

[container Label]



Raxil PRO Shield

Insecticide and Fungicide

GROUP	3 4	FUNGICIDE
GROUP	4A	INSECTICIDE

A seed treatment fungicide and insecticide for seed and seedling protection against certain seed- and soil-borne diseases and insect pests on wheat, barley and oats.

SUSPENSION COMMERCIAL-AGRICULTURAL

ACTIVE INGREDIENT:	imidacloprid	92.0 g/L
	prothioconazole	15.3 g/L
	metalaxyl	6.2 g/L
	tebuconazole	3.0 g/L

Contains 1,2-benzisothiazolin-3-one at 0.064%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0017%, and 2-methyl-4-isothiazolin-3-one at 0.00053%, as preservatives.

REGISTRATION NO. 34245 PEST CONTROL PRODUCTS ACT

CAUTION – EYE IRRITANT
POTENTIAL SKIN SENSITIZER

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

PROTECT FROM FREEZING
AGITATE WELL BEFORE USING

NET CONTENTS: 0.946 L – 1000 L

ALL SEED TREATED WITH THIS PRODUCT MUST BE CONSPICUOUSLY COLOURED
For barley, oats and wheat: On-farm or commercial seed treatment (facilities and mobile treaters)
with open or closed transfer treatment equipment is permitted.

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd. SE
Calgary, AB T2C 3G3

For product information, call: 1-888-283-6847
In case of spills, poisoning, fire or other emergencies,
call: 1-800-334-7577 (24 hours a day)

GENERAL INFORMATION

Raxil PRO Shield is a seed treatment containing the fungicides prothioconazole, tebuconazole and metalaxyl, and the insecticide imidacloprid. Raxil PRO Shield provides protection from seed, seedling and soil-borne diseases, and soil insect pests on labeled crops.

PRECAUTIONS:

- KEEP RAXIL PRO SHIELD OUT OF REACH OF CHILDREN.
- KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS.
- Harmful if swallowed, inhaled, or absorbed through skin. May irritate eyes. Avoid contact with eyes. Potential skin sensitizer. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin and breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.
- DO NOT apply in a way that this product will contact workers or other persons. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.
- Follow the personal protective equipment (PPE) and restriction requirements for the appropriate task and scenario:

Seed Type	Tasks	PPE/Engineering Controls
For On-Farm and Commercial Seed Treatment (including facility workers and mobile treaters)		
Barley, oats and wheat	Treating, cleaning and repairing	Use an open- or closed-transfer system. When mixing, loading, treating, calibrating, cleaning and repairing wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.
	Bagging	When bagging, sewing and stacking bagged treated seed, or transferring seed to a storage bin, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a suitable NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.
For Planting and Handling Treated Seed		
Barley, oats and wheat	Planting	When handling and planting treated seed, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Use an open- or closed-cab tractor when planting. Gloves are not required within a closed cab.

FIRST AID:

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 in eyes: Hold eye open and rinse slowly and gently with water for 15 to 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 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.

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 if this product is ingested. Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

- Toxic to birds, small wild mammals and aquatic organisms.
- Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites).
- Toxic to bees. Bees can be exposed to product residues in flowers, leaves, pollen and/or nectar resulting from seed treatment applications. When used according to label directions minimal exposure or risk is expected. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the “Pollinator Protection and Responsible Use of Treated Seed-Best Management Practices” on the Health Canada webpage on pollinator protection at www.canada.ca/pollinators. Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies.
- Any spilled or exposed seeds and dust must be incorporated into the soil or otherwise cleaned-up from the soil surface.
- 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 when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.
- 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.

STORAGE:

Store away from other pesticides, fertilizer, food or feed. Store in a cool, dry place and avoid excessive heat. Keep container closed. Agitate well before using. To prevent contamination, store this product away from food or feed.

DISPOSAL:

FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the 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.

FOR 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 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 the container in accordance with provincial requirements.

