

**IMPORTANT: MIX WELL BEFORE USING**

**GROUP 3 / 4 FUNGICIDE**

# **RANCONA<sup>®</sup> Pinnacle**

# **Fungicide**

**LIQUID SEED PROTECTANT FOR CEREAL GRAINS**

A systemic and contact broad spectrum fungicide seed treatment for the control or suppression of seed rots, pre- and post-emergence damping-off, seedling blights, smuts, bunts, leaf stripe, and root rots on cereals, including wheat, barley, oats, rye and triticale.

Solution

AGRICULTURAL

**ACTIVE INGREDIENT:**

metalaxyl\* .....6.15 g/L  
ipconazole\*\* .....4.61 g/L

\*CAS No. 57837-19-1 \*\*CAS No. 125225-28-7

REGISTRATION NO. 30769 PEST CONTROL PRODUCTS ACT

**READ THE LABEL BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

**NET CONTENTS:**

500 ml – bulk

Manufactured for:  
**Arysta LifeScience Canada Inc.**  
400 Michener Road, Unit 2  
Guelph, ON N1K 1E4

**FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL  
PROPHARMA: 1-866-303-6952 or +1-651-603-3432.**  
**FOR 24-HOUR CHEMICAL EMERGENCY (Spills, leaks, fire, exposure  
or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.**

**For Product Use Information Call 1-866-761-9397**

## 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 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.

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.

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Do not apply in 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.
3. The operator is advised to wear goggles to protect eyes from possible splashing. In case of contact with eyes, flush IMMEDIATELY with running water and seek medical attention.
4. Use good personal hygiene, washing hands and exposed skin thoroughly with soap and warm water after handling and before eating, drinking, or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use. Remove and wash contaminated clothing before reuse.
5. When handling or applying **RANCONA® PINNACLE FUNGICIDE**, or when working with contaminated equipment, wear long sleeved coveralls over normal work clothing, chemical-resistant gloves, shoes plus socks, and goggles.
6. Handlers of treated seed must wear long sleeved coveralls over normal work clothing, chemical-resistant gloves, and shoes plus socks.
7. Wear a suitable dust mask when bagging or sewing bags of treated seed or when transferring seed to a storage bin.

## ENVIRONMENTAL HAZARDS

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.

In cleaning of equipment or disposing of wastes, **DO NOT** contaminate water used for human or animal consumption or by wildlife and aquatic life or for irrigation purposes.

Treated seed is toxic to birds and small wild mammals. Any spilled or exposed treated seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

## DIRECTIONS FOR USE

**RANCONA PINNACLE FUNGICIDE** is a broad-spectrum, ready to use seed treatment fungicide containing ipconazole and metalaxyl for the control or suppression of labelled diseases on cereals, including wheat, barley, oats, rye and triticale. Seed should be sound and well cured before treatment.

**ALWAYS SHAKE, STIR OR OTHERWISE MIX THIS PRODUCT WELL BEFORE USING.**

## SEED TREATMENT EQUIPMENT

**RANCONA PINNACLE FUNGICIDE** is formulated for both commercial and for on-farm application. This product may be applied utilizing mechanical, slurry or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed. Uniform application to seed is necessary to assure best disease protection and optimum performance. Refer to the label rates below. Closed mix/load equipment must be used in commercial seed treatment facilities.

In most cases, **RANCONA PINNACLE FUNGICIDE** is ready to use and can be applied undiluted. However, dilution with water or container rinsate may be appropriate for some types of treaters and/or treating under dry and/or hot conditions to achieve more uniform product to seed coverage. **RANCONA PINNACLE FUNGICIDE** and water or container rinsate should be mixed thoroughly prior to treating seed. Recalibrate treating equipment to compensate for the addition of water or container rinsate. The amount of dilution water or container rinsate that is most suitable depends on the seed, treater type and temperature. Contact your local Arysta LifeScience Canada Inc. ("Arysta") representative or supplier for specific recommendations.

