

98.02.23

((LABEL))

RIDOMIL7 /BRAVO7 Twin-PakJ

FUNGICIDE

AGRICULTURAL

NET CONTENTS: 11.33 L

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

GUARANTEE:

Chlorothalonil 500g/L

Metalaxyl 240 g/L

READ THE ENTIRE LABEL AND PAMPHLET BEFORE USING

KEEP OUT OF THE REACH OF CHILDREN. 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.

REGISTRATION NO.: 24111  
PEST CONTROL PRODUCTS ACT

WARNING POISON

WARNING: Causes severe eye damage. 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.

Novartis Crop Protection Canada Inc.  
140 Research Lane  
Research Park, University of Guelph  
Guelph, Ontario  
N1G 4Z3

((PAMPHLET))

**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 under unsafe conditions.

**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.

**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.

**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.

**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. RIDOMIL/BRAVO 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.

#### **DECONTAMINATION AND DISPOSAL:**

1. Rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, and the cleanup of spills, contact the Provincial Regulatory Agency or the manufacturer.

**IN CASE OF AN EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1-800-267-6351**

#### **GENERAL INFORMATION**

RIDOMIL/BRAVO Twin-Pak is a combination of a systemic and contact fungicide for use in a preventative disease control program for Early Blight, Botrytis Vine Rot, Late Blight and Late Blight Tuber Rot and suppression of Pythium Leak and Pink Rot in potatoes. Slowly invert RIDOMIL/BRAVO Twin-Pak several times before pouring into spray tank. Do not tank mix RIDOMIL/BRAVO Twin-Pak with a top killer. Top killers prevent the systemic activity of RIDOMIL/BRAVO Twin-Pak.

#### **USE LIMITATIONS.**

Experience has shown that strains of Phytophthora resistant to metalaxyl may develop. Failure to control the disease will result in crop damage and/or yield losses in the field or in storage. Since the occurrence of resistance cannot be foreseen, Novartis Crop Protection Canada Inc. accepts no responsibility for any loss of, or damage to crops in the field or in storage, resulting from the failure of RIDOMIL/BRAVO Twin-Pak to control the resistant Phytophthora strains. If disease appears in the field, consult the Government Disease Specialist immediately. Do not use

RIDOMIL/BRAVO Twin-Pak for disease control in greenhouses.

**APPLICATION INFORMATION:**

1. Spray equipment should be thoroughly flushed with clean water and drained before and after application of RIDOMIL/BRAVO 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 RIDOMIL/BRAVO 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.

**GROUND APPLICATION:**

1. Use well-maintained and calibrated conventional spray equipment which provides adequate and uniform coverage.
2. Spray screens should be no finer than 50 mesh.
3. Ensure that the by-pass line discharges at the bottom of the tank to minimize foaming.
4. Maintain pressure at no less than 275 kPa to ensure good foliage penetration and coverage.
5. For ground application do not apply within 15 meters of surface waterbodies. Provincial buffer zones that are greater than the above buffer zone should be respected.

**AERIAL APPLICATION:**

1. Apply RIDOMIL/BRAVO 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. For aerial applications, a buffer zone of 100 meters between the application zone and surface waterbodies should be observed. Provincial buffer zone that are greater than the above buffer zone should be respected.

DIRECTIONS FOR USE:

DO NOT MAKE MORE THAN THREE APPLICATIONS OF RIDOMIL/BRAVO Twin-Pak PER SEASON REGARDLESS OF THE DISEASE BEING TREATED.  
EARLY BLIGHT, BOTRYTIS VINE ROT, LATE BLIGHT, LATE BLIGHT TUBER ROT, PYTHIUM LEAK AND PINK ROT

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

Apply RIDOMIL/BRAVO 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 RIDOMIL/BRAVO 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. Apply a second and third application of RIDOMIL/BRAVO Twin-Pak at 14-day intervals. The labelled rate of a registered contact fungicide should be applied 7-days after each RIDOMIL/BRAVO Twin-Pak application. Following the last application of RIDOMIL/BRAVO Twin-Pak, apply the labelled rate of a registered contact fungicide at its recommended timing throughout the remainder of the season. Excessive tuber bruising or wounding during harvest will reduce tuberization and increase the chances for development of storage disease problems. Consult your local potato specialist for disease forecasting and potato vine maturity advice in your area.

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

**7** RIDOMIL is a registered trademark of Novartis Crop Protection Canada Inc.

**7** BRAVO is a registered trademark of ISK Biosciences Limited

**J** Twin-Pak is a trademark of Novartis Crop Protection Canada Inc.

((LABEL))

RIDOMIL 7 /BRAVO Twin-PakJ

FUNGICIDE

AGRICULTURAL

NET CONTENTS:3.93 L

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

GUARANTEE:

Chlorothalonil 500g/L  
Metalaxyl 240 g/L

READ THE ENTIRE LABEL AND PAMPHLET BEFORE USING

KEEP OUT OF THE REACH OF CHILDREN. 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.

