

RIDOMIL GOLD® 480SL

FUNGICIDE

SOLUTION

AGRICULTURAL

For the control or suppression of certain diseases caused by the Oomycete class of fungi in Apples (non-bearing), Field and Greenhouse Cucumbers, Ginseng, Green Onion, Hops, Raspberries, Blueberries, Snap Beans, Strawberries, Tobacco, Spinach, Radish and Potatoes.

ACTIVE INGREDIENT:

Metalaxyl-M and S-isomer 480 g/L

Warning: contains the allergen sulfites

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

WARNING



POISON

EYE IRRITANT, SKIN IRRITANT

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.

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.

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 to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

RESTRICTED ENTRY INTERVAL: DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 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.

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.

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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PAMPHLET

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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,
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.

9.1 Use Limitations

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 AIR.

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.

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 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.

10.3 Spray Buffer zones

A spray buffer zone is NOT required for:

- Uses with hand-held application equipment permitted on this label,
- 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 for metalaxyl are required between the point of direct application and the closest downwind edge of sensitive freshwater and terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), 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:	
		Freshwater Habitat of Depths:	Terrestrial Habitat
		Less than 1 m	
Field sprayer	Strawberry	0	1
	Radish	0	1

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 Pesticides portion of the Canada.ca website

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 (ASAE) category indicated on the labels for those tank mix partners.

11.0 CROP USE DIRECTIONS

11.1 Apples

CROP	APPLES (Non-Bearing)
DISEASE	<i>Phytophthora</i> Collar Rot
PRODUCT USE RATE	1 mL of product in 5 L of water per tree
NOTES	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

CROP	RASPBERRIES
DISEASE	<i>Pythium</i> and <i>Phytophthora</i> Root Rot
PRODUCT USE RATE	37 mL per 100 metres of row
NOTES	<p>NEW PLANTINGS: 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>ESTABLISHED PLANTINGS: 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

CROP	STRAWBERRIES: Ontario, Quebec and Maritime Provinces
DISEASE	Red Stele
PRODUCT USE RATE	1 L per hectare
NOTES	<p>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> <p>NEW PLANTINGS: <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>ESTABLISHED PLANTINGS: <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>
CROP	STRAWBERRIES: Western Canada

DISEASE	Red Stele
PRODUCT USE RATE	20 mL per 100 metres of row
NOTES	<p><u>NEW PLANTINGS:</u> 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><u>ESTABLISHED PLANTINGS:</u> 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>WARNING:</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

CROP	POTATOES
DISEASES	Control of foliar late blight and suppression of Pythium Leak (<i>Pythium</i> spp.) and Pink Rot (<i>Phytophthora erythroseptica</i>)
PRODUCT USE RATE	0.208 L/ha RIDOMIL GOLD 480SL
NOTES	<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> <p>Restrictions: DO NOT apply more than three (3) applications per season regardless of the disease being treated. DO NOT apply to potato plants later than 14 days before harvest.</p>

11.5 Tobacco

CROP	TOBACCO GREENHOUSE SEEDBEDS
DISEASES	<i>Pythium</i> spp.
PRODUCT USE RATE	12 mL in 100 litres of water and apply to 100 square metres of plant bed
NOTES	Apply within 72 hours prior to seeding. DO NOT APPLY RIDOMIL GOLD 480SL FUNGICIDE WITH EQUIPMENT THAT HAS BEEN USED PREVIOUSLY FOR HERBICIDE APPLICATION.
CROP	TOBACCO (FLUE-CURED) - FIELD APPLICATION
PESTS	Blue Mold
PRODUCT USE RATE	600 mL to 1.2 L/ha (First Application)
NOTES	<p>First Application: Apply 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>
PRODUCT USE RATE	600 mL/ha (Second Application)
NOTES	<p>Second Application: 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>
CROP	TOBACCO (BURLEY) - FIELD APPLICATION
DISEASES	Blue Mold
PRODUCT USE RATE	1.2 L/ha for single application OR 600 mL/ha for split application
NOTES	<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 field grown tobacco or injury may occur.</p>

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 Konksilde-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.

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.

DIRECTIONS FOR USE

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 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 SEASON	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)

CROPS	CUCUMBERS (FIELD)
DISEASE CONTROLLED	<i>Pythium</i> Damping-Off
PRODUCT USE RATE	2.25 – 4.5 mL/100 m row
APPLICATION TIMING/INSTRUCTIONS	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.
MINIMUM RECOMMENDED APPLICATION WATER VOLUME	200 L/ha
MAXIMUM NUMBER OF APPLICATIONS PER SEASON	Apply RIDOMIL GOLD 480SL Fungicide to cucumbers only once per year with ground application equipment only
NOTES	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. RIDOMIL GOLD 480SL Fungicide is readily absorbed by the roots and provides protection against attack from this disease under varied weather conditions.

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.

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

12.4 Snap Beans

CROPS	SNAP BEANS
DISEASES CONTROLLED	<i>Pythium</i> Damping-Off and <i>Phytophthora</i> Root Rot
PRODUCT USE RATE	2.3 mL/100 m row
APPLICATION TIMING/INSTRUCTIONS	Apply 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.
MAXIMUM NUMBER OF APPLICATIONS PER SEASON	1

12.5 Highbush Blueberry

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

12.6 Potatoes

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

12.7 Spinach:

CROPS	SPINACH
DISEASE CONTROLLED	Downy Mildew (<i>Peronospora farinose f.sp. spinaciae</i>)
PRODUCT USE RATE	1 L/ha
APPLICATION TIMING/INSTRUCTIONS	Apply at planting as a banded application over the row, pre-plant incorporated application.
MAXIMUM NUMBER OF APPLICATIONS PER SEASON	1
NOTES	<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

CROPS	RADISH
DISEASE SUPPRESSED	Downy Mildew (<i>Peronospora parasitica</i>)
PRODUCT USE RATE	1.2 – 2.4 L/ha
APPLICATION TIMING/INSTRUCTIONS	<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>
MINIMUM RECOMMENDED APPLICATION WATER VOLUME	Apply in sufficient water to provide uniform coverage of soil.
MAXIMUM NUMBER OF APPLICATIONS PER SEASON	1
PRE-HARVEST INTERVAL (PHI)	21 days
NOTES	DO NOT apply by air. DO NOT apply RIDOMIL GOLD 480SL Fungicide beyond the at-planting stage.

12.9 Hops

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

12.10 Green Onions

CROPS	GREEN ONIONS
DISEASE SUPPRESSED	Downy Mildew (<i>Peronospora destructor</i>)
USE RATE (PRODUCT/HA)	208 mL/ha
APPLICATION TIMING/INSTRUCTIONS	<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>
MINIMUM RECOMMENDED APPLICATION WATER VOLUME	Apply sufficient amount of water to ensure thorough coverage of foliage. Minimum spray volume of 100 L/ha is recommended.
MAXIMUM NUMBER OF APPLICATIONS PER YEAR	3
PRE-HARVEST INTERVAL (PHI)	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.

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