

RAMPART™

Potassium Phosphite

A FUNGICIDE FOR THE CONTROL OF DOWNY MILDEW, PHYTOPHTHORA, PYTHIUM AND VARIOUS OTHER DISEASES ON AGRICULTURAL CROPS

ACTIVE INGREDIENTS:

Mono- and dipotassium salts of Phosphorous Acid*	53%
OTHER INGREDIENTS:	47%
TOTAL	100%

*Contains 6.22 lbs./gallon of active ingredients, mono- and dipotassium salts of Phosphorous Acid. Equivalent to 3.90 lbs. Phosphorous Acid/gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID STATEMENTS

If in eyes:	<ul style="list-style-type: none">• 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 center or doctor for treatment advice.
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Have the container or label with you when calling a poison control center or doctor, or going for treatment.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL:
1-800-301-7976.**

See inside label booklet for First Aid and additional Precautionary Statements.

EPA REG. NO. 34704-924

EPA EST. NO. 34704-MS-1

NET CONTENTS 1 GAL. (3.78 L)

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with 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, shoes plus socks and protective eyewear.

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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

Do not apply this product in a way that will contact workers or other person, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is: coveralls over long-sleeved shirt and long pants, socks, shoes, chemical resistant gloves and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

GENERAL APPLICATION INSTRUCTIONS

Apply RAMPART by various application methods, including foliar sprays, trunk injection, soil drench, soil incorporation, and bare root dip. For foliar sprays, apply RAMPART with sufficient water for adequate coverage of foliage, according to crop and growth stage. To insure good coverage, spray to wet.

GENERAL APPLICATION INSTRUCTIONS (TRUNK INJECTION ONLY)

RAMPART is a systemic fungicide for the prevention and treatment of downy mildew, Sudden Oak Death (*Phytophthora ramorum*), root rots (*Phytophthora* spp.), pythium and various other disease of agricultural trees, indoor and outdoor ornamentals, forestry applications including domestic trees, conifers, pines and oaks. This product may be applied up to the day of harvest.

MIXING INSTRUCTIONS

1. Fill the spray tank with ½ of the required volume of water.
 2. Add RAMPART 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.
- For 1 gallon (3.785 liters) container sizes: this package can treat up to 34,848 sq. ft. at the maximum treatment rate.
- For 2½ gallon (9.463 liters) container sizes: this package can treat up to 2 acres at the maximum treatment rate.
- For 5 gallon (18.925 liters) container sizes: this package can treat up to 4 acres at the maximum treatment rate.

LOW VOLUME AND ULTRA-LOW VOLUME APPLICATIONS

Label rates are written for conventional application equipment. For LV/ULV equipment, use per acre rate of RAMPART and adjust amount of water to equipment needs. Always conduct a phytotoxicity test on a small area before applying to a large area in order to assess any potential risk to plants.

COMPATIBILITY

Mixing RAMPART with certain surfactants, foliar fertilizers or other pesticides may cause crop injury. RAMPART is a slightly acidic buffer solution. Avoid mixing RAMPART with strongly acidic or alkaline materials. Do not tank mix without first testing the mixture's compatibility nor apply it without assessing its safety to the crop (phytotoxicity). It is not possible to test all material combinations and environmental tank mix combinations. Always conduct a test with the intended tank mix on a small area prior to any large scale applications. To determine if a combination is phytotoxic to a specific crop, spray a small area of foliage and fruit, and then evaluate 3-7 days later for visual symptoms.

RAMPART

EPA REG. NO. 34704-924

Test the compatibility of spray adjuvants (i.e. stickers, spreaders, wetting agents) with RAMPART before use. Do not use acidifying type compatibility agents. To determine the compatibility of RAMPART with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to clean container, thoroughly mix, then let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

COMPATIBILITY (TRUNK INJECTION ONLY): Use only RAMPART alone when used as a trunk injection. To avoid undesirable phytotoxicity, do not apply RAMPART to trees treated with other pesticides or copper based compounds at intervals less than 20 days, unless instructed to do so by your consultant.

