

GROUP 4 FUNGICIDE

RIDOMIL GOLD® 1G

FUNGICIDE

GRANULAR

AGRICULTURAL

Systemic fungicide for the control of Cavity Spot in Carrots, Damping Off and Stunt in Head Lettuce and Phytophthora Root Rot caused by *Phytophthora cactorum* in ginseng

ACTIVE INGREDIENT:

Metalaxyl-M and S-isomer..... 1%

READ THE LABEL BEFORE USING



REGISTRATION NO: **26612**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **11.34 kg**

Syngenta Canada Inc.
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Guelph, Ontario N1G 4Z3
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BAG LABEL

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

IF POISONING IS SUSPECTED, IMMEDIATELY contact a physician or a poison control centre. 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 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.

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.

TOXICOLOGICAL INFORMATION

No specific antidote is known. Treat symptomatically for ingestion and/or skin and eye contact. May be fatal if inhaled.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Do not enter or allow worker entry into treated areas for 12 hours after application. May be fatal if inhaled. Do not inhale dust. May cause eye irritation. Avoid contact with eyes. Wear a long sleeved shirt and long pants during mixing, loading, application, clean-up and repair activities. In addition, during mixing and loading, wear chemical resistant gloves and a respirator with a NIOSH/MSHA/BHSA approved organic-vapour-removing cartridge with a pre-filter approved for pesticides OR a NIOSH/MSHA/BHSA approved canister approved for pesticides. Harmful if swallowed. Avoid contact with skin. Do not eat, drink or smoke while loading applicator or during application. Change clothing after use. Wash with soap and water after use.

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.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca.

ENVIRONMENTAL PRECAUTIONS

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.

Environmental Hazards

The use of this product may result in contamination of groundwater, particularly in areas where soils are permeable (e.g. sandy soil) or the water table is shallow. 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.

DECONTAMINATION AND DISPOSAL

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

DISPOSAL:

1. Empty bag thoroughly.
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)***

GENERAL INFORMATION

RIDOMIL GOLD® 1G is a systemic fungicide for the control of cavity spot in carrots, damping-off or stunt in head lettuce and the control of phytophthora root rot in ginseng. RIDOMIL GOLD 1G Fungicide moves into the soil and is readily absorbed through the roots of plants. This provides protection against diseases found in the soil.

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. Since the occurrence of resistance cannot be foreseen, Syngenta Canada Inc. accepts no responsibility for any loss of, or damage to, crops resulting from the failure of RIDOMIL GOLD 1G Fungicide to control the resistant fungi strains. If high levels of disease appear, consult your horticultural specialist immediately. Do not use RIDOMIL GOLD 1G Fungicide for disease control in greenhouses.

IN FURROW APPLICATION

It is important to calibrate each individual granular applicator before use. Even after calibration, check the application rate under actual operating conditions. Application rates can vary due to changing moisture conditions, equipment wear and normal variation in product density and particle size distribution.

Calibration:

To calibrate a granular applicator, follow the procedure as outlined below:

1. Fill the hopper with RIDOMIL GOLD 1G Fungicide.
2. Attach a plastic bag to the spout opening.
3. Refer to the chart provided by the applicator manufacturer and select a setting which will deliver the required amount of product per 100 metres of row at the desired speed.
4. Measure off 300 metres and drive at the speed selected.
5. Weigh each bag and divide the weight of each bag by 3 to determine grams/100 metres. Adjust settings as needed to obtain the desired rate and repeat steps 2-5 until the setting delivers the correct number of grams per 100 m.
6. Repeat steps 1 to 5 for each applicator box.

Conversions:

Time to cover 300 m at:

6.4 kph = 2 min 47 sec = 4 mph

8 kph = 2 min 14 sec = 5 mph

9.7 kph = 1 min 55 sec = 6 mph

When calibrating granular applicators, follow the recommendations below:

1. To reduce granule flow variability, adjust orifice openings by moving the controls in one direction only, such as from the closed position to open.
2. Granule flow through an orifice is not always proportional to ground speed, so make calibration checks at the same speed you plant and maintain that ground speed as constant as possible when planting.

3. Granular pesticide products vary considerably in size, density and particle shape, so recalibrate applicators whenever you change brands and/or formulations. The same brand can even change from year to year.
4. Changing humidity and temperature during the day can change the flow rate of granules through the applicator's orifice. Recalibrate when conditions change and periodically readjust orifice settings to compensate.
5. Calibrate frequently. There are several acceptable calibration methods. Learn one. Do the arithmetic first, then complete the material collection phase under field conditions.

