

GROUP	4	FUNGICIDE
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**RIDOMIL GOLD® 480SL**

FUNGICIDE

COMMERCIAL - AGRICULTURAL

SOLUTION

For the control or suppression of certain diseases caused by the Oomycete class of fungi in Apples (non-bearing), Crop Subgroup 3-07A (Bulb Onions), Field and Greenhouse Cucumbers, Ginseng, Grapes, Green Onion, Head and Leaf Lettuce, Hops, Raspberries, Blueberries, Snap Beans, Strawberries, Tobacco, Spinach, Radish and Potatoes.

**ACTIVE INGREDIENT:**

Metalaxyl-M and S-isomer ..... 480 g/L

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

WARNING



POISON

**EYE IRRITANT, SKIN IRRITANT**

Warning: Contains the allergen sulfites

Harmful if swallowed. Avoid inhalation of spray mist. Avoid contact with skin and eyes.  
Avoid contamination of food and feed and domestic or irrigation water supplies, lakes, streams and ponds.

REGISTRATION NO.: **28474**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 10 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. 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 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 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 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. Treat symptomatically. Contact with eyes may require specialized ophthalmologic attention.

## 4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Harmful or Fatal if swallowed. Causes eye irritation. DO NOT get in eyes. May irritate the skin. Avoid contact with skin.

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.

**DO NOT** enter or allow worker entry into treated areas during the intervals specified in the following table. **Where the REI for harvesting activities and PHI differ, the longer of the two intervals must be followed when harvesting the crop.**

Crop	Preharvest Interval (PHI) (days)	Postapplication Activity	Restricted-entry Interval (REI) (hours or days)
Head and Leaf lettuce	7	All activities	12 hours
Crop subgroup 3-07A-Bulb onions	7	All activities	12 hours
Grapes	50	Girdling and turning grapes	3 days
		All other activities	12 hours
Greenhouse cucumbers	21	All activities	12 hours
Highbush blueberries	80	All activities	12 hours
Radish	21	All activities	12 hours
Hops	90	All activities	12 hours
Green onions	7	All activities	12 hours
All other crops on the label	Not specified	All activities	12 hours

DO NOT use or store near heat or open flame.

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 1-877-SYNGENTA / 1-877-964-3682.

## 5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

DO NOT get in eyes, on skin or on clothing.

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. 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 are not required during application within a closed cab. Change clothing after use. Wash with soap and water after use. DO NOT eat, drink or smoke while mixing or during application.

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, using the toilet or using a handheld device.

## 6.0 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Avoid application when weather conditions favour drift from treated areas.

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 groundwater contamination.

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 of this product 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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

## 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. Store this product away from food or feed.

## 8.0 DISPOSAL

### **Recyclable Containers:**

Disposal of container: 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 or territorial requirements.

Disposal of unused, unwanted product: For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for clean-up of spills.

***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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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 groundwater contamination.

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Avoid application of this product when heavy rain is forecast.

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## **7.0 STORAGE**

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

## 9.0 PRODUCT INFORMATION

RIDOMIL GOLD® 480SL Fungicide is a systemic fungicide for use in a preventative program for the control of:

- Collar rot in apples (non-bearing),
- Pythium* damping-off in field cucumbers,
- Pythium* sp. in greenhouse cucumbers,
- Pythium* damping-off and *Phytophthora* root rot in ginseng,
- Downy Mildew in hops,
- Downy Mildew in head and leaf lettuce,
- Downy Mildew in grapes,
- Downy Mildew in bulb onions,
- Pythium* and *Phytophthora* root rot in raspberries,
- Phytophthora* root rot in highbush blueberries,
- Pythium* damping-off and *Phytophthora* root rot in snap beans,
- Red stele in strawberries,
- Pythium* spp. in tobacco greenhouse seedbeds,
- Blue mold in tobacco,
- Downy mildew in spinach,
- Suppression of Downy mildew in radishes and green onions,
- Suppression of Pink Rot and *Pythium* Leak in potatoes, and
- Foliar Late blight in potatoes

RIDOMIL GOLD 480SL Fungicide is readily absorbed by the roots and provides protection against attack from these diseases under varied weather conditions.

