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
See inside label booklet for First Aid and additional precautionary statements.

FIRST AID STATEMENTS

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 center or doctor for treatment advice.

If in mouth:
- Rinse mouth thoroughly with water.
- Drink a full glass of water if able to swallow.
- Do not induce vomiting.
- Call a poison control center or doctor for treatment advice.

If on skin:
- Wash thoroughly with soap and water.
- Take off contaminated clothing.
- Forcutaneous irritation, use cold water and soap or mild detergent.
- Call a poison control center 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 center or doctor for treatment advice.

If on skin:
- Wash thoroughly with soap and water.
- Take off contaminated clothing.
- For cutaneous irritation, use cold water and soap or mild detergent.
- Call a poison control center or doctor for treatment advice.

If inhaled:
- Move person to fresh air.
- Call a poison control center or doctor for treatment advice.

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:
1-866-944-8565.

EPA REG. NO. 34704-924
EPA EST. NO. 34704-MS-001
NET CONTENTS 2½ GALS. (9.46 L)
091008 V3D 02O12

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Applicators and other handlers must wear:
- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Protective eyewear.

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 Worker Protection Standard.

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:
- 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 rinsates.

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

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 properly trained 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 of this box only apply to uses of this product that are covered by the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:
- Overalls over long-sleeved shirt and long pants,
- Socks, shoes,
- Chemical resistant gloves,
- 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, and greenhouses.

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

GENERAL APPLICATION INSTRUCTIONS
Apply RAMPART® Fungicide by various application methods, including foliar sprays, trunk injection, soil drench, soil incorporation, and bare root dip. For foliar sprays, apply RAMPART Fungicide 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 Fungicide 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 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 as specified in the WPS.

For 5 gallon (18.925 liters) container sizes: this package can treat up to 4 acres 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 1 gallon (3.785 liters) container sizes: this package can treat up to 34,848 sq. ft. at the maximum treatment rate.
For 1/2 gallon (1.893 liters) container sizes: this package can treat up to 0.8 acres at the maximum treatment rate.

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 rinsates.
LOW VOLUME AND ULTRA-LOW VOLUME APPLICATIONS
Label rates are written for conventional application equipment. For LV/ULV equip-
ment, use per acre rate of RAMPART Fungicide 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 Fungicide with certain surfactants, foliar fertilizers or other pes-
ticides may cause crop injury. RAMPART Fungicide is a slightly acidic buffer solu-
tion. Avoid mixing RAMPART Fungicide 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.

Test the compatibility of spray adjuvants (i.e. stickers, spreaders, wetting agents)
with RAMPART Fungicide before use. Do not use acidifying type compatibility
agents.

To determine the compatibility of RAMPART Fungicide with other products, use a
jar compatibility test. Add the correct proportions of each product and the appro-
priate 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 Fungicide alone
when used as a trunk injection. To avoid undesirable phytotoxicity, do not apply
RAMPART Fungicide to trees treated with other pesticides or copper based com-
ounds 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 irri-
gation 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 injection system. Flush
with clean water.

APPLICATION INSTRUCTIONS: Fill tank with ½ to ¾ of desired amount of water.
Start mechanical or hydraulic agitation. Add the required amount of RAMPART
Fungicide, then the remaining volume of water. Set the chemical tank to deliver 0.1 to 0.2
inch of water per acre. Start sprinkler and uniformly inject the solution of RAM-
PART Fungicide into the irrigation water line so as to deliver the desired rate per
acre. Inject the RAMPART Fungicide 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, equip-
ment 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 Fungicide has been
completed. For Solid Set and Center Pivot Irrigation Systems: Avoid further irri-
gation of the RAMPART Fungicide treated area until after the foliage has com-
pletely 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 con-
tain 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 auto-
matically or manually shut down. The system must contain functional interlocking
circuitry 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 distribu-
tion, 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 sys-
tem 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 pesti-
cide 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, Envia-
nia 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 leaf,
red stele, leather rot, etc.) of organic crops. (See specific crop groupings for
additional diseases.) This product may be applied up to the day of harvest.