## APPLICATION INSTRUCTIONS

**RANCONA PINNACLE FUNGICIDE** contains the systemic fungicide ipconazole and the contact fungicide metalaxyl for the control or suppression of the following diseases:

Crop	Rate (mL/100 kg of seed)	Diseases Controlled	Diseases Suppressed
Wheat* (Spring and Winter)	325	Seed rots caused by seed-borne organisms ( <i>Penicillium</i> spp. and <i>Aspergillus</i> spp.)  Seed rot, damping off and seedling blight caused by seed- and soil-borne <i>Rhizoctonia solani</i> , <i>Fusarium</i> spp. and, <i>Cochliobolus sativus</i>  Seed rot, pre-emergence damping off and seedling blight caused by <i>Pythium</i> spp.  Loose Smut ( <i>Ustilago tritici</i> )  Common Bunt ( <i>Tilletia caries</i> , <i>T.foetida</i> )	Common root rot ( <i>Cochliobolus sativus</i> )  Crown and Foot Rot ( <i>Fusarium</i> spp.)
Barley*	325 - 433	Seed rots caused by seed-borne organisms ( <i>Penicillium</i> spp. and <i>Aspergillus</i> spp.)  Seed rot, damping off and seedling blight caused by seed- and soil-borne <i>Rhizoctonia solani</i> , <i>Fusarium</i> spp. and <i>Cochliobolus sativus</i>  Seed rot, pre-emergence damping off and seedling blight caused by <i>Pythium</i> spp.  True Loose Smut ( <i>Ustilago nuda</i> )  Covered Smut ( <i>Ustilago hordei</i> )  False Loose Smut ( <i>Ustilago nigra</i> )  Leaf Stripe ( <i>Pyrenophora graminea</i> )	Common root rot ( <i>Cochliobolus sativus</i> )  Crown and Foot Rot ( <i>Fusarium</i> spp.)

Crop	Rate (mL/100 kg of seed)	Diseases Controlled	Diseases Suppressed
	The higher rate provides a higher level of true loose smut control. Use the higher rate for highly infected seed lots only.		
Oats*	325	<p>Seed rots caused by seed-borne organisms (<i>Penicillium</i> spp. and <i>Aspergillus</i> spp.)</p> <p>Seed rot, damping off and seedling blight caused by seed- and soil-borne <i>Rhizoctonia solani</i>, <i>Fusarium</i> spp. and <i>Cochliobolus sativa</i></p> <p>Seed rot, pre-emergence damping off and seedling blight caused by <i>Pythium</i> spp.</p> <p>Loose Smut (<i>Ustilago avenae</i>)</p> <p>Covered Smut (<i>Ustilago kollerii</i>)</p>	<p>Common root rot (<i>Cochliobolus sativus</i>)</p> <p>Crown and Foot Rot (<i>Fusarium</i> spp.)</p>
Rye*, Triticale*	325	<p>Seed rots caused by seed-borne organisms (<i>Penicillium</i> spp. and <i>Aspergillus</i> spp.)</p> <p>Seed rot, damping off and seedling blight caused by seed- and soil-borne <i>Rhizoctonia solani</i>, <i>Fusarium</i> spp. and <i>Cochliobolus sativa</i></p> <p>Seed rot, pre-emergence damping off and seedling blight caused by <i>Pythium</i> spp.</p>	<p>Common root rot (<i>Cochliobolus sativus</i>)</p> <p>Crown and Foot Rot (<i>Fusarium</i> spp.)</p>

\* includes grains, forage and silage

Adjust the slurry application rate to compensate for addition of any water or rinsate from the triple rinse of the container prior to disposal. Please refer to Container Rinsing Instructions for rinsate directions.