FOR RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

FOR REFILLABLE CONTAINERS:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

TRIPLE RINSE INSTRUCTIONS (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY): This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment. Follow these steps for rinsing of containers:

1. Transfer Raxil PRO Shield from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the Raxil PRO Shield and rinse water in the applicator tank prior to use.

CAUTION: Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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 OF TREATED SEED:

Dispose of all excess treated seed. Leftover treated seed may be buried away from water sources in accordance with local requirements. Do not dispose of seed by double-sowing in headlands. Dispose of seed packaging in accordance with local requirements. DO NOT re-use bags from treated seed to handle food or feed products.

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.

[Booklet label]

Raxil PRO Shield

Insecticide and Fungicide

GROUP	3 4	FUNGICIDE
GROUP	4A	INSECTICIDE

A seed treatment fungicide and insecticide for seed and seedling protection against certain seed- and soil-borne diseases and insect pests on wheat, barley and oats.

SUSPENSION

COMMERCIAL-AGRICULTURAL

ACTIVE INGREDIENT:	imidacloprid	92.0 g/L
	prothioconazole	15.3 g/L
	metalaxyl	6.2 g/L
	tebuconazole	3.0 g/L

Contains 1,2-benzisothiazolin-3-one at 0.064%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0017%, and 2-methyl-4-isothiazolin-3-one at 0.00053%, as preservatives.

REGISTRATION NO. 34245 PEST CONTROL PRODUCTS ACT

CAUTION – EYE IRRITANT
POTENTIAL SKIN SENSITIZER

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

PROTECT FROM FREEZING
AGITATE WELL BEFORE USING

NET CONTENTS: 0.946 L – 1000 L

ALL SEED TREATED WITH THIS PRODUCT MUST BE CONSPICUOUSLY COLOURED
For barley, oats and wheat: On-farm or commercial seed treatment (facilities and mobile treaters)
with open or closed transfer treatment equipment is permitted.

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd. SE
Calgary, AB T2C 3G3

For product information, call: 1-888-283-6847

In case of spills, poisoning, fire or other emergencies,
call: 1-800-334-7577 (24 hours a day)

Table of Contents:	Section :
GENERAL INFORMATION	1. The Product
SAFETY AND HANDLING	2. Precautions, Protective Clothing and Equipment
	3. First Aid and Toxicological Information
	4. Environmental Precautions and Information
	5. Storage
	6. Disposal
	7. Notices
DIRECTIONS FOR USE	8. Pests Controlled
	9. Uses
	10. Application Cautions
	11. Use Limitations
	12. Resistance Management Recommendations

GENERAL INFORMATION

Section 1: The Product

Raxil PRO Shield is a seed treatment containing the fungicides prothioconazole, tebuconazole and metalaxyl, and the insecticide imidacloprid. Raxil PRO Shield provides protection from seed, seedling and soil-borne diseases, and soil insect pests on labeled crops.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS.
- Harmful if swallowed, inhaled, or absorbed through skin. May irritate eyes. Avoid contact with eyes. Potential skin sensitizer. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin and breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.
- DO NOT apply in a way that this product will contact workers or other persons. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.
- Follow the personal protective equipment (PPE) and restriction requirements for the appropriate task and scenario:

Seed Type	Tasks	PPE/Engineering Controls
For On-Farm and Commercial Seed Treatment (including facility workers and mobile treaters)		
Barley, oats and wheat	Treating, cleaning and repairing	Use an open- or closed-transfer system. When mixing, loading, treating, calibrating, cleaning and repairing wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.
	Bagging	When bagging, sewing and stacking bagged treated seed, or transferring seed to a storage bin, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a suitable NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.
For Planting and Handling Treated Seed		
Barley, oats and wheat	Planting	When handling and planting treated seed, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.
		Use an open- or closed-cab tractor when planting. Gloves are not

		required within a closed cab.
--	--	-------------------------------

Section 3: First Aid and Toxicological Information

FIRST AID:

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 in eyes: Hold eye open and rinse slowly and gently with water for 15 to 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 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.

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 if this product is ingested. Treat symptomatically.