CHEMIGATION

APPLICATIONS THROUGH SPRINKLER AND DRIP IRRIGATION SYSTEMS

Apply this product through microjet, drip, solid set and center pivot sprinkler irrigation systems. Do not apply this product through any other type of irrigation system.

PREPARATION OF INJECTION EQUIPMENT: Remove scale, pesticide residues and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

APPLICATION INSTRUCTIONS: Fill tank with 1/2 to 3/4 of desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of RAMPART, then the remaining volume of water. Set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the solution of RAMPART into the irrigation water line so as to deliver the desired rate per acre. Inject the RAMPART solution with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. For other questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

NOTE: For Microjet and Drip Irrigation Systems: Avoid further irrigation of the treated area for 24 to 48 hours after treatment with RAMPART has been completed. For Solid Set and Center Pivot Irrigation Systems: Avoid further irrigation of the RAMPART treated area until after the foliage has completely dried. This will help to prevent washing the chemical off the crop.

GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER AND DRIP IRRIGATION SYSTEMS

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Maintain continuous agitation in mix tank during mixing and application to assure uniformity solution. Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution, or when lines containing the product must be dismantled or drained. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of chemigation water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut down and adjust the system as needed.

Do not connect an irrigation system (including greenhouse system) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

GENERAL INSTRUCTIONS FOR APPLICATIONS FOOD CROPS

RAMPART fungicide is used for control of Downy Mildew, Powdery Mildew, *Erwinia amylovora*, Pythium, Fusarium, Rhizoctonia and Phytophthora disease (such as purple blotch, late blight, blue mold, soft rot, root rot, brown rot, foot rot, crown/collar rot, canker, fruit/foliar rot, fire blight, heart rot, pink rot, pythium leak, red stele, leather rot, etc.) of agronomic crops. (See specific crop groupings for additional diseases.) This product may be applied up to the day of harvest.

RAMPART is applied to plants including:

Berry Crop Grouping: Blackberry (including bingberry, black satin berry, boysenberry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, Grapes (all types), Himalayaberry, hullberry, Lavacaberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry,

nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, youngberry, and varieties and/or hybrids of these), Blueberry, Cane Berries, Cranberry, Currant, Elderberry, Gooseberry, Huckleberry, Loganberry, Rasperry (black and red) and Strawberry.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3 day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

Disease	Application Method	Rate	Application Program
Phytophthora Pythium Fusarium Rhizoctonia <i>Xanthomonas campestris</i> Anthracnose	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in minimum of 100 liters of water/hectare)	Disease Prevention Program*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program: Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters of water/hectare.)	
	Root Dip	2 quarts/100 gallons of water, 2/3 fluid ounce/gallon of water. (5 liters/1000 liters of water)	
Downy Mildew Powdery Mildew	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours after dipping. Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in minimum of 100 liters of water/hectare)	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters of water/hectare.)	

* Check with your local Extension Agent if you are unsure these conditions exist

Brassica Crop Grouping: Broccoli (all types), Brussels sprouts, Cabbage (all types), Cauliflower, Cavalo broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach and Rape greens.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3 day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

RAMPART EPA REG. NO. 34704-924

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Phytophthora Pythium Fusarium Rhizoctonia <i>Xanthomonas campestris</i> Anthracnose	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in minimum of 100 liters of water/hectare)	Disease Prevention Program* : Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program : Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or		
	Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters of water/hectare.)	
	Root Dip	1 quart/100 gallons of water, 1/3 fluid ounce/ gallon of water. (2.5 liters/1000 liters of water)	
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
Downy Mildew Powdery Mildew	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in minimum of 100 liters of water/hectare)	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	or		
	Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters of water/hectare.)	

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Cereal Grains, Forage and Fiber Crop Grouping: Alfalfa, Barley, Buckwheat, Canola, Clover (all types), Corn (all types), Cotton, Hay, Kudzu, Lespedeza, Lupin, Millet, Oats, Popcorn, Rice, Rye, Safflower, Sainfoin, Sorghum, Sunflower, Teosinte, Trefoil, Triticale, Vetch, Wheat and Wild rice.

