

RIDOMIL GOLD® GR SMARTCARTRIDGE® FUNGICIDE

For control of Phytophthora and Pythium diseases of cotton, peanuts, and soybeans.

Active Ingredient:

Mefenoxam*	2.50%
Other Ingredients:	97.50%
Total:	100.00%

*CAS No. 70630-17-0 and 69516-34-3

Ridomil Gold® GR SmartCartridge® Fungicide is a granular (GR) formulation containing 2.5 pounds of active ingredient mefenoxam per 100 pounds of fungicide.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See booklet for complete Precautionary Statements and Directions for Use.

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • 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 center or doctor for treatment advice.
EMERGENCY INFORMATION	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:	
For Medical Emergencies phone:	1-888-681-4261
For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC®	1-800-424-9300
For Product Use Information phone: AMVAC®	1-888-462-6822

EPA Reg. No. 100-798-5481

EPA Est.: 5481-AL-1

Net Contents: 13 Lbs Minimum



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 1-888-462-6822

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE) Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, or Viton™ \geq 14 mils.
- Shoes plus socks

User Safety Requirements

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.

Engineering Controls

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

This product is formulated into a SMARTCARTRIDGE system that meets the definition of a closed loading system as defined by the Worker Protection Standard for Agricultural Pesticides.

User Safety Recommendations

Users should:

- 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.

Environmental Hazards

DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

Groundwater Advisory

Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of agricultural use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL OR CROP INJURY.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, or Viton \geq 14 mils
- Shoes plus socks

PRODUCT INFORMATION

Ridomil Gold GR SmartCartridge Fungicide is a systemic fungicide which provides control of certain diseases caused by members of the Oomycete class of fungi on selected crops.

DO NOT use in nurseries, turf, or landscape plantings, unless specified in this label.

THIS LABEL IS FOR FIELD USE ONLY AND IS NOT PERMITTED FOR USE ON TRANSPLANT TRAYS, GREENHOUSES, LATH HOUSES, FLOAT HOUSES, HYDROPONIC PRODUCTION, OR IN BEDDING PLANT STRUCTURES.

RESISTANCE MANAGEMENT

MEFENOXAM	GROUP	4	FUNGICIDE
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Ridomil Gold GR SmartCartridge Fungicide contains a Group 4 class fungicide with a site-specific mode of action through inhibition of a fungal RNA polymerase I. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product must conform to resistance management strategies established for the crop and use area. Consult your local or state agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or mixing with products having different modes of action or limiting the total number of applications per season. Amvac Chemical Corporation encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label. Ridomil Gold GR SmartCartridge Fungicide must not be alternated with any fungicide to which resistance has already developed.

Any fungal population may contain individuals naturally resistant to Ridomil Gold GR SmartCartridge 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. Appropriate resistance- management strategies must be followed.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of Ridomil Gold GR SmartCartridge Fungicide or other Group 4 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with a fungicide from a different group that is equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which 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. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM guidance for specific crop and pathogens.
- For information or to report suspected resistance contact Amvac Chemical Corporation at 1-888-462-6822. You can also contact your pesticide distributor or university extension specialist to report resistance.

Maximum usage when applying both mefenoxam- and metalaxyl-containing products to the same crop within the same season: **DO NOT** apply more than the maximum yearly total for the active ingredient as stated on the label of the product containing the lowest yearly total on that crop.

Calculate the amount of Ridomil Gold GR SmartCartridge Fungicide needed for band treatment by the formula:

$$\frac{\text{band width in inches}}{\text{row spacing in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

APPLICATOR SETTINGS

It is important that the user calibrate each individual granular applicator before its use. The settings in the chart in the **Soybeans** section of the label **MUST ONLY BE USED AS A STARTING POINT**. Even after calibration, it is best to check the actual application rate under your operating conditions. Application rates can vary due to changing moisture conditions, equipment wear, and normal variation in product with density and particle size distribution.

APPLICATION EQUIPMENT

- Please refer to the SMARTCARTRIDGE operator's manual for detailed information on system operation and calibration procedures for systems capable of using the SMARTCARTRIDGE container.
- **DO NOT** attempt to open or tamper with the container.
- **DO NOT** attempt to repair the SMARTCARTRIDGE application system. If repairs are necessary, contact your sales representative or the manufacturer of the application system.