Section 4: Environmental Precautions and Information

ENVIRONMENTAL PRECAUTIONS:

- Toxic to birds, small wild mammals and aquatic organisms.
- Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites).
- Toxic to bees. Bees can be exposed to product residues in flowers, leaves, pollen and/or nectar resulting from seed treatment applications. When used according to label directions minimal exposure or risk is expected. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the “Pollinator Protection and Responsible Use of Treated Seed-Best Management Practices” on the Health Canada webpage on pollinator protection at www.canada.ca/pollinators. Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies.
- Any spilled or exposed seeds and dust must be incorporated into the soil or otherwise cleaned-up from the soil surface.
- 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 when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

- 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.

Section 5: Storage

Store away from other pesticides, fertilizer, food or feed. Store in a cool, dry place and avoid excessive heat. Keep container closed. Agitate well before using. To prevent contamination, store this product away from food or feed.

Section 6: Disposal

FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the 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.

FOR 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 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 the container in accordance with provincial requirements.

FOR RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

FOR REFILLABLE CONTAINERS:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

TRIPLE RINSE INSTRUCTIONS (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY): This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment. Follow these steps for rinsing of containers:

1. Transfer Raxil PRO Shield from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the Raxil PRO Shield and rinse water in the applicator tank prior to use.

CAUTION: Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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 OF TREATED SEED:

Dispose of all excess treated seed. Leftover treated seed may be buried away from water sources in accordance with local requirements. Do not dispose of seed by double-sowing in headlands. Dispose of seed packaging in accordance with local requirements. DO NOT re-use bags from treated seed to handle food or feed products.

<h2>Section 7: Notices</h2>

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.

DIRECTIONS FOR USE

Raxil PRO Shield is a ready-to-use seed treatment formulation for use in commercial seed treatment operations, including mobile treaters, and for on-farm treatment with conventional seed treating equipment which can accurately meter, mix and apply flowable seed treatment formulations. Allow seeds to dry before bagging, storing or seeding. Uniform application to seed is necessary to ensure best disease protection and seed safety.

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.

Section 8: Pests Controlled

Raxil PRO Shield is a seed treatment containing the fungicides prothioconazole, tebuconazole and metalaxyl, and the insecticide imidacloprid. Raxil PRO Shield provides protection from the listed seed, seedling and soil-borne diseases, and soil insect pests on labeled crops.

Section 9: Uses

BARLEY:

PEST	APPLICATION RATE ¹	DIRECTIONS
<p>Diseases Controlled:</p> <p>Seed rot, pre-emergent damping-off caused by seed- and soil-borne <i>Fusarium spp.</i>, <i>Cochliobolus sativus</i> and soil-borne <i>Pythium spp.</i></p> <p>Seedling blight caused by seed-borne <i>Fusarium spp.</i>, <i>Cochliobolus sativus</i> and soil-borne, <i>Fusarium spp.</i> and <i>Pythium spp.</i></p> <p>Post-emergent damping-off caused by seed- and soil-borne <i>Fusarium spp.</i> and <i>Cochliobolus sativus</i></p> <p>Seed rot, pre-emergent damping-off, post-emergent damping-off and seedling blight caused by seed-borne <i>Aspergillus spp.</i></p> <p>True loose smut (<i>Ustilago tritici</i>)</p> <p>Covered smut (<i>Ustilago nuda</i>)</p> <p>False loose smut (<i>Ustilago avenae</i>)</p> <p>Barley leaf stripe (<i>Pyrenophora graminea</i>)</p>	<p>Apply 325 mL per 100 kg of seed</p>	<p>Use only in treating equipment which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber.</p> <p>Uniform application to seed is necessary to ensure best disease protection and seed safety.</p> <p>Do not apply any subsequent application of a Group 4 Insecticide (i.e., in-furrow or foliar application) following treatment with Raxil PRO Shield.</p>
<p>Diseases Suppressed:</p> <p>Root and Crown rot caused by seed- and soil-borne <i>Fusarium spp.</i></p> <p>Common root rot caused by seed- and soil-borne <i>Cochliobolus sativus</i></p> <p>Seedling blight caused by seed-borne <i>Penicillium spp.</i></p> <p>Seed rot, pre-emergent damping off and root rot caused by <i>Rhizoctonia solani</i></p>		
<p>Early-season protection against crop stand injury caused by:</p> <p>Wireworm</p> <p>Larvae of European chafer and Japanese beetle</p>		