Experience has shown that strains of fungus resistant to metalaxyl-M and S-isomer may develop. Failure to control the disease will result in crop damage and/or yield losses. The occurrence of the resistance cannot be foreseen and may result in the loss of, or damage to, crops resulting from the failure of RIDOMIL GOLD 480SL Fungicide to control the resistant fungus strains. If disease appears in a treated field, consult your local government extension specialist immediately.

DO NOT apply by handheld airblast or mistblower equipment.

**DO NOT USE RIDOMIL GOLD 480SL FUNGICIDE AS A FOLIAR APPLICATION UNLESS SPECIFIED ON THIS LABEL.**

**DO NOT dip plants or roots, spray bare roots, or use a transplant water treatment with solutions containing RIDOMIL GOLD 480SL Fungicide.**

## 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.

DO NOT apply by air.

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 when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Boom height must be 60 cm or less above the crop or ground.

## 10.3 Spray Buffer zones

A spray buffer zone is NOT required for:

- Low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- Soil drench or soil incorporation.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Crop	Spray Buffer Zones (metres) Required for the Protection of:	
		Freshwater Habitat of Depths:	Terrestrial Habitat
		Less than 1 m	
Field sprayer	Strawberry	0	1
	Radish	0	1

When tank mixes are permitted, 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 for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

## 11.0 CROP USE DIRECTIONS

### 11.1 Apples

<b>CROP</b>	<b>APPLES (Non-Bearing)</b>
<b>DISEASE</b>	<i>Phytophthora</i> Collar Rot
<b>PRODUCT USE RATE</b>	1 mL of product in 5 L of water per tree
<b>NOTES</b>	RIDOMIL GOLD 480SL Fungicide should be applied as a thorough drench to the surface of the soil around the base of the tree. Make the first application at the time of planting, as a preventative treatment and make a second application in late August. In subsequent non-bearing years, apply RIDOMIL GOLD 480SL Fungicide in the spring before new growth begins (usually late April) and again in late August.

### 11.2 Raspberries

<b>CROP</b>	<b>RASPBERRIES</b>
<b>DISEASE</b>	<i>Pythium</i> and <i>Phytophthora</i> Root Rot
<b>PRODUCT USE RATE</b>	37 mL per 100 metres of row
<b>NOTES</b>	<p><b><u>NEW PLANTINGS:</u></b> Apply to the soil surface in a one-metre wide band centred over the row, as a post planting soil drench. Make a second application at the same rate in the fall prior to freeze-up (no later than November 30).</p> <p><b><u>ESTABLISHED PLANTINGS:</u></b> Apply to the soil surface in a one-metre wide band centred over the row in the fall prior to freeze-up (no later than November 30).</p> <p>RIDOMIL GOLD 480SL Fungicide will readily move into the soil root zone following rain or irrigation.</p> <p>RIDOMIL GOLD 480SL Fungicide SHOULD NOT BE APPLIED IN THE SPRING ON ESTABLISHED PLANTINGS.</p>

### 11.3 Strawberries

<b>CROP</b>	<b>STRAWBERRIES: Ontario, Quebec and Maritime Provinces</b>
<b>DISEASE</b>	Red Stele
<b>PRODUCT USE RATE</b>	1 L per hectare
<b>NOTES</b>	Apply as a broadcast application in sufficient water to ensure even coverage. If dry conditions occur at the time of application, use sufficient water volume (2500 L/ha) to ensure movement of RIDOMIL GOLD 480SL Fungicide into the root zone.

	<p><b>NEW PLANTINGS:</b>  <u>First Application</u> - Apply in early September.</p> <p><u>Second Application</u> - Apply in late October but not later than October 31.</p> <p><b>ESTABLISHED PLANTINGS:</b>  <u>Fall Application</u> - First application in early September.</p> <p><u>Second Application</u> - Apply in late October but not later than October 31.</p> <p>RIDOMIL GOLD 480SL Fungicide SHOULD NOT BE APPLIED IN THE SPRING ON ESTABLISHED PLANTINGS.</p>
<b>CROP</b>	<b>STRAWBERRIES: Western Canada</b>
<b>DISEASE</b>	Red Stele
<b>PRODUCT USE RATE</b>	20 mL per 100 metres of row
<b>NOTES</b>	<p><b>NEW PLANTINGS:</b>  Apply to the soil surface in a one-metre wide band centred over the row, as a post planting soil drench. Make a second application at the same rate in the fall prior to freeze-up (no later than November 30).</p> <p><b>ESTABLISHED PLANTINGS:</b>  Apply to the soil surface in a one-metre wide band centred over the row, in the fall prior to freeze-up (no later than November 30).</p> <p>RIDOMIL GOLD 480SL Fungicide will readily move into the soil root zone following rain or irrigation.</p> <p>RIDOMIL GOLD 480SL Fungicide SHOULD NOT BE APPLIED IN THE SPRING ON ESTABLISHED PLANTINGS.</p> <p><b>WARNING:</b></p> <p>FAILURE TO FOLLOW LABEL DIRECTIONS MAY RESULT IN FAILURE TO CONTROL RED STELE. IF SPRAYERS ARE NOT THOROUGHLY CLEANED BEFORE APPLYING RIDOMIL GOLD 480SL FUNGICIDE, SEVERE CROP DAMAGE MAY OCCUR. CONSULT THE LOCAL FRUIT SPECIALIST ON PROPER SPRAYER CLEANING TECHNIQUES.</p>

