

2000.11.30

AGRICULTURAL

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Bravo® Ridomil®
FUNGICIDE AGRICULTURAL
Twin-Pak™

For the control of Early Blight, Botrytis Vine Rot, Late Blight, Late Blight Tuber Rot and the suppression of Pythium Leak and Pink Rot in Potatoes

WARNING: Causes severe eye damage.

READ THE ENTIRE LABEL AND PAMPHLET BEFORE USING

WARNING POISON

KEEP OUT OF THE REACH OF CHILDREN

GUARANTEE: Chlorothalonil 500 g/L Metalaxyl 240 g/L

REGISTRATION NO. 24125 PEST CONTROL PRODUCTS ACT.

Harmful if swallowed. Avoid inhalation of spray mist. Avoid contact with skin and eyes. Causes severe eye damage. Avoid contamination of food, feed and domestic or irrigation water supplies, lakes, streams and ponds. Do not re-use empty container; see DISPOSAL instructions elsewhere on this label.

The BRAVO in this container may cause temporary allergic side effects, characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas.

ZENECA Agro,
a business of ZENECA Corp.
250-3115 12th Street N.E.
Calgary, AB T2E 7J2

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PRECAUTIONS

Wear full protective clothing (long sleeved shirt and long

pants, coveralls, chemical resistant gloves, rubber boots) during mixing, loading, application, clean-up and repair; and a respirator, goggles or a face shield during mixing and loading.

BRAVO/RIDOMIL Twin-Pak is toxic to fish. Do not contaminate lakes streams or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply where runoff is likely to occur. Do not apply when weather conditions favour drift from treated areas. 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. Store in a cool space away from feed or foodstuffs. Protect from excessive heat. Do not eat, drink or smoke during mixing or application.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates and marine/estuarine organisms. Runoff from treated areas may be hazardous to aquatic organisms in neighbouring areas. DO NOT apply directly to water.

Keep out of lakes, streams, and ponds. DO NOT contaminate water by cleaning of equipment, or disposal of wastes. DO NOT apply where runoff is likely to occur. DO NOT apply when weather conditions favour drift from areas being treated.

A buffer zone of 100 metres for aerial applications and 15 metres for ground applications to protect surface water bodies including lakes, streams, ponds or sloughs from drift must be observed. For aerial application, use mechanical flaggers only. Provincial buffer zones must be observed.

FIRST AID

In case of eye contact, flush with plenty of water for 15 minutes and get medical attention or contact a poison control centre immediately. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, get medical attention or contact a poison control centre. If swallowed, give water or milk, if conscious, and get medical attention or contact a poison control centre. **Do not induce vomiting.** If inhaled, move to fresh air; if not breathing, give artificial respiration and get medical attention. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically. If swallowed, probable mucosal damage may contraindicate the use of gastric lavage. In the event of an allergic reaction the use of antihistamines and steroid creams and/or systemic steroids are indicated. If in eyes, specialized ophthalmologic attention may be required.

EMERGENCY TELEPHONE NUMBER

All hours, 1-800-327-8633 (FASTMED), **ONLY** for health and environmental information.

DISPOSAL

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 container unsuitable for further use. If there is no container collection site in your area, dispose of container in accordance with provincial requirements.

For information on the 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.

PRODUCT INFORMATION

BRAVO/RIDOMIL Twin-Pak is a combination of a systemic and contact fungicides for the control of Early Blight, Botrytis Vine Rot, Late Blight, Late Blight Tuber Rot and suppression of Pythium Leak and Pink Rot in potatoes. Slowly invert BRAVO/RIDOMIL Twin-Pak several times before pouring into the spray tank.

Do not tank mix BRAVO/RIDOMIL Twin-Pak with a top killer. Top killers prevent the systemic activity of BRAVO/RIDOMIL Twin-Pak.

NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product in an unsafe manner.