#### USE PRECAUTIONS

- **DO NOT** use treated seed for food, feed or oil purposes.
- **DO NOT** use augers used for handling treated seed to move seed for feed, food or oil processing.
- **DO NOT** re-use bags from treated seed to handle food or feed products.
- **DO NOT** contaminate water used for human or animal consumption or by wildlife and aquatic life or for irrigation purposes.
- Mixing of **RANCONA PINNACLE FUNGICIDE** with other seed treatment products may result in gelling or sedimentation. Seed treater lines and reservoirs should therefore be thoroughly cleaned before changing over to **RANCONA PINNACLE FUNGICIDE**.
- Seeding rate should be checked during planting.
- All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows:  
 "This package or bag contains seed treated with ipconazole and metalaxyl. **DO NOT** use treated seed for food, feed or oil processing. Store away from food and feed. Handlers of treated seed must wear long sleeved coveralls over normal work clothing, chemical-resistant gloves, and shoes plus socks. Treated seed is toxic to birds and small wild mammals. Any spilled or exposed seed must be incorporated into the soil or otherwise cleaned up from the soil surface."
- **DO NOT** graze or feed livestock on treated areas for 30 days after planting.
- **RANCONA PINNACLE FUNGICIDE** treated wheat and barley seed may be stored for up to 18 months without reduction in germination due to the treatment chemical. However, treatment of

highly mechanically damaged seed, or seed known to be of low vigour and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigour. Treat and conduct germination tests on a small test sample of seed before treating commercial quantities with a selected chemical treatment.

- Due to seed quality and seed storage conditions beyond the control of Arysta, Arysta makes no claims or guarantees as to germination of carry-over seed.

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that **RANCONA PINNACLE FUNGICIDE** contains a Group 3 and a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to **RANCONA PINNACLE FUNGICIDE** and other Group 3 or 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 **RANCONA PINNACLE FUNGICIDE** or other Group 3 or 4 fungicides with different groups that control the same pathogens.
- Use tank-mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management 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.
- Monitor treated fungal populations for resistance development. Notify Arysta if reduced sensitivity of the pathogen to **RANCONA PINNACLE 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 pathogens.
- For further information and to report suspected resistance, contact Arysta at 1-866-761-9397.

### **STORAGE AND DISPOSAL**

#### **STORAGE**

Store in original container only, away from other pesticides, fertilizer, food or feed. After partial use, replace lid and close tightly. Store in a secure place that is temperate, dry and out of direct sunlight. Avoid excess heat. **Do not freeze.** ALWAYS SHAKE, STIR OR OTHERWISE MIX THIS PRODUCT WELL BEFORE USING.

#### **DISPOSAL**

FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add rinsings to transfer or holding tank on seed treating equipment. Refer to section on CONTAINER RINSING INSTRUCTIONS (below) for rinsing procedure.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty rinsed 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. See CONTAINER RINSING INSTRUCTIONS below.
2. Make the empty rinsed 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 empty 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.

#### **CONTAINER RINSING 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. IN MOST CASES, it is recommended to limit the rinse to 2% of the container volume for each rinse, to help assure good treating performance and to avoid settling of solids in the slurry. However, when desired, if the treating process permits it, the user may add additional water as described below:

**Triple rinse as follows:** *For containers with capacity equal to or less than 20 litres:* Empty the remaining contents into application equipment or a mix-tank and drain for 10 seconds after the flow begins to drip.

Add water - at least 2% of the container volume, and (if the treating mixture composition requires it) up to 1/4 of the container volume - and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip.

Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

*For containers with capacities greater than 20 litres:* Empty the remaining contents into application equipment or a mix-tank. Add water - at least 2% of the container volume, and (if the treating mixture composition requires it) up to 1/4 of the container volume. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 60 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

Note: Make sure rinsate is thoroughly mixed with seed treatment before treating. Be sure to adjust the slurry application rate to compensate for the dilution of the product caused by the addition of any water or rinsate.

#### **DISPOSAL OF UNUSED, UNWANTED PRODUCT:**

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 cleanup of spills.

#### **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on this label. It is an offense under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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