OATS:

PEST	APPLICATION RATE ¹	DIRECTIONS		
<p>Diseases Controlled:</p> <p>Seed rot, pre-emergent damping-off caused by seed- and soil-borne <i>Fusarium spp.</i>, <i>Cochliobolus sativus</i> and soil-borne <i>Pythium spp.</i></p> <p>Seedling blight caused by seed-borne <i>Fusarium spp.</i>, <i>Cochliobolus sativus</i> and soil-borne, <i>Fusarium spp.</i> and <i>Pythium spp.</i></p> <p>Post-emergent damping-off caused by seed- and soil-borne <i>Fusarium spp.</i> and <i>Cochliobolus sativus</i></p> <p>Seed rot, pre-emergent damping-off, post-emergent damping-off and seedling blight caused by seed-borne <i>Aspergillus spp.</i></p> <p>Loose smut (<i>Ustilago avenae</i>)</p> <p>Covered smut (<i>Ustilago segetum</i>)</p>	<p>Apply 325 mL per 100 kg of seed</p>	<p>Use only in treating equipment which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber.</p> <p>Uniform application to seed is necessary to ensure best disease protection and seed safety.</p> <p>Do not apply any subsequent application of a Group 4 Insecticide (i.e., in-furrow or foliar application) following treatment with Raxil PRO Shield.</p>		
<p>Diseases Suppressed:</p> <p>Root and Crown rot caused by seed- and soil-borne <i>Fusarium spp.</i></p> <p>Common root rot caused by seed- and soil-borne <i>Cochliobolus sativus</i></p> <p>Seedling blight caused by seed-borne <i>Penicillium spp.</i></p> <p>Seed rot, pre-emergent damping off and root rot caused by <i>Rhizoctonia solani</i></p>				
<p>Early-season protection against crop stand injury caused by:</p> <p>Wireworm</p> <p>Larvae of European chafer and Japanese beetle</p>				

WHEAT:

PEST	APPLICATION RATE ¹	DIRECTIONS
<p>Diseases Controlled:</p> <p>Seed rot, pre-emergent damping-off caused by seed- and soil-borne <i>Fusarium spp.</i>, <i>Cochliobolus sativus</i> and soil-borne <i>Pythium spp.</i></p> <p>Seedling blight caused by seed-borne <i>Fusarium spp.</i>, <i>Cochliobolus sativus</i> and soil-borne, <i>Fusarium spp.</i> and <i>Pythium spp.</i></p> <p>Post-emergent damping-off caused by seed- and soil-borne <i>Fusarium spp.</i> and <i>Cochliobolus sativus</i></p> <p>Seed rot, pre-emergent damping-off, post-emergent damping-off and seedling blight caused by seed-borne <i>Aspergillus spp.</i></p> <p>Loose smut (<i>Ustilago avenae</i>)</p> <p>Common bunt (<i>Tilletia tritici</i> and <i>Tilletia laevis</i>)</p>	<p>Apply 325 mL per 100 kg of seed</p>	<p>Use only in treating equipment which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber.</p> <p>Uniform application to seed is necessary to ensure best disease protection and seed safety.</p> <p>Do not apply any subsequent application of a Group 4 Insecticide (i.e., in-furrow or foliar application) following treatment with Raxil PRO Shield.</p>
<p>Diseases Suppressed:</p> <p>Root and Crown rot caused by seed- and soil-borne <i>Fusarium spp.</i></p> <p>Common root rot caused by seed- and soil-borne <i>Cochliobolus sativus</i></p> <p>Seedling blight caused by seed-borne <i>Penicillium spp.</i></p> <p>Seed rot, pre-emergent damping off and root rot caused by <i>Rhizoctonia solani</i></p>		
<p>Early-season protection against crop stand injury caused by:</p> <p>Wireworm</p> <p>Larvae of European chafer and Japanese beetle</p>		

¹ The rate of Raxil PRO Shield delivers 30 g imidacloprid per 100 kg seed, and is intended for when high insect infestation pressures are anticipated. When low-to-moderate insect pressures are anticipated, consider using other product options that deliver a lower registered rate of imidacloprid.