USE LIMITATIONS:

Metalaxyl is a systemic fungicide having a specific mode of action and could be subject to development of resistant strains of fungi. Development of resistance cannot be predicted. Therefore, Zeneca Agro cannot assume liability for crop damage resulting from resistant strains of fungi. If treatment is not effective following the use of BRAVO/RIDOMIL Twin-Pak as recommended, a resistant strain of fungi may be present. If the treatment is ineffective due to the presence of a metalaxyl resistant strain of fungi, neither BRAVO/RIDOMIL Twin-Pak nor any other fungicide with a similar mode of action will effectively control that disease. Consideration should then be given to the prompt use of other types of suitable fungicides. Consult with the Provincial disease specialist for guidance in your particular area. Do not use BRAVO/RIDOMIL Twin-Pak for disease control in greenhouses.

SPRAYER INFORMATION:

Use conventional spray equipment which provides adequate and uniform coverage. Spray screens should be no finer than 50 mesh. Ensure that the by-pass line discharges at the bottom of the tank to minimize foaming. Maintain pressure at no less than 275 kPa to ensure good foliage penetration and coverage.

1. Spray equipment should be thoroughly flushed with clean water and drained before and after application of BRAVO/RIDOMIL Twin-Pak.
2. Fill the spray tank one-half full with clean water.
3. With the agitation system engaged, add the required number of jugs of BRAVO/RIDOMIL Twin-Pak to the spray tank. Do not attempt to measure from this jug. The entire contents must be added to the spray tank or an improper mixture will result.
4. Complete filling the spray tank with water while maintaining constant agitation.

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

AERIAL APPLICATION:

1. Apply BRAVO/RIDOMIL Twin-Pak in a minimum of 50 L of water/ha.
2. Adjust nozzles to provide a medium droplet size of 200-

- 400 microns.
3. To ensure proper coverage and distribution and to minimize drift, check to see that swath width and droplet size are adequate, and that wind velocities are low.
 4. A buffer zone of 100 meters for aerial applications and 15 meters for ground applications to protect surface waterbodies from drift should be observed. Provincial buffer zones that are greater than the above buffer zone should be respected.
 5. Use mechanical flaggers only.

Additional Guidance for Aerial Application

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *Basic Knowledge Requirements for Pesticide Education in Canada: Applicator Core and Aerial Module*, developed by CAPCO.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when winds are gusty. Refer to ENVIRONMENTAL PRECAUTIONS for additional details.

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a close system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing

ground boom label.

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

DIRECTIONS FOR USE

DO NOT MAKE MORE THAN A TOTAL OF THREE APPLICATIONS OF BRAVO/RIDOMIL TWIN-PAK PER SEASON REGARDLESS OF THE DISEASE BEING CONTROLLED. EARLY BLIGHT, BOTRYTIS VINE ROT, LATE BLIGHT, LATE BLIGHT TUBER ROT, PYTHIUM LEAK AND PINK ROT

It is recommended that BRAVO/RIDOMIL Twin-Pak be used within an Integrated Pest Management Program.

Apply BRAVO/RIDOMIL Twin-Pak at the rate of one jug/4 ha (10 Ac). For ground application apply in sufficient water to ensure thorough coverage of foliage. Spray volumes will range from 225 to 1600 litres per hectare depending on amount of foliage. For aerial application, apply BRAVO/RIDOMIL Twin-Pak in a minimum of 50 L of water per hectare. Begin preventative applications early in the season when conditions are favourable for disease (before infection) but no later than when the plant foliage meets within the row uniformly across the field. Make up to three applications of BRAVO/RIDOMIL Twin-Pak at 14-day intervals. The labelled rate of a registered contact fungicide should be applied between the BRAVO/RIDOMIL Twin-Pak applications. Following the last application of BRAVO/RIDOMIL Twin-Pak, apply the labelled rate of a registered contact fungicide at its recommended timing throughout the remainder of the season. Consult your local potato specialist for disease forecasting and potato vine maturity advice in your area.

NOTE: If applications of BRAVO/RIDOMIL Twin-Pak are being made for control of foliar diseases, additional applications for tuber disease control are not needed.

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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RIDOMIL is a registered trademark of Ciba-Geigy Canada Limited
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