PRE-HARVEST INTERVALS

Unless otherwise stated in the directions for use for a specific crop, there is no pre-harvest interval for Ridomil Gold GR SmartCartridge Fungicide.

COTTON

Ridomil Gold GR SmartCartridge Fungicide provides control of seed rot and seedling diseases of cotton caused by *Pythium* spp. It does not control seedling diseases caused by other fungi.

Seed Rots and Seedling Diseases of Cotton Caused by *Pythium* spp.

Apply 1¼–2½ lb (0.03–0.06 lb ai) of product/13,000 linear ft of row (1½–3 oz (0.002– 0.005 lb ai) product/1,000 linear ft) as an in-furrow application at the time of planting. Mount the application tubes so the granules are mixed with the soil covering the seeds.

For broader spectrum disease control, Ridomil Gold GR SmartCartridge Fungicide can be applied with azoxystrobin as an in-furrow application.

USE RESTRICTIONS
1. Maximum Single Application Rate: 3 oz/1000 row ft (0.005 lb ai); equivalent to 2.45 lb/A (0.06 lb ai/A) on a 40 inch row spacing
2. Maximum Number of Applications: 1
3. Minimum Application Interval: NA
4. Maximum Annual Application Rate: 2.45 lb/A/year (0.06 lb ai/A/year mefenoxam) a. DO NOT exceed 0.125 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
5. Pre-Harvest Interval (PHI): NA

PEANUTS

Ridomil Gold GR SmartCartridge Fungicide is a systemic fungicide for use in control of seedling and pod diseases of peanuts caused by *Pythium* spp.

Seedling Diseases: Apply 6.5 oz (0.01 lb ai) product/1,000 linear ft in-furrow or in a 7- inch band (5 lb (0.13 lb ai) product/A on 42-inch rows) at the time of planting. With in- furrow applications, mount the application tubes so the granules are mixed with the soil covering the seed.

Pod Rot: Apply 13 oz (0.02 lb ai) product/1,000 linear ft of row in an 8 to 12-inch band (10 lb (0.25 lb ai) product/12,400 linear ft on 42-inch rows) over the rows at early pegging. For best results, an irrigation must follow the application.

Application Instructions: (1) **DO NOT** apply Ridomil Gold GR SmartCartridge Fungicide to wet foliage as foliar phytotoxicity and/or poor control may result. (2) Where pathogens other than *Pythium* spp. are present, use fungicides that control these diseases in combination with Ridomil Gold GR SmartCartridge Fungicide. (3) Fungicides including azoxystrobin may be used if the predominant pathogens are *Pythium* spp. and *Rhizoctonia* spp.

USE RESTRICTIONS
1. Maximum Single Application Rate: 10 lb/A (0.25 lb ai/A)
2. Maximum Number of Applications: 1
3. Minimum Application Interval: NA
4. Maximum Annual Application Rate: 10 lb/A/year (0.25 lb ai/A/year mefenoxam) a. DO NOT exceed 0.25 lb ai/A/year mefenoxam- and metalaxyl-containing products.
5. Pre-Harvest Interval (PHI): NA

SOYBEANS

Ridomil Gold GR SmartCartridge Fungicide is a systemic fungicide for use in the control of Phytophthora root and stem rot and Pythium damping-off. Ridomil Gold GR SmartCartridge Fungicide may be applied in a 7-inch band over the row at planting or in the seed furrow before the seeds are covered. The seed furrow application will provide more consistent results if rain is not expected before the seeds germinate.

For best results against Phytophthora root and stem rot, use Ridomil Gold GR SmartCartridge Fungicide with soybean varieties that have some tolerance to the races of Phytophthora present in the field. The high rate of Ridomil Gold GR SmartCartridge Fungicide must be used in areas with a history of severe Phytophthora damage. Under severe late season Phytophthora pressure, Ridomil Gold GR SmartCartridge Fungicide may not provide complete control.