RAMPART Fungicide is applied to plants including:

- Berry Crop Grouping: Blackberry (including bingberry, black satin berry, boysen-
  berry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, cerryberry, darr-
  rowberry, dewberry, Dirkseen thornless berry, Grapes (all types), Himalayaberry,
  hulberry, Lavacaberry, lowberry, Lubercaberry, mammoth blackberry, marionberry,
  negro, norgeme berry, Oregon evergreen berry, phenomeneberry, rangeberry,
  ravberry, rossberry, Shawnee blackberry, youngberry, and varieties and/or
  hybrids of these), Blueberry, Cane Berries, Cranberry, Currant, Elderberry,
  Gooseberry, Huckleberry, Loganberry, Raspberry (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 applica-
tions 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 days intervals. Do not apply to plants that are dormant or heat or mois-
ture stressed. Allow foliage to completely dry after application. Do not apply when
conditions favor wet tissue for prolonged periods (>4 hours).

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Method</th>
<th>Rate</th>
<th>Application Program</th>
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<tbody>
<tr>
<td>Phytophthora</td>
<td>Foliar or Aerial Application</td>
<td>1-3 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in a minimum of 100 liters of water/hectare)</td>
<td>Disease Prevention Program*: Apply lower rate at 2-4 week intervals after plants have become established. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
<tr>
<td>Pythium</td>
<td>Foliar or Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
<td>Disease Control Program: Apply higher rate at 2-3 week intervals until control is obtained. Consult with Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
<tr>
<td>Fusarium+ Rhizoctonia+ Xanthomonas campesris Anthracnose</td>
<td>Foliar or Aerial Application</td>
<td>Root Dip 2 quarts/100 gallons of water; (5 liters/1000 liters of water)</td>
<td>Apply as pre-plant dip to the roots for 15-30 minutes. Plant within 24 hours after dipping.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Irrigation</td>
<td>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)</td>
</tr>
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</table>

Dowmy Mildew Powdery Mildew+ Brassica Crop Grouping: Broccoli (all types), Brussels sprouts, Cabbage (all types), Cauliflower, Collard, 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 RAMPART Fungicide at intervals less than 3 days. 

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

2
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).

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<td>Phytophthora Pythium</td>
<td>Foliar</td>
<td>1-3 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in minimum of 100 liters of water/hectare)</td>
<td>Disease Prevention Program: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
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<tr>
<td>Fusarium+ Rhizoctonia+</td>
<td>or</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
<td>RAMPART Fungicide at intervals less than 3 days.</td>
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<tr>
<td>Xanthomonas campestris</td>
<td>Aerial Application</td>
<td>-</td>
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<tr>
<td>Anthracnose</td>
<td>Foliar</td>
<td>1-3 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
<td>Disease Prevention 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 Fungicide at intervals less than 3 days.</td>
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<tr>
<td>or</td>
<td>Aerial Application</td>
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</table>

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

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).

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<td>Phytophthora Pythium</td>
<td>Foliar</td>
<td>1-3 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in a minimum of 100 gallons of water/hectare)</td>
<td>Disease Prevention Program: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
<tr>
<td>Fusarium+ Rhizoctonia+</td>
<td>or</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
<td>RAMPART Fungicide at intervals less than 3 days.</td>
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<tr>
<td>Xanthomonas campestris</td>
<td>Aerial Application</td>
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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. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).
### Disease Application Rate Application Program

**Phytophthora**

**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)

**Application Program**
- Apply with normal irrigation schedule.
- Follow Disease Prevention Program or Disease Control Program as stated above.

**Foliar**
- 1-3 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in a minimum of 100 liters of water/acre)

**Application Program**
- Apply at 2-3 week intervals.

**Fusarium**

**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)

**Application Program**
- Apply with normal irrigation schedule.
- Follow Disease Prevention Program or Disease Control Program as stated above.

**Aerial Application**
- 1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/acre)

**Application Program**
- Apply at 2-3 week intervals.

**Rhizoctonia**

**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)

**Application Program**
- Apply with normal irrigation schedule.
- Follow Disease Prevention Program or Disease Control Program as stated above.

**Foliar**
- 1-3 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in a minimum of 100 liters of water/acre)

**Application Program**
- Apply at 2-3 week intervals.

**Xanthomonas campestris**

**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)

**Application Program**
- Apply with normal irrigation schedule.
- Follow Disease Prevention Program or Disease Control Program as stated above.

**Foliar**
- 1-3 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in a minimum of 100 liters of water/acre)

**Application Program**
- Apply at 2-3 week intervals.

**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)

**Application Program**
- Apply with normal irrigation schedule.
- Follow Disease Prevention Program or Disease Control Program as stated above.