Section 10: Application Cautions

SEED QUALITY: Lab and field studies have shown that Raxil PRO Shield treated seed can be stored without loss in germination or disease performance. Many seed types are prone to mechanical damage during seed handling, and a reduction in germination within a seed lot can occur should handling cause seed damage irrespective of seed treatment application. Raxil PRO Shield-treated or untreated seed may drop in germination with age and germination drops are accelerated under adverse storage conditions or in seed with a high level of mechanical damage. Use handling equipment designed to minimize mechanical damage when moving seed. Due to seed quality and seed storage conditions beyond the control of Bayer CropScience, no claims are made to guarantee the germination of carry-over seed or propagating materials for all crop seed. Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, may result in reduced germination and/or reduction of seed and seedling vigour. Treat a small quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of seed before committing the total seed lot to a selected seed treatment.

COLOURATION OF TREATED SEED: This product contains a colorant which will adequately color the treated seed. However, users are responsible for ensuring that the treated seed has an unnatural color. If the colorant contained in the formulation does not color the seed adequately, additional colorant must be added to the mixture while treating the seed. Regulations pertaining to coloration of treated seed enforced under the *Seeds Act* must be strictly adhered to when using this product.

Section 11: Use Limitations

USE RESTRICTIONS:

- Treated seed must not be used for food or feed.
- DO NOT graze or feed livestock on treated areas for four weeks after planting.

LABELLING TREATED SEED:

All containers or packages containing treated wheat, oat and barley seed for sale or use in Canada must be labelled with the following information:

- KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS.
- This seed has been treated with Raxil PRO Shield containing prothioconazole, tebuconazole, metalaxyl and imidacloprid.
- When handling and planting treated seed, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear.
- DO NOT use for feed, food or oil processing.
- Store away from feeds and other foodstuffs.
- Toxic to birds and small wild mammals.
- Toxic to bees. Dust generated during planting of treated seed may be harmful to bees and

other pollinators. To help minimize the dust generated during planting, refer to the “Pollinator Protection and Responsible Use of Treated Seed- Best Management Practices” on the Health Canada webpage on pollinator protection at www.canada.ca/pollinators . Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies.

- Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.
- Dispose of all excess treated seed. Leftover treated seed may be buried away from water sources in accordance with local requirements. Do not dispose of seed by double-sowing in headlands.
- Broadcast seeding is prohibited.
- Closed cabs must be used for planting commercially treated and bagged seeds.
- DO NOT plant treated seeds by hand.
- DO NOT graze or feed livestock on treated areas for four weeks after planting.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or www.cropscience.bayer.ca.

Section 12: Resistance Management Recommendations

For resistance management, please note that Raxil PRO Shield contains Group 3 and Group 4 fungicides and a Group 4A insecticide. Any fungal or insect populations may contain individuals naturally resistant to Raxil PRO Shield and other Group 3 and 4 fungicides or Group 4 insecticides. A gradual or total loss of pest control may occur over time if these fungicides or insecticides 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 Raxil PRO Shield or other Group 3 and 4 fungicides and Group 4 insecticides with different groups that control the same pathogens or insects.
- Fungicide and insecticide use should be based on an IPM program that includes scouting and record keeping and crop rotation, and considers host plant resistance, impact of environmental conditions on pest development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Monitor treated fungal and insect populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogen/insect pests.
- For further information or to report suspected resistance contact Bayer CropScience at 1-888-283-6847 or at www.cropscience.bayer.ca.