Pythium and Phytophthora: For full-season control apply 6 oz (0.009 lb ai) product/1,000 linear ft of row in a 7-inch band over the row or as a **seed furrow** application at the time of planting. For early- to mid-season control only, apply 1½–3 oz (0.002-0.005 lb ai) product/1,000 linear ft of row in the **seed furrow**. When making seed furrow applications, position the applicator tubes so the granules are mixed with the soil covering the seed or are applied in a “T-band.” Use the following table to determine the amount of Ridomil Gold GR SmartCartridge Fungicide needed per acre based on the row spacing. Use the high rate in areas with a history of Phytophthora problems.

Application Rates Per Acre According to Row Spacing

Row Spacing	Linear Ft of Soybean Row Per Acre	Pounds of Ridomil Gold GR SmartCartridge Fungicide Needed Per Acre		
		Use rate (oz product/linear feet)		
		1 1/2 oz	3 oz	6 oz
38 in.	13,756	1.33 lb	2.60 lb	5.15 lb
36 in.	14,520	1.40 lb	2.75 lb	5.50 lb
30 in.	17,424	1.67 lb	3.25 lb	6.50 lb
24 in.	21,780	2.00 lb	4.10 lb	8.16 lb
20 in.	26,136	2.50 lb	4.90 lb	9.80 lb

USE RESTRICTIONS

1. **Maximum Single Application Rate:** 9.80 lb/A (0.25 lb ai/A)
2. **Maximum Number of Applications:** 1
3. **Minimum Application Interval:** NA
4. **Maximum Annual Application Rate:** 9.80 lb/A/year (0.25 lb ai/A/year mefenoxam)
 - a. **DO NOT** exceed 0.625 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
5. **Pre-Harvest Interval (PHI):** NA

REPLANTING

If replanting is necessary, additional applications of Ridomil Gold GR SmartCartridge Fungicide can be made, provided that the total amount of active ingredient in Ridomil Gold GR SmartCartridge Fungicide applied does not exceed the maximum specified on the product label for the particular crop.

ROTATION (PLANTBACK) RESTRICTIONS

DO NOT plant any crop which is not registered for use with the Ridomil Gold GR SmartCartridge Fungicide active ingredient in soil treated with this active ingredient unless a shorter interval is specified on the following list.

Rotation Crop	Planting Time From Last Ridomil Gold GR SmartCartridge Fungicide Application (Days)
Alfalfa (including birdsfoot trefoil)	0 Days
Almonds	
Apples	
Asparagus	
Avocados	
Blueberries	
Broccoli	
Brussels Sprouts	

Cabbage	
Cauliflower	
Chinese Broccoli (gai lon, white flowering broccoli)	
Chinese Cabbage (tight-heading varieties only)	
Citrus	
Cotton	
Cranberries	
Cucurbit Vegetables	
Corn	
Deciduous Fruits and Nuts*	
Eggplant	
Garlic	
Ginseng	
Grapes	
Hops	
Leafy vegetables (excluding Brassica)	
Legume vegetables (beans and peas - succulent and dried)	
Onions (dry bulb, green, and seed)	
Papaya	
Peanuts	
Peppers	
Pineapples	
Potatoes	
Raspberries	
Root and Tuber Vegetables	
Soybeans	
Spinach	
Stone fruits	
Strawberries	
Sugar Beets	
Tobacco	
Tomatoes	
Walnuts	
Wheat, Barley, Oats	360 Days
Crops not intended for food or feed	0 Days
All other crops intended for food or feed	360 Days

*These crops and other perennial crops may be planted immediately following last application of Ridomil Gold GR SmartCartridge Fungicide provided they will not bear harvestable fruit within 12 months.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in a dry place.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling/Return: Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. **DO NOT** DISCARD THE CONTAINER. **DO NOT** attempt to open or tamper with the container. All SMARTCARTRIDGE containers must be returned to the retailer that the product was purchased from.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

LIMITED WARRANTY AND DISCLAIMER

The Manufacturer warrants (a) that this product conforms to the specifications on this label; and (b) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests for effectiveness. Tests have not been made on all varieties of food crops and plants, or in all states, or under all conditions. THIS WARRANTY DOES NOT EXTEND TO THE USE OF THIS PRODUCT CONTRARY TO LABEL INSTRUCTIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE. Product storage, use and growing conditions are beyond Manufacturer's control.

THERE ARE NO WARRANTIES EXPRESS OR IMPLIED, OTHER THAN THOSE SET FORTH HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

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