**Foliar**
- 1-3 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in a minimum of 100 liters of water/acre)

**Application Program**
- Apply at 2-3 week intervals.

**Anthracnose**

**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)

**Application Program**
- Apply with normal irrigation schedule.
- Follow Disease Prevention Program or Disease Control Program as stated above.

**Aerial Application**
- 1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/acre)

**Application Program**
- Apply at 2-3 week intervals.

### Herbs and Spices Crop Grouping:

- Allspice, Angelica, Anise, Annatto, Balm, Basil, Borage, Burnet, 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, Ginkgo, Hops, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage, Mace, Marigold, Marjoram, Mint, Mustard, Nuttartum, Nutmeg, Parsley, Pennyroyal, Pepper, Poppy seed, Rosemary, Rose, Saffron, Sage, Savory, Sweet bay, Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodward and Wormwood.

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).

### Cucurbit Crop Grouping:

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

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.

### 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.

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 Rate Application Program

### Fire Blight+ (Erwinia amylovora)

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<tr>
<td>Phytophthora Pythium Fusarium+ Rhizoctonia+ Early and Late Leaf Spot+ on Peanut (Cercospora arachidicola and Cercosporidium personatum)</td>
<td>Foliar</td>
<td>1-3 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in a minimum of 100 liters of water/hectare)</td>
<td>Disease Prevention Program*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
<tr>
<td>Phytanthermonas campestris Anthracnose</td>
<td>Foliar</td>
<td>1-3 quarts in a minimum of 100 liters of water (5-7 liters in a minimum of 100 liters of water/hectare)</td>
<td>Disease Prevention Program*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
<tr>
<td>Phytanthermonas campestris</td>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
<td>Disease Prevention Program*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
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### Downy Mildew

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<tbody>
<tr>
<td>Downy Mildew Powdery Mildew+ (Erwinia amylovora)</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
</tbody>
</table>

### Rhizoctonia+ (5-7 liters in a intervals after plants have been established)

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Rate Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhizoctonia+ (5-7 liters in a intervals after plants have been established)</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
</tbody>
</table>

### Fusarium+ (5-7 liters in a intervals after plants have been established)

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Rate Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusarium+ (5-7 liters in a intervals after plants have been established)</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
</tbody>
</table>

### Pythium minimum of 100 gallons of water/acre; (5-7 liters in a intervals after plants have been established)

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Rate Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pythium minimum of 100 gallons of water/acre; (5-7 liters in a intervals after plants have been established)</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
</tbody>
</table>

### Phythophthora Foliar 1-3 quarts in a (5-7 liters in a intervals after plants have been established)

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Rate Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phythophthora Foliar 1-3 quarts in a (5-7 liters in a intervals after plants have been established)</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
</tbody>
</table>

### Xanthomonas campestris

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Rate Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xanthomonas campestris</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
</tbody>
</table>

### Anthracnose Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART Fungicide at intervals less than 3 days.

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Rate Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthracnose Farm Advisor or crop expert to determine disease severity. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
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<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
</tbody>
</table>

### Stone Fruits Crop Grouping including Olives:

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Rate Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stone Fruits Crop Grouping including Olives: Apricot, Cherry, Nectarine, Olive, Peach, Plum, Plumcot and Prune.</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
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</table>

### Root Dip 2 quarts/100 gallons of water, 2/3 fluid ounces/gallon of water (5 liters/1000 liters of water)

<table>
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<tr>
<th>Disease</th>
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</thead>
<tbody>
<tr>
<td>Root Dip 2 quarts/100 gallons of water, 2/3 fluid ounces/gallon of water (5 liters/1000 liters of water)</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
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<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
</tbody>
</table>

### Irrigation

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Rate Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
</tbody>
</table>

### Trunk Injection 3 teaspoons/inch of trunk instructions. Adjust application rate according to the amount of bark per section. Do not apply RAMPART Fungicide at intervals less than 3 days.

