

**RAMPART®  
FUNGICIDE**

<b>GROUP</b>	<b>33</b>	<b>FUNGICIDE</b>
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For suppression of downy mildew on brassica leafy vegetables (Crop Group 5) and grapes, for control of late blight and pink rot on stored potatoes, for suppression of pink rot and late blight in potato, and for suppression of downy mildew in blackberry.

COMMERCIAL  
SOLUTION

REGISTRATION NO. 30654  
PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

CAUTION – EYE IRRITANT

**GUARANTEE:**

Mono- and dipotassium salts of phosphorous acid ... 53.0%

NET CONTENTS: 9.46 L

LOVELAND PRODUCTS CANADA INC.  
789 Donnybrook Drive  
Dorchester, Ontario  
N0L 1G5

Product inquiries: 1-800-328-4678

**IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING  
INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273**

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.**

Causes mild eye irritation. Avoid breathing vapours or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear.

Remove contaminated clothing and wash clothing before reuse.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment, and sprayer settings.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

**ENVIRONMENTAL HAZARDS:**

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 results of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

**FIRST AID**

**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 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.

**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 INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. 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:** Treat symptomatically.

**RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that RAMPART Fungicide contains a Group 33 fungicide. Any fungal population may contain individuals naturally resistant to RAMPART Fungicide and other Group 33 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 RAMPART Fungicide or other Group 33 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.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify Loveland Products Canada Inc. if reduced sensitivity of the pathogen to RAMPART 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 Technical Service, Loveland Products Canada Inc., 1-800-328-4678 or at [www.uap.ca](http://www.uap.ca).

**GENERAL APPLICATION INSTRUCTIONS**

For foliar sprays, apply RAMPART Fungicide with sufficient water to ensure adequate coverage of foliage, according to crop and growth stage. To insure good coverage, spray to wet but avoid run-off.

## **MIXING INSTRUCTIONS**

1. Fill the spray tank with 1/2 of the required volume of water.
2. Add RAMPART Fungicide slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

## **AERIAL APPLICATION PRECAUTIONS**

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. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. 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.

### **Use Precautions**

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 National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

### **Operator Precautions**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed 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.

## **DIRECTIONS FOR USE**

As this product is not registered for the control of pests in aquatic system, 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.

**Brassica Leafy Vegetables** (broccoli, Chinese broccoli, broccoli raab, Brussels sprouts, cabbage, cauliflower, cavolo broccoli, collard, kale, kohlrabi, mizuna, mustard greens, mustard spinach, rape greens)

For suppression of downy mildew (*Hyaloperonospora parasitica*):

Make foliar applications of RAMPART Fungicide at a rate of 3-7 L in 300-500 L of water per hectare. Begin applications prior to disease development in conjunction with good cultural management practices. Apply at 1-3 week intervals, using the higher rate and shorter interval when disease pressure is severe.

For brassicas with one crop cycle per season, **DO NOT** make more than eight applications of RAMPART Fungicide per season on a given area.

For brassicas with multiple crop cycles per season, **DO NOT** make more than three applications of RAMPART Fungicide per crop cycle, with a maximum of 12 applications per season on a given area.

**DO NOT** apply to plants that are **DORMANT** or **HEAT STRESSED**. To avoid undesirable copper phytotoxicity, **DO NOT** apply RAMPART Fungicide foliarly to plants treated with copper based compounds at less than 20 day intervals. Allow foliage to completely dry after application. **DO NOT** apply when conditions favour wet tissue for prolonged periods (> 4 hours).

This product may be applied up to 1 day before harvest.

## Potatoes

Make application prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. To prevent plant injury, DO NOT exceed the maximum rate or apply more frequently. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. To avoid undesirable copper phytotoxicity, do not apply Rampart Fungicide foliarly to plants treated with copper based compounds at less than 20-day intervals unless instructed to do so by your consultant. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4hours).

Disease	Application method	Rate	Application Program
Suppression of Late blight ( <i>Phytophthora infestans</i> ) and Suppression of Pink rot ( <i>Phytophthora erythroseptica</i> )	Foliar Ground Application	3.0-8.0 L of Rampart Fungicide in 1000L of water per ha (Use a minimum of 300L of water).	Begin applications when conditions are favorable for disease and continue on a 7-day interval. Use the higher rate when disease pressure is moderate to high. Use a maximum of 5 foliar applications per growing season in a preventive program for disease suppression  Do not apply Rampart Fungicide at intervals less than 3 days.
	Foliar Aerial Application	3.0-8.0 L of Rampart Fungicide in a minimum of 100L of water per ha.	

## **Potatoes, Post-Harvest**

RAMPART Fungicide controls late blight (*Phytophthora infestans*) and pink rot (*Phytophthora erythroseptica*) on stored potatoes.

A maximum of one application of RAMPART Fungicide per year may be made, either as a single spray or rinse to harvested potato tubers prior to storage or as a single application through the humidification system to potatoes in storage. Apply RAMPART Fungicide as soon as possible after harvest.

Application prior to storage of potato tubers:

Dilute 190 mL of RAMPART Fungicide in 1 litre of water. Apply 2 litres of this solution as a spray or rinse to 1000 kg of harvested potato tubers prior to storage.

Application to stored potatoes:

Dilute 190 mL of RAMPART Fungicide in 1 litre of water. Inject 2 litres of this solution per 1000 kg of stored potato tubers into water used for post-harvest storage.

## Blackberry

Make application prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. To prevent plant injury, DO NOT exceed the maximum rate or apply more frequently. Do not apply at less than 3-day intervals. Do not apply to plants that are dormant or heat or moisture stressed. To avoid undesirable copper phytotoxicity, do not apply Rampart Fungicide foliarly to plants treated with copper based compounds at less than 20-day intervals unless instructed to do so by your consultant. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4hours).

## Blackberry

<b>Disease</b>	<b>Application method</b>	<b>Rate</b>	<b>Application Program</b>
Suppression of Downy mildew ( <i>Peronospora sparsa</i> )	Foliar Ground Application	3.0-8.0 L of Rampart Fungicide in 1000L of water per ha	Begin applications when conditions are favourable for disease and continue on a 7-day interval. Use the higher rate when disease pressure is moderate to high. Use a maximum of 5 foliar applications per growing season in a preventive program for disease suppression.  Do not apply Rampart Fungicide at intervals less than 3 days.



## **Grapes**

For suppression of downy mildew (*Plasmopara viticola*):

Make foliar applications of RAMPART Fungicide at a rate of 2.5-5 L/ha. Apply at 1-3 week intervals, using the higher rate and shorter interval when disease pressure is severe. The suggested water volume is 500 L/ha when the plants are first starting to grow and 1000 L/ha when leaves, vines and fruit increase the surface area of the plant.

DO NOT make more than five applications of RAMPART Fungicide per season on a given area.

DO NOT apply to plants that are DORMANT or HEAT STRESSED. To avoid undesirable copper phytotoxicity, DO NOT apply RAMPART Fungicide foliarly to plants treated with copper based compounds at less than 20 day intervals. Allow foliage to completely dry after application. DO NOT apply when conditions favour wet tissue for prolonged periods (> 4 hours).

This product may be applied up to 1 day before harvest.

**STORAGE**

To prevent contamination store this product away from food or feed.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. 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, 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.

**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. The user assumes the risk to persons or property that arises from any such use of this product.

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