#### 11.4 Potatoes

<b>CROP</b>	<b>POTATOES</b>
<b>DISEASES</b>	Control of foliar late blight and suppression of Pythium Leak ( <i>Pythium</i> spp.) and Pink Rot ( <i>Phytophthora erythroseptica</i> )
<b>PRODUCT USE RATE</b>	0.208 L/ha RIDOMIL GOLD 480SL
<b>NOTES</b>	<p>RIDOMIL GOLD 480SL must be applied in a tank mix that includes a non-Group 4 fungicide with efficacy against late blight.</p> <p>Apply a second and third application at 14-day intervals. Apply a registered contact fungicide at 7-day intervals after application of this tank mixture. Use a minimum of 50 L of water to obtain adequate spray coverage.</p> <p>Begin applications when plants are 15-20 cm high but no later than when plant foliage meets within the row uniformly across the field, or when disease threatens.</p>

	<b>Restrictions:</b> DO NOT apply more than three (3) applications per year regardless of the disease being treated. DO NOT apply to potato plants later than 14 days before harvest.
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### 11.5 Tobacco

<b>CROP</b>	<b>TOBACCO GREENHOUSE SEEDBEDS</b>
<b>DISEASES</b>	<i>Pythium</i> spp.
<b>PRODUCT USE RATE</b>	12 mL in 100 litres of water and apply to 100 square metres of plant bed
<b>NOTES</b>	Apply within 72 hours prior to seeding. DO NOT APPLY RIDOMIL GOLD 480SL FUNGICIDE WITH EQUIPMENT THAT HAS BEEN USED PREVIOUSLY FOR HERBICIDE APPLICATION.
<b>CROP</b>	<b>TOBACCO (FLUE-CURED) - FIELD APPLICATION</b>
<b>DISEASE</b>	Blue Mold
<b>PRODUCT USE RATE</b>	600 mL to 1.2 L/ha (First Application)
<b>NOTES</b>	<p><b>First Application:</b> Apply to soil prior to transplanting.</p> <p>If dry weather persists after application, irrigation or cultivation is required to move RIDOMIL GOLD 480SL Fungicide into the root zone. The 600 mL/ha rate may give a maximum of five weeks prevention against blue mold. To date, experience in Ontario indicates that blue mold usually becomes a problem in the last two weeks of July, and the first week of August. If season-long control of blue mold is desired, apply the 1.2 litre rate of RIDOMIL GOLD 480SL Fungicide.</p> <p>DO NOT make this lay-by application if more than 600 mL of RIDOMIL GOLD 480SL Fungicide were applied before transplanting. DO NOT use RIDOMIL GOLD 480SL Fungicide as a foliar application on field grown tobacco or injury may occur.</p>
<b>PRODUCT USE RATE</b>	600 mL/ha (Second Application)
<b>NOTES</b>	<p><b>Second Application:</b> For prolonged control of blue mold in field planted tobacco, make a supplemental application of RIDOMIL GOLD 480SL Fungicide at 600 mL/ha as a broadcast soil application before the last cultivation. If dry weather persists after application, irrigation must be applied to move RIDOMIL GOLD 480SL Fungicide into the root zone.</p> <p>DO NOT make this lay-by application if more than 600 mL of RIDOMIL GOLD 480SL Fungicide were applied before transplanting. DO NOT use RIDOMIL GOLD 480SL Fungicide as a foliar application on field grown tobacco or injury may occur.</p>
<b>CROP</b>	<b>TOBACCO (BURLEY) - FIELD APPLICATION</b>
<b>DISEASES</b>	Blue Mold
<b>PRODUCT USE RATE</b>	1.2 L/ha for single application OR 600 mL/ha for split application
<b>NOTES</b>	<p>May be applied as a single application of 1.2 L/ha prior to transplanting or as a split application of 600 mL/ha prior to transplanting followed by 600 mL applied to the soil just prior to the final cultivation.</p> <p>If dry weather persists after application, irrigation must be applied to move RIDOMIL GOLD 480SL Fungicide into the root zone.</p> <p>DO NOT use RIDOMIL GOLD 480SL Fungicide as a foliar application on</p>