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Rate Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trunk Injection 3 teaspoons/inch of trunk instructions. Adjust application rate according to the amount of bark per section. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
<td>Overhead: 2-4 quarts in at least 100 gallons of water; (7-9 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>or</td>
<td>Drip: 2-3 quarts in at least 100 gallons of water; (5-7 liters in at least 1000 liters of water)</td>
</tr>
<tr>
<td>Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hectare)</td>
</tr>
<tr>
<td>Disease Application Method</td>
<td>Rate</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------</td>
</tr>
<tr>
<td><strong>Downy Mildew</strong></td>
<td>Foliar</td>
</tr>
<tr>
<td>Powdery Mildew**</td>
<td>or Aerial Application</td>
</tr>
</tbody>
</table>

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

**Tree Nuts Crop Grouping including Vines:** Almond, Beech nut, Betel nut, 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).

<table>
<thead>
<tr>
<th>Disease Application Method</th>
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<th>Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phytophthora</strong></td>
<td>Foliar</td>
<td>1-3 quarts in a minimum of 100 gallons of water/acre; (5-7 liters in a minimum of 1000 liters of water/hecate)</td>
</tr>
<tr>
<td>Pythium Fusarium*</td>
<td>or Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters of water/hecate)</td>
</tr>
<tr>
<td>Rhizoctonia+ Xanthomomas campestris</td>
<td></td>
<td>Disease Prevention Program*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide 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 Fungicide at intervals less than 3 days.</td>
</tr>
</tbody>
</table>

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+ Except CA

**Vegetables Crop Grouping including Miscellaneous Food Crops:** (Leafy, Root and Tuber) Amaranth (Chinese spinach, tamarlap, etc.) Arracacha, Arugula, Arrowroot, Artichoke (all types), Asparagus, Beet (all types), Burdock, Canna, Cardoon, Carrot, Cassava, Celeriac, Celery, Chayote, Cheruv (turnip-rooted), Chicory, Chilies, 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, Salsify (all types), Skirret, Spinach (all types), Sugarbeet, Sugarcane, Sweet Potato, Swiss chard, Tamarind, Tomato, 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 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).

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<tr>
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</thead>
<tbody>
<tr>
<td><strong>Downy Mildew</strong></td>
<td>Foliar</td>
<td>1-3 quarts in a minimum of 100 gallons of water/acre; (5-7 liters in a minimum of 1000 liters of water/hecate)</td>
</tr>
<tr>
<td>Powdery Mildew**</td>
<td>or Aerial Application</td>
<td>1-3 quarts in a minimum of 10 gallons of water/acre; (5-7 liters in a minimum of 75 liters/hecate)</td>
</tr>
</tbody>
</table>

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+ Except CA
## ORNAMENTALS

RAMPART® Fungicide is used for control of Pythium, Downy Mildew, Powdery Mildew, Phytophthora and various other diseases of ornamentals grown in commercial nurseries and greenhouses, golf courses, parks and commercial landscapes. RAMPART Fungicide may be applied to all ornamental and landscape plants including (but not limited to): Aglaonema, Aphelandra, Arborvitae, Aash, Azaleas, Bougainvilleas, Boxwood, Bushes, Cattleya skinneri, Cedars, Ceanothus, Cotonaster, Cissus, Difenbachia, Dogwood, Ferns, Ficus, Flowering Trees, Hibiscus, Hard Wood Trees, Holly, Home Lawns, Juniper, Magnolia Trees, Maple, Pines, Oaks, Palms, Peperomia, Phohtis, Pittosporum, Philodendron, Pleris, Pothos, Red woods, Rhododendron, Roses, Schefflera, Sempervivum, Shrubs, Spathiphyllum, Sycamore, Taus media, Zygocactus.

Apply RAMPART Fungicide prior to disease development in conjunction with good cultural 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 dormart or under heat or moisture stress. Allow foliage to completely dry after application. Do not apply when conditions favor wet tissue for prolonged periods (>4 hours).

### Pink Rot

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Method</th>
<th>Rate</th>
<th>Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Phytophthora erythroseptica)</td>
<td>Foliar or Aerial</td>
<td>3-5 quarts in a minimum of 20 gallons of water/acre; (5-7 liters in minimum of 100 liters of water/hectare)</td>
<td>Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
</tbody>
</table>

### Late Blight

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Method</th>
<th>Rate</th>
<th>Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Phytophthora infestans)</td>
<td>Soil Drench</td>
<td>12-24 fluid ounce/100 gallon of water or 1/8 to 1/4 fluid ounce per gallon of water; (1-2 liters/1000 liters of water)</td>
<td>Apply 1-2 pts. of diluted solution per sq. ft. Adjust volume as needed to thoroughly wet media. Apply at 2-3 week intervals and repeat as needed. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
</tbody>
</table>

### Root Dip

- **Disease Prevention Program**: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide 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 Fungicide at intervals less than 3 days. Apply diluted solution to thoroughly wet foliage. Apply at 2-3 week intervals and repeat as needed. Do not apply RAMPART Fungicide at intervals less than 3 days.