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Disease	Application Method	Rate	Application Program
Phytophthora Pythium Fusarium Rhizoctonia <i>Xanthomonas campestris</i> Anthracnose	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in minimum of 100 liters of water/hectare)	Disease Prevention Program* : Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program : Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or		
	Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters of water/hectare.)	

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> <i>Pythium</i> <i>Fusarium</i> <i>Rhizoctonia</i> <i>Xanthomonas campestris</i> <i>Anthracnose</i> <i>cont'd.:</i>	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	Downy Mildew	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in minimum of 100 liters of water/hectare)
	or		
	Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters of water/hectare.)	

* Check with your local Extension Agent if you are unsure these conditions exist.

Citrus Crop Grouping (Bearing and Non-Bearing) including Avocado: Avocado, Calamondin, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin, Orange (all types), Pummelo and Satsuma madarin.

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Disease	Application Method	Rate	Application Program
Phytophthora Pythium Fusarium Rhizoctonia <i>Xanthomonas campestris</i>	Foliar	1 to 3 quarts in a minimum of 100 gallons of water/acre. (5 to 7 liters in a minimum of 1000 liters of water/hectare)	Disease Prevention Program* : Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program : Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or		
	Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	
	Root Dip	2 quarts/100 gallons of water, 2/3 fluid ounces/gallon of water (5 liters/1000 liters of water)	Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours after dipping.
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	Trunk Injection	3 teaspoons/linear yard of canopy width or 2 inch of trunk diameter at breast height (DBH) (15 milliliters/linear meter of canopy width or 5 centimeters DBH.) Inject directly in to tree.	Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications. Repeat 2-4 times a year until control is reached.

RAMPART

EPA REG. NO. 34704-924

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Downy Mildew	Foliar	1 to 3 quarts in a minimum of 100 gallons of water/acre. (5 to 7 liters in a minimum of 1000 liters of water/hectare)	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	

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Cucurbit Crop Grouping: Chayote, Chinese waxgourd, Citron melon, Cucumber (all types), Gherkin, Gourd, Muskmelon, Pumpkin, Squash (summer and winter) and Watermelon.

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Disease	Application Method	Rate	Application Program
Phytophthora Pythium Fusarium Rhizoctonia Anthracnose	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in a minimum of 100 liters of water/hectare)	Disease Prevention Program* : Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program : Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.

Downy Mildew Powdery Mildew	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in a minimum of 100 liters of water/hectare)	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	

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Herbs and Spices Crop Grouping: Allspice, Angelica, Anise, Annatto, Balm, Basil, Borage, Bomet, Camomile, Caper buds, Caraway, Cardamom, Cassia bark and buds, Catnip, Celery seed, Chervil, Chive, Cinnamon, Clary, Clove, Cocoa, Coriander, Costmary, Cilantro, Cumin, Curry, Dill, Fennel, Fenugreek, Grains of paradise, Hops, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage, Mace, Marigold, Marjoram, Mint, Mustard, Nasturtium, Nutmeg, Parsley, Pennyroyal, Pepper, Poppy seed, Rosemary, Rue, Saffron, Sage, Savory, Sweet bay, Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff and Wormwood.

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less than 3 day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

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Phytophthora Pythium Fusarium Rhizoctonia	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in a minimum of 100 liters of water/hectare)	Disease Prevention Program* : Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program : Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
Downy Mildew Powdery Mildew	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in a minimum of 100 liters of water/hectare)	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	

* Check with your local Extension Agent if you are unsure these conditions exist.

Legume Vegetables Crop Grouping: Bean (all types), broad bean (fava bean), Chick pea (garbanzo bean), Guar, Jackbean, Lablab bean, Lentil, Pea (all types), Peanut, Pigeon pea, Soybean and Sword bean.

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Disease	Application Method	Rate	Application Program
Phytophthora Pythium Fusarium Rhizoctonia Early and Late Leaf Spot on Peanut (<i>Cercospora arachidicola</i> and <i>Cercosporidium personatum</i>) <i>Xanthomonas campestris</i> Anthracnose	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in a minimum of 100 liters of water/hectare)	Disease Prevention Program* : Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program : Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters of water/hectare.)	
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.