field grown tobacco or injury may occur.
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**TOBACCO****APPLICATION AND INCORPORATION INSTRUCTIONS:**

Apply RIDOMIL GOLD 480SL Fungicide close to and preferably within 24 hours prior to transplanting. Spray evenly over the entire soil surface. For proper incorporation, cultivate between the rows with S-Tine or Koniskilde-type teeth set to work the soil 10 cm deep, making sure the sides of the fumigant hill are removed. Travel at a ground speed of 10-13 km/hr. Minimize soil movement from the top of the fumigant hill during transplanting so that young seedlings are not surrounded by untreated soil. DO NOT BAND. DO NOT APPLY IN TRANSPLANT WATER. DO NOT APPLY RIDOMIL GOLD 480SL FUNGICIDE BY AIRCRAFT.

**WARNING:**

FAILURE TO FOLLOW LABEL DIRECTIONS MAY RESULT IN FAILURE TO CONTROL BLUE MOLD. IF HERBICIDE SPRAYERS ARE NOT THOROUGHLY CLEANED BEFORE APPLYING RIDOMIL GOLD 480SL FUNGICIDE, SEVERE CROP DAMAGE MAY OCCUR. CONSULT THE LOCAL TOBACCO SPECIALIST ON PROPER SPRAYER CLEANING TECHNIQUES.

**TOBACCO FIELD APPLICATION - Mixing and Spraying Instructions:**

1. Fill spray tank 1/2 to 3/4 full with water.
2. With agitation system engaged, add the required amount of RIDOMIL GOLD 480SL Fungicide (see application rates section of the label) and then continue filling the tank with water.
3. Maintain sufficient agitation during the mixing and spraying operation.
4. Sprayer equipment should be thoroughly flushed with clean water and drained before and after use of RIDOMIL GOLD 480SL Fungicide.

**NOTE:** DO NOT let tank contents stand for long periods of time without agitation. If spraying is interrupted, thoroughly re-agitate the spray solution before application. RIDOMIL GOLD 480SL FUNGICIDE SPRAY SOLUTION MUST NOT BE STORED OVERNIGHT.

**Sprayer Information:**

Use 50 mesh or larger nozzle screens. Keep by-pass line on or near bottom of tank to minimize foaming. Spray pressure: 200 to 300 kPa.  
Spray volume per hectare: 200 to 300 litres of water.

**COMPATIBILITY:** RIDOMIL GOLD 480SL FUNGICIDE SHOULD NOT BE TANK-MIXED WITH ANY NEMATOCIDE, INSECTICIDE, HERBICIDE, FUNGICIDE, OR FERTILIZER.

**11.6 Head and Leaf Lettuce**

<b>CROPS</b>	<b>Head and Leaf Lettuce</b>
<b>DISEASE</b>	Downy mildew ( <i>Bremia lactucae</i> )
<b>PRODUCT USE RATE</b>	208 mL/ha
<b>PRE-HARVEST INTERVAL (PHI)</b>	7 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	4
<b>NOTES</b>	<p>Apply RIDOMIL GOLD 480SL as a foliar spray (groundboom) in a tank mix that includes a non-Group 4 fungicide with efficacy against downy mildew following 14 day re-application intervals.</p> <p>Apply no more than 2 consecutive applications of Ridomil Gold 480SL.</p>

	<p>Apply in a sufficient amount of water to ensure thorough coverage of foliage. A minimum spray volume of 100 L/ha is recommended.</p> <p>Apply when conditions are favorable for disease, but before infection.</p>
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### 11.7 Crop Subgroup 3-07A – Bulb Onions