### Trunk Injection

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.

### Wire Sprays

- **Application Program**: Mix 1 to 2 pints of RAMPART Fungicide with enough water to wet one cubic yard of soil; mix immediately before potting. If conditions are favorable for disease development, it is recommended to make additional applications as a foliar spray or soil drench.

## BEDDING PLANTS

RAMPART® Fungicide is used for control of Downy Mildew, Powdery Mildew, Pythium, Phytophthora and various other diseases of bedding plants grown in commercial nurseries and greenhouses, golf courses, parks and commercial landscapes. RAMPART Fungicide may be applied to all bedding plants including: Ageratum, Algerian Ivy, Alyssum, Anthis, Artemisia, Aster, Baby’s Breath, Begonia, Caladium, Carnation, Chrysanthemum, Coleus, Columbine, Daisy, Delphinium, Easter Lily, English Ivy, Fuchsia, Gallardia, Geranium, Gymea, Impatiens, Marigold, Parsley, Petunia, Primex, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Verbena, Vinca, and Zinnia.

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 Prevention Program*:
- **Apply higher rate at 2-3 week intervals until control is reached.** Consult with Farm Advisor or crop expert to determine disease severity. Apply diluted solution to thoroughly wet foliage. Apply at 2-3 week intervals and repeat as needed. Do not apply RAMPART Fungicide at intervals less than 3 days.

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Method</th>
<th>Rate</th>
<th>Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phytophthora</strong></td>
<td>Foliar Spray</td>
<td>1-2 quarts/100 gallons water or 2/3 fluid ounce/gallon of water; (2.5-5 liters/1000 liters water)</td>
<td><strong>Disease Prevention Program</strong>*: Apply lower rate at 2-4 week intervals as plants become established. Do not apply RAMPART Fungicide at intervals less than 3 days. <strong>Disease Control Program</strong>: Apply higher rate at 2-3 week intervals until control is reached. Consult with Farm Advisor or crop expert to determine disease severity. Apply diluted solution to thoroughly wet foliage. Apply at 2-3 week intervals and repeat as needed. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
<tr>
<td><strong>Pythium</strong></td>
<td>Soil Drench</td>
<td>1/2 fluid ounce/gallon of water/acre; (2.5-5 liters/1000 liters water/acre)</td>
<td><strong>Disease Prevention Program</strong>*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide at intervals less than 3 days. <strong>Disease Control Program</strong>: Apply higher rate at 2-3 week intervals until control is reached. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
<tr>
<td><strong>Rhizoctonia</strong></td>
<td>Root Dip</td>
<td>2 quarts/100 gallons water; (2/3 fluid ounce/gallon of water)</td>
<td><strong>Dip transplants into diluted solution of RAMPART Fungicide.</strong> Thoroughly wet plant root mass immediately before transplanting. Keep roots submerged for 1 to 2 minutes.</td>
</tr>
<tr>
<td><strong>Fire Blight</strong></td>
<td><strong>Fusarium</strong></td>
<td>Trunk Injection</td>
<td><strong>Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.</strong></td>
</tr>
<tr>
<td>(Erwinia amylovora)</td>
<td><strong>Phytophthora</strong></td>
<td><strong>Trunk Injection</strong></td>
<td><strong>Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.</strong></td>
</tr>
<tr>
<td><strong>Anthracnose</strong></td>
<td><strong>Anthracnose</strong></td>
<td><strong>Trunk Injection</strong></td>
<td><strong>Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.</strong></td>
</tr>
</tbody>
</table>

*Do not graze livestock in treated commercial nurseries and/or plantations. Do not feed forage to livestock from treated nurseries and/or plantations.