RAMPART EPA REG. NO. 34704-924

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Downy Mildew Powdery Mildew	Foliar	1 to 3 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in a minimum of 100 liters of water/hectare)	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	

* Check with your local Extension Agent if you are unsure these conditions exist.

Pome Fruits Crop Grouping (Bearing and Non-Bearing) including Papaya: Apple, Crabapple, Loquat, Mayhaw, Papaya, Pear, and Quince.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3 day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

Disease	Application Method	Rate	Application Program
Phytophthora Pythium Fusarium Rhizoctonia Fire Blight (<i>Erwinia amylovora</i>) <i>Xanthomonas campestris</i>	Foliar	1 to 3 quarts in a minimum of 100 gallons of water/acre. (5 to 7 liters in a minimum of 1000 liters of water/hectare)	Disease Prevention Program* : Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program : Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	
	Root Dip	2 quarts/100 gallons of water, ² / ₃ fluid ounces/gallon of water (5 liters/1000 liters of water)	Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours after dipping.
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	Trunk Injection	3 teaspoons/linear yard of canopy width or 2 inch of trunk diameter at breast height (DBH) (15 milliliters/linear meter of canopy width or 5 centimeters DBH.) Inject directly in to tree.	Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications. Repeat 2-4 times a year until control is reached.
	Downy Mildew Powdery Mildew	Foliar or Aerial Application	1 to 3 quarts in a minimum of 100 gallons of water/acre. (5 to 7 liters in a minimum of 1000 liters of water/hectare) 1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)

* Check with your local Extension Agent if you are unsure these conditions exist.

Stone Fruits Crop Grouping including Olives: Apricot, Cherry, Nectarine, Olive, Peach, Plum, Plumcot and Prune.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3 day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

Disease	Application Method	Rate	Application Program
Phytophthora Pythium Fusarium Rhizoctonia <i>Xanthomonas campestris</i>	Foliar	1 to 3 quarts in a minimum of 100 gallons of water/acre. (5 to 7 liters in a minimum of 1000 liters of water/hectare)	Disease Prevention Program* : Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program : Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	
	Root Dip	2 quarts/100 gallons of water, ² / ₃ fluid ounces/gallon of water (5 liters/1000 liters of water)	Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours after dipping.
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	Trunk Injection	3 teaspoons/linear yard of canopy width or 2 inch of trunk diameter at breast height (DBH) (15 milliliters/linear meter of canopy width or 5 centimeters DBH.) Inject directly in to tree.	Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications. Repeat 2-4 times a year until control is reached.
Downy Mildew Powdery Mildew	Foliar	1 to 3 quarts in a minimum of 100 gallons of water/acre. (5 to 7 liters in a minimum of 1000 liters of water/hectare)	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	or Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	

* Check with your local Extension Agent if you are unsure these conditions exist.

Tree Nuts Crop Grouping including Vines: Almond, Beech nut, Betelnut Palm, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Grapes (all types), Hickory nut, Kiwi, Macadamia nut, Pecan, Pistachio and Walnut.

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their recommendations. Do not exceed the highest rate per application. Do not apply at less than 3 day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

RAMPART

EPA REG. NO. 34704-924

Disease	Application Method	Rate	Application Program
Phytophthora Pythium Fusarium Rhizoctonia <i>Xanthomonas campestris</i>	Foliar	1 to 3 quarts in a minimum of 100 gallons of water/acre. (5 to 7 liters in a minimum of 1000 liters of water/hectare)	Disease Prevention Program*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program: Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or		
	Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	
	Root Dip	2 quarts/100 gallons of water, ² / ₃ fluid ounces/gallon of water (5 liters/1000 liters of water)	
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	
Trunk Injection	3 teaspoons/linear yard of canopy width or 2 inch of trunk diameter at breast height (DBH) (15 milliliters/linear meter of canopy width or 5 centimeters DBH.) Inject directly in to tree. Betelnut Palm: ¼ to 1 fl. oz. per tree.	Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications. Repeat 2-4 times a year until control is reached.	
Soil Drench	1-2 gallons/100 gallons of water or 1.25 to 2.5 fluid ounces per gallon of water (10-20 liters/1000 liters of water)	Apply 5-10 gallons of diluted solution per tree. Adjust volume as needed to thoroughly drench area around trunk. Apply at 3-4 week intervals and repeat as needed. Do not apply RAMPART at intervals less than 3 days.	
Downy Mildew Powdery Mildew	Foliar	1 to 3 quarts in a minimum of 100 gallons of water/acre. (5 to 7 liters in a minimum of 1000 liters of water/hectare)	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	or		
	Aerial Application	1 to 3 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	