CROP SUBGROUP 3-07A: Bulb Onions	
<b>CROPS</b>	<p>Daylily, bulb Fritillaria Garlic, bulb Garlic, great-headed, bulb Garlic, serpent, bulb Lily</p> <p>Onion, bulb Onion, Chinese, bulb Onion, pearl Onion, potato, bulb Shallot, bulb</p>
<b>DISEASE</b>	Downy Mildew ( <i>Peronospora destructor</i> )
<b>PRODUCT USE RATE</b>	208 mL/ha
<b>PRE-HARVEST INTERVAL (PHI)</b>	7 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	3
<b>NOTES</b>	<p>Apply as a foliar spray following a 7 day re-application interval.</p> <p>RIDOMIL GOLD 480SL must be applied in a tank mix that includes a non-Group 4 fungicide with efficacy against downy mildew.</p> <p>Apply no more than 2 consecutive applications of Ridomil Gold 480SL.</p> <p>Apply in a sufficient amount of water to ensure thorough coverage of foliage. A minimum spray volume of 100 L/ha is recommended.</p> <p>Begin applications when conditions favour the outbreak of Downy mildew.</p>

### 11.8 Grapes

<b>CROP</b>	<b>Grapes</b>
<b>DISEASE</b>	Downy mildew ( <i>Plasmopara viticola</i> )
<b>PRODUCT USE RATE</b>	208 mL/ha
<b>PRE-HARVEST INTERVAL (PHI)</b>	50 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	1
<b>NOTES</b>	<p>For girdling and turning re-entry activities in grapes, the restricted entry interval (REI) is 3 days. The REI for all other activities is 12 hours.</p> <p>Handheld airblast/mistblower applications are prohibited.</p> <p>RIDOMIL GOLD 480SL must be applied in a tank mix that includes a non-Group 4 fungicide with efficacy against downy mildew.</p> <p>Apply by airblast using a sufficient amount of water to ensure thorough coverage of foliage. A minimum spray volume of 500 L/ha is recommended.</p>



	Apply when conditions are favorable for disease but prior to disease development. Application may be made either pre- or post-bloom
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## 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 Ginseng

CROPS	GINSENG
DISEASE CONTROLLED	<i>Pythium</i> Damping-Off
PRODUCT USE RATE	650 mL/ha
APPLICATION TIMING/INSTRUCTIONS	For the control of <i>Pythium</i> damping-off in the seedling year apply to soil just prior to emergence of the seedlings.
DISEASE CONTROLLED	<i>Phytophthora</i> Root Rot
PRODUCT USE RATE	650 mL/ha
APPLICATION TIMING/INSTRUCTIONS	For the control of <i>Phytophthora</i> root rot in subsequent years apply as a soil broadcast application in the spring prior to the emergence of the ginseng.
MINIMUM RECOMMENDED APPLICATION WATER VOLUME	2500 L/ha
MAXIMUM NUMBER OF APPLICATIONS PER YEAR	DO NOT apply RIDOMIL GOLD 480SL Fungicide more than once a year.
NOTES	DO NOT USE RIDOMIL GOLD 480SL Fungicide DURING THE GROWING SEASON. Use up to 2 applications of RIDOMIL GOLD 1G during the growing season following the directions on the RIDOMIL GOLD 1G label. DO NOT apply products containing metalaxyl or metalaxyl-M and S-isomer within 9 days prior to harvesting ginseng. DO NOT make more than a total of 3 applications per year of products containing either metalaxyl or metalaxyl-M and S-isomer, including seed-treatment and/or treatment with mixture formulations.