DIRECTIONS FOR USE

CARROTS:

Use RIDOMIL GOLD 1G Fungicide on carrots for control of cavity spot caused by *Pythium* spp. Apply RIDOMIL GOLD 1G Fungicide in the seed furrow at the rate of 25 kg per treated hectare at the time of planting. Ensure that the product is applied evenly with the seed in the seed furrow.

Apply RIDOMIL GOLD 1G Fungicide as an in furrow at-plant treatment at the rate of 25 kg per treated hectare. Calculate the amount of RIDOMIL GOLD 1G Fungicide to apply per 100 meters of row length by using the following directions:

1. Measure the width of each planter shoe in centimeters.
2. Adjust the granular applicator (see instructions elsewhere on this label) feeding the shoe to deliver 2.5g of RIDOMIL GOLD 1G Fungicide per cm of planter shoe width per 100 meters of row length.

Example 1:

If the planter shoe is 18 cm (7 inches) wide adjust the granular applicator to deliver $18 \times 2.5 = 45\text{g}$ of RIDOMIL GOLD 1G Fungicide per 100 meters of row length.

Example 2:

If the planter shoe is 10 cm (4 inches) wide adjust the granular applicator to deliver $10 \times 2.5 = 25\text{g}$ of RIDOMIL GOLD 1G Fungicide per 100 meters of row length.

Note: The amount of RIDOMIL GOLD 1G Fungicide applied per 100 meters of row length is based on the width of the planter shoe, not the number of rows of carrots planted into one planter shoe width.

Due to variations in the design of planters and the planting techniques used, the amount of RIDOMIL GOLD 1G Fungicide applied per hectare of field will vary widely. Growers can use the following formula to determine the amount of RIDOMIL GOLD 1G Fungicide required per hectare of field.

$$\frac{\text{width of planter shoe in cm}}{\text{spacing between rows in cm}} \times 25 \text{ kg} = \text{amount of RIDOMIL GOLD 1G Fungicide required to treat one hectare of field.}$$

Example 1:

Width of planter shoe = 18 cm: Spacing of rows = 36 cm

Amount of RIDOMIL GOLD 1G Fungicide required to treat one hectare of field
= $\frac{18}{36} \times 25 = 12.5$ kg

Example 2:

Width of planter shoe = 10 cm: Spacing of rows = 25 cm

Amount of RIDOMIL GOLD 1G Fungicide required to treat one hectare of field
= $\frac{10}{25} \times 25 = 10$ kg

HEAD LETTUCE:

Use RIDOMIL GOLD 1G Fungicide in head lettuce for control of damping-off or stunt diseases caused by *Pythium* spp. Apply RIDOMIL GOLD 1G Fungicide in the seed furrow at the rate of 25 kg per treated hectare at the time of planting. Ensure that the product is applied evenly with the seed in the seed furrow. For direct seeded head lettuce, calibrate the applicator to deliver 115 g of RIDOMIL GOLD 1G Fungicide per 100 metres of row. Do not use on transplanted lettuce. Make only one application per year.

COMPATIBILITY:

RIDOMIL GOLD 1G FUNGICIDE SHOULD NOT BE MIXED WITH ANY NEMATOCIDE, INSECTICIDE, HERBICIDE, FUNGICIDE, GROWTH REGULATOR, OR FERTILIZER.

NOTICE TO BUYER/USER:

The DIRECTIONS FOR USE for this product for the use described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop listed below.

Accordingly, the Buyer and User assume all liability arising, and agree to hold Syngenta Canada Inc. harmless, from any claims based on efficacy and/or phytotoxicity in connection with the use described below.

DIRECTIONS FOR USE:**GINSENG:**

Use RIDOMIL GOLD 1G Fungicide on ginseng for the control of Phytophthora root rot caused by *Phytophthora cactorum*. Apply RIDOMIL GOLD 1G Fungicide uniformly as a broadcast application, using a suitable granular spreader, to the mulched beds of ginseng. Apply at the rate of 31.25 kg of RIDOMIL GOLD 1G Fungicide per hectare. Make one application in the

spring just prior to the time the plants begin growing. Make a second application six weeks later and a third application six weeks after the second one. Do not apply within 9 days of harvest. Do not make more than 3 applications per year. Do not apply other products containing Metalaxyl-M and S-isomer to ginseng.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that RIDOMIL GOLD 1G Fungicide contains a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to RIDOMIL GOLD 1G 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 1G Fungicide or other Group 4 fungicides with different groups that control the same pathogens.

Avoid application of more than 3 (three) consecutive treatments of RIDOMIL GOLD 1G 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 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 sign of resistance development. Notify Syngenta Canada, Inc. if reduced sensitivity of the pathogen to RIDOMIL GOLD 1G Fungicide is suspected. If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and disease problems in your area.

For further information or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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