mature, discontinue use of RIDOMIL GOLD MZ 68WG and return to a contact fungicide program. Excessive tuber bruising or wounding during harvest will reduce suberization

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and increase the chances for development of storage disease problems. Consult local potato specialist for late blight forecasting and potato vine maturity advice in your area.

**NOTE:** If applications of RIDOMIL GOLD MZ 68WG are being made, as recommended for control of foliar diseases, additional applications for tuber disease control are not needed.

**COMPATIBILITY:** RIDOMIL GOLD MZ 68WG is compatible with most commonly used potato insecticides. However, compatibility should always be confirmed by pre-mixing small proportional quantities of chemicals in water in advance.

Do not tank mix RIDOMIL GOLD MZ 68WG with a top killer. Top killers prevent the systemic activity of RIDOMIL GOLD MZ 68WG.

#### 12.0 MINOR USES

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.

#### 12.1 Onions

## For Control of Downy Mildew (Peronospora destructor)

RIDOMIL GOLD MZ 68WG must be applied before the outbreak of the disease. Apply RIDOMIL GOLD MZ 68WG at the rate of 2.5 kg/ha in sufficient water to ensure thorough coverage of foliage. Apply every 7 days, beginning when conditions favour the outbreak of downy mildew. Make a maximum of 3 applications per season. Do not apply within 14 days of harvest.

When changing from RIDOMIL GOLD MZ 68WG to a contact fungicide, apply the contact fungicide within 10 days of the last RIDOMIL GOLD MZ 68WG application.

# 12.2 Grapes

# Downy Mildew caused by Plasmopara viticola

Apply 2.5 kg of RIDOMIL GOLD MZ 68WG per hectare as a post-bloom spray using ground application equipment in sufficient water to obtain thorough coverage of the foliage. Make only one application per year, as a post-bloom spray. Do not apply within 66 days of harvest.

#### 13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, RIDOMIL GOLD MZ 68WG contains Group M3 and 4 fungicides. Any fungal population may contain individuals naturally resistant to RIDOMIL GOLD MZ 68WG and other Group M3 and 4 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 RIDOMIL GOLD MZ 68WG or other Group M3 or 4 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 RIDOMIL GOLD MZ 68WG 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 <a href="https://www.syngenta.ca">www.syngenta.ca</a>.

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