**12.2 Cucumbers (Field)**

<b>CROPS</b>	<b>CUCUMBERS (FIELD)</b>
<b>DISEASE CONTROLLED</b>	<i>Pythium</i> Damping-Off
<b>PRODUCT USE RATE</b>	2.25 – 4.5 mL/100 m row
<b>APPLICATION TIMING/INSTRUCTIONS</b>	For the control of <i>Pythium</i> damping-off in cucumbers, apply as a 18 cm band, centred over the row. Apply immediately after seeding or just before transplanting. RIDOMIL GOLD 480SL Fungicide should be incorporated mechanically into the top 5 cm of soil before transplanting, or moved into the seed zone shortly after seeding with 15-25 mm of rainfall or irrigation. Use the high rate when disease pressure is high.
<b>MINIMUM RECOMMENDED APPLICATION WATER VOLUME</b>	200 L/ha
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	Apply RIDOMIL GOLD 480SL Fungicide to cucumbers only once per year with ground application equipment only
<b>NOTES</b>	<p>RIDOMIL GOLD 480SL Fungicide must only be applied as a spray to the soil surface. DO NOT use RIDOMIL GOLD 480SL Fungicide for disease control in greenhouse crops. DO NOT apply over the top of transplants, as a drench, or dip transplants in solutions containing RIDOMIL GOLD 480SL Fungicide.</p> <p>RIDOMIL GOLD 480SL Fungicide is readily absorbed by the roots and provides protection against attack from this disease under varied weather conditions.</p>

**12.3 Cucumbers (Greenhouse)**

**GROWERS USING THIS TREATMENT ARE REQUIRED TO SIGN A WAIVER OF LIABILITY AND INDEMNIFICATION CERTIFICATE BEFORE PURCHASING AND USING RIDOMIL GOLD 480SL Fungicide ON CUCUMBERS GROWN IN GREENHOUSES.**

<b>CROPS</b>	<b>CUCUMBERS (GREENHOUSE)</b>
<b>DISEASE CONTROLLED</b>	<i>Pythium</i> spp.
<b>PRODUCT USE RATE</b>	250 mL mixture (0.75 – 1.25 mL product/10 L water)
<b>APPLICATION TIMING/INSTRUCTIONS</b>	Apply once, immediately after transplanting as a drench to the growing media at the base of each plant.
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	1
<b>PRE-HARVEST INTERVAL (PHI)</b>	DO NOT APPLY WITHIN 21 DAYS OF HARVEST.
<b>NOTES</b>	<p>DO NOT APPLY RIDOMIL GOLD 480SL Fungicide TO THE FOLIAGE.</p> <p>DO NOT USE IN THE PROPAGATION HOUSE.</p> <p>DO NOT APPLY TO CUCUMBERS INTENDED FOR TRANSPLANT OUT TO FIELDS.</p> <p>DO NOT APPLY TO GREENHOUSE CUCUMBERS GROWN IN SOIL.</p>

**12.4 Snap Beans**

<b>CROPS</b>	<b>SNAP BEANS</b>
<b>DISEASES CONTROLLED</b>	<i>Pythium</i> Damping-Off and <i>Phytophthora</i> Root Rot
<b>PRODUCT USE RATE</b>	2.3 mL/100 m row
<b>APPLICATION TIMING/INSTRUCTIONS</b>	Apply to soil based on a 20 cm spray band and 76 cm row spacing. This is equivalent to an application rate of 300 mL of RIDOMIL GOLD 480SL Fungicide per treated hectare. Adjust the spray nozzles so that one third of the band is applied to each side of the seed furrow and one third directly into the seed furrow.  Apply at planting.
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	1

**12.5 Highbush Blueberry**

<b>CROPS</b>	<b>HIGHBUSH BLUEBERRY</b>
<b>DISEASE CONTROLLED</b>	Root Rot ( <i>Phytophthora cinnamoni</i> )
<b>PRODUCT USE RATE</b>	37 mL/100 m row
<b>APPLICATION TIMING/INSTRUCTIONS</b>	Apply to the soil surface in a one-metre wide band centred over the row in early spring prior to growth.
<b>MINIMUM RECOMMENDED APPLICATION WATER VOLUME</b>	2000 L/ha
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	1
<b>PRE-HARVEST INTERVAL (PHI)</b>	80 days

**12.6 Potatoes**

<b>CROPS</b>	<b>POTATOES</b>
<b>DISEASE SUPPRESSED</b>	Pink Rot ( <i>Phytophthora erythroseptica</i> )
<b>PRODUCT USE RATE</b>	4 mL/100 m row
<b>APPLICATION TIMING/INSTRUCTIONS</b>	Apply directly over the seed pieces in furrow as a 15-20 cm band prior to row closure.
<b>MINIMUM RECOMMENDED APPLICATION WATER VOLUME</b>	30 L/ha
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	1
<b>NOTES</b>	DO NOT apply RIDOMIL GOLD 480SL Fungicide beyond the at-planting stage.