REGISTRATION NO.: 24,111  
PEST CONTROL PRODUCTS ACT

WARNING POISON

WARNING: Causes severe eye damage. 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.

Novartis Crop Protection Canada Inc.  
140 Research Lane  
Research Park, University of Guelph  
Guelph, Ontario  
N1G 4Z3

LABEL

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.

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.

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.

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.

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. RIDOMIL/BRAVO 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.

DECONTAMINATION AND DISPOSAL:

1. Rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, and the cleanup of spills, contact the Provincial Regulatory Agency or the manufacturer.

**IN CASE OF AN EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1-800-267-6351**

7RIDOMIL is a registered trademark of Novartis Crop Protection Canada Inc.

7BRAVO is a registered trademark of ISK Biosciences Limited

JTwin-Pak is a trademark of Novartis Crop Protection Canada Inc.

((PAMPHLET))

RIDOMIL7 /BRAVO7 Twin-PakJ

FUNGICIDE

AGRICULTURAL

NET CONTENTS: 11.33 L

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

GUARANTEE:

Chlorothalonil 500g/L  
Metalaxyl 240 g/L

READ THE ENTIRE LABEL AND PAMPHLET BEFORE USING



KEEP OUT OF THE REACH OF CHILDREN. 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.

REGISTRATION NO.: 24,111  
PEST CONTROL PRODUCTS ACT

WARNING            POISON

WARNING: Causes severe eye damage. 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.

Novartis Crop Protection Canada Inc.  
140 Research Lane  
Research Park, University of Guelph  
Guelph, Ontario  
N1G 4Z3

PAMPHLET

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.

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.

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.

**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.

**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. RIDOMIL/BRAVO 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.

**DECONTAMINATION AND DISPOSAL:**

1. Rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, and the cleanup of spills, contact the Provincial Regulatory Agency or the manufacturer.

**IN CASE OF AN EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1-800-267-6351**

## GENERAL INFORMATION

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

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

## USE LIMITATIONS.

Experience has shown that strains of Phytophthora resistant to metalaxyl may develop. Failure to control the disease will result in crop damage and/or yield losses in the field or in storage. Since the occurrence of resistance cannot be foreseen, Novartis Crop Protection Canada Inc. accepts no responsibility for any loss of, or damage to crops in the field or in storage, resulting from the failure of RIDOMIL/BRAVO Twin-Pak to control the resistant Phytophthora strains. If disease appears in the field, consult the Government Disease Specialist immediately. Do not use RIDOMIL/BRAVO Twin-Pak for disease control in greenhouses.

## APPLICATION INFORMATION:

1. Spray equipment should be thoroughly flushed with clean water and drained before and after application of RIDOMIL/BRAVO 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 RIDOMIL/BRAVO 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.

## GROUND APPLICATION:

1. Use well-maintained and calibrated conventional spray equipment which provides adequate and uniform coverage.
2. Spray screens should be no finer than 50 mesh.
3. Ensure that the by-pass line discharges at the bottom of the tank to minimize foaming.
4. Maintain pressure at no less than 275 kPa to ensure good foliage penetration and coverage.
5. For ground application do not apply within 15 meters of surface waterbodies. Provincial buffer zones that are greater than the above buffer zone should be respected.

#### AERIAL APPLICATION:

1. Apply RIDOMIL/BRAVO 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. For aerial applications, a buffer zone of 100 meters between the application zone and surface waterbodies should be observed. Provincial buffer zone that are greater than the above buffer zone should be respected.

#### DIRECTIONS FOR USE:

DO NOT MAKE MORE THAN THREE APPLICATIONS OF RIDOMIL/BRAVO Twin-Pak PER SEASON REGARDLESS OF THE DISEASE BEING TREATED.

EARLY BLIGHT, BOTRYTIS VINE ROT, LATE BLIGHT, LATE BLIGHT TUBER ROT, PYTHIUM LEAK AND PINK ROT

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

Apply RIDOMIL/BRAVO Twin-Pak at the rate of one jug/1.4 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 RIDOMIL/BRAVO 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. Apply a second and third application of RIDOMIL/BRAVO Twin-Pak at 14-day intervals. The labelled rate of a registered contact fungicide should be applied 7-days after each RIDOMIL/BRAVO Twin-Pak application. Following the last application of RIDOMIL/BRAVO Twin-Pak, apply the labelled rate of a registered contact fungicide at its recommended timing throughout the remainder of the season. Excessive tuber bruising or wounding during harvest will reduce suberization and increase the chances for development of storage disease problems. Consult your local potato specialist for disease forecasting and potato vine maturity advice in your area.

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

7 RIDOMIL is a registered trademark of Novartis Crop Protection Canada Inc.

7 BRAVO is a registered trademark of ISK Biosciences Limited

J Twin-Pak is a trademark of Novartis Crop Protection Canada Inc.

\*\*\*\*\*

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.

+))