* Check with your local Extension Agent if you are unsure these conditions exist.

Vegetables Crop Grouping Including Miscellaneous Food Crops: (Leafy, Root and Tuber) Amaranth (Chinese spinach, tampala, etc.) Arracacha, Arugula, Arrowroot, Artichoke (all types), Asparagus, Beet (all types), Burdock, Cann, Cardoon, Carrot, Cassava, Celeriac, Celery, Chayote, Chervil (turnip-rooted), Chicory, Chillies, Chrysanthemum (edible), Chufa, Cinchoca, Coconut, Coffee, Corn (all types), Cress (all types), Dandelion, Dasheen, Dock, Eggplant, Endive, Fennel, Garlic, Ginger, Ginseng, Horseradish, Leren, Lettuce (all types), Okra, Onion, Orach, Parsley, Parsnip, Peppers (all types), Pineapple, Purslane, Potato (all types), Radicchio, Radish (all types), Rhubarb, Rutabaga, Salisify (all types), Skirret, Spinach (all types), Sugarbeet, Sugarcane, Sweet Potato, Swiss chard, Tanier, Tobacco, Tomato, Turmeric, Turnip, Yam (all types).

Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Use rates and frequency are designed to prevent plant injury. If more frequent applications are necessary for disease control, consult a crop expert and follow their rec-

ommendations. Do not exceed the highest rate per application. Do not apply at less than 3 day intervals. Do not apply to plants that are dormant or heat or moisture stressed. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

Disease	Application Method	Rate	Application Program
Phytophthora Pythium Fusarium Rhizoctonia <i>Xanthomonas campestris</i> Anthracnose	Foliar	1 to 4 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in a minimum of 100 liters of water/hectare)	Disease Prevention Program*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART at intervals less than 3 days. Disease Control Program: Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART at intervals less than 3 days.
	or		
	Aerial Application	1 to 4 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	
	Root Dip	2 quarts/100 gallons of water, ² / ₃ fluid ounces/gallon of water (5 liters/1000 liters of water)	
	Irrigation	Overhead: 2-4 quarts in at least 100 gallons of water. (7-9 liters in at least 1000 liters of water) Drip: 2-3 quarts in at least 100 gallons of water. (5-7 liters in at least 1000 liters of water)	Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
Downy Mildew Powdery Mildew	Foliar	1 to 4 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in a minimum of 100 liters of water/hectare)	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.
	or		
	Aerial Application	1 to 4 quarts in a minimum of 10 gallons of water/acre. (5 to 7 liters in a minimum of 75 liters/hectare.)	
Pink Rot (<i>Phytophthora erythroseptica</i>) Late Blight (<i>Phytophthora infestans</i>)	Foliar or Aerial Application	3 to 5 quarts in a minimum of 20 gallons of water/acre. (5 to 7 liters in minimum of 100 liters of water/hectare. *Note: 1 gallon container will not be sufficient for treating pink rot and late blight at the highest given application rate. An additional 1 gallon container or a larger container size will be necessary to achieve the maximum treatment rate.	Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART at intervals less than 3 days.

* Check with your local Extension Agent if you are unsure these conditions exist.

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, keep out of smoke.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By

RAMPART
EPA REG. NO. 34704-924

buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL, THIS PRODUCT IS SOLD AS IS TO THE EXTENT ALLOWED BY APPLICABLE LAW. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

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