### 12.7 Spinach

<b>CROPS</b>	<b>SPINACH</b>
<b>DISEASE CONTROLLED</b>	Downy Mildew ( <i>Peronospora farinose f.sp. spinaciae</i> )
<b>PRODUCT USE RATE</b>	1 L/ha
<b>APPLICATION TIMING/INSTRUCTIONS</b>	Apply at planting as a banded application over the row, pre-plant incorporated application.
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	1
<b>NOTES</b>	<p>Experience has shown that strains of fungus resistant to metalaxyl-M and S-isomer may develop. Failure to control the disease will result in crop damage and/or yield losses. The occurrence of the resistance cannot be foreseen, and loss of, or damage to, crops resulting from the failure of RIDOMIL GOLD 480SL Fungicide to control the resistant fungal strains may occur. If disease appears in a treated field, consult your local government extension specialist immediately.</p> <p>DO NOT apply RIDOMIL GOLD 480SL Fungicide beyond the at-planting stage.</p> <p>DO NOT APPLY BY AIR.</p>

### 12.8 Radish

<b>CROPS</b>	<b>RADISH</b>
<b>DISEASE SUPPRESSED</b>	Downy Mildew ( <i>Peronospora parasitica</i> )
<b>PRODUCT USE RATE</b>	1.2 – 2.4 L/ha
<b>APPLICATION TIMING/INSTRUCTIONS</b>	<p>Single Broadcast or Banded application: Before or at planting. For banded applications, use an 18 cm band.</p> <p>Use the higher rate in areas with a history of high disease pressure.</p>
<b>MINIMUM RECOMMENDED APPLICATION WATER VOLUME</b>	Apply in sufficient water to provide uniform coverage of soil.
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	1
<b>PRE-HARVEST INTERVAL (PHI)</b>	21 days
<b>NOTES</b>	DO NOT apply by air. DO NOT apply RIDOMIL GOLD 480SL Fungicide beyond the at-planting stage.

### 12.9 Hops

<b>CROPS</b>	<b>HOPS</b>
<b>DISEASE CONTROLLED</b>	Downy Mildew ( <i>Pseudoperonospora humuli</i> )
<b>USE RATE (PRODUCT/HA)</b>	570 mL/ha
<b>APPLICATION TIMING/INSTRUCTIONS</b>	Apply in early April as a soil drench at the root site.
<b>MINIMUM RECOMMENDED APPLICATION WATER VOLUME</b>	200 L/ha
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	1
<b>PRE-HARVEST INTERVAL (PHI)</b>	90 days

**12.10 Green Onions**

<b>CROPS</b>	<b>GREEN ONIONS</b>
<b>DISEASE SUPPRESSED</b>	Downy Mildew ( <i>Peronospora destructor</i> )
<b>USE RATE (PRODUCT/HA)</b>	208 mL/ha
<b>APPLICATION TIMING/INSTRUCTIONS</b>	<p>Apply by ground spray, foliar broadcast application.</p> <p>Apply every 7-14 days but DO NOT make back to back applications. Alternate with a product with a different mode of action. Begin applications when conditions favour the outbreak of Downy mildew.</p> <p>Where possible, rotate the use of RIDOMIL GOLD 480SL Fungicide or other Group 4 fungicides with different groups that control the same pathogens. When changing to a contact fungicide, apply the contact fungicide within 10 days of the last RIDOMIL GOLD 480SL application.</p> <p>DO NOT apply by air..</p>
<b>MINIMUM APPLICATION VOLUME</b>	Apply sufficient amount of water to ensure thorough coverage of foliage. Minimum spray volume of 100 L/ha is recommended.
<b>RECOMMENDED WATER VOLUME</b>	
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	3
<b>PRE-HARVEST INTERVAL (PHI)</b>	7 days

**13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that RIDOMIL GOLD 480SL Fungicide contains a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to RIDOMIL GOLD 480SL Fungicide and other Group 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 480SL Fungicide or other Group 4 fungicides with different groups that control the same pathogens. In order to minimize the potential for the development of resistance among the labeled disease organisms DO NOT use RIDOMIL GOLD 480SL Fungicide in any two consecutive seed generations.

Use tank mixtures with fungicide from a different group 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 Syngenta Canada Inc. if

reduced sensitivity of the pathogen to RIDOMIL GOLD 480SL 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 pathogens.

For further information and to report suspected resistance, contact Syngenta Canada Inc. at 1-877-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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