+ Except CA

### TURF (INCLUDES RESIDENTIAL AND COMMERCIAL LAWN APPLICATIONS BY COMMERCIAL APPLICATORS)

RAMPART Fungicide is a systemic fungicide, which is used for the control of Pythium blight, Summer Complex (Bermuda and others), Dollar Spot, Grey Leaf Spot, Brown Patch, Anthracnose and damping-off diseases to turf grasses on sod farms and lawns, commercial turf production, golf courses (including tees and greens), parks and commercial landscapes. Begin preventive applications when conditions first favor disease and repeat at described intervals. Use higher rates under severe disease conditions.

<table>
<thead>
<tr>
<th>Disease</th>
<th>Application Method</th>
<th>Rate</th>
<th>Application Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pythium</strong></td>
<td>Foliar Spray</td>
<td>2-3 fluid ounces/1000 square feet; (20-30 milliliters/100 square meters)</td>
<td><strong>Apply amount in minimum of 2 gal. of water per 1,000 sq. ft.</strong> Apply at 10 to 21 day intervals as needed. Do not mow or irrigate treated areas until sprays have completely dried.</td>
</tr>
<tr>
<td>(Yellow Turf)</td>
<td></td>
<td></td>
<td>For sod farms and large areas: Apply diluted solution to thoroughly wet foliage. Apply at 2-3 week intervals and repeat as needed.</td>
</tr>
<tr>
<td><strong>Rhizoctonia</strong></td>
<td>Root Dip</td>
<td>3 quarts/100 gallons of water (10-15 liters/1000 liters of water)</td>
<td><strong>Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART Fungicide at intervals less than 3 days.</strong></td>
</tr>
<tr>
<td><strong>Bacterial Blight</strong></td>
<td>Root Dip</td>
<td>3 quarts/100 gallons of water (10-15 liters/1000 liters of water)</td>
<td><strong>Apply with normal irrigation schedule. Follow Disease Prevention Program or Disease Control Program as stated above. Do not apply RAMPART Fungicide at intervals less than 3 days.</strong></td>
</tr>
<tr>
<td><strong>Fusarium</strong></td>
<td><strong>Fusarium</strong></td>
<td>Trunk Injection</td>
<td><strong>Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.</strong></td>
</tr>
<tr>
<td>(Xanthomonas campestris)</td>
<td><strong>Fusarium</strong></td>
<td>Trunk Injection</td>
<td><strong>Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.</strong></td>
</tr>
<tr>
<td><strong>Anthracnose</strong></td>
<td><strong>Anthracnose</strong></td>
<td>Trunk Injection</td>
<td><strong>Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.</strong></td>
</tr>
</tbody>
</table>

### CONIFERS AND TREES IN COMMERCIAL NURSERIES, PLANTATIONS AND FORESTS, LANDSCAPES AND PARKS (INCLUDING CHRISTMAS TREES, OAKS AND PINES)

RAMPART Fungicide applied in conjunction with good cultural management practices will control Phytophthora root rot of conifers including (but not limited to): Douglas Fir, spruce and pines and other Phytophthora disease of Oaks (Sudden Oak Death) and forest trees. Use the higher rates when disease pressure is severe. Do not apply to trees that are under heat or moisture stress.

<table>
<thead>
<tr>
<th>Disease</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Phytophthora</strong></td>
<td>Foliar Spray</td>
<td>1-2 quarts/100 gallons water or 2/3 fluid ounce/gallon of water; (2.5-5 liters/1000 liters water)</td>
<td><strong>Disease Prevention Program</strong>*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide at intervals less than 3 days. <strong>Disease Control Program</strong>: Apply higher rate at 2-3 week intervals until control is reached. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
</tr>
<tr>
<td><strong>Pythium</strong></td>
<td>Soil Drench</td>
<td>1/2 fluid ounce/gallon of water/acre; (2.5-5 liters/1000 liters water/acre)</td>
<td><strong>Disease Prevention Program</strong>*: Apply lower rate at 2-4 week intervals after plants become established. Do not apply RAMPART Fungicide at intervals less than 3 days. <strong>Disease Control Program</strong>: Apply higher rate at 2-3 week intervals until control is reached. Do not apply RAMPART Fungicide at intervals less than 3 days.</td>
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<tr>
<td><strong>Rhizoctonia</strong></td>
<td>Root Dip</td>
<td>2 quarts/100 gallons water; (2/3 fluid ounce/gallon of water)</td>
<td><strong>Dip transplants into diluted solution of RAMPART Fungicide.</strong> Thoroughly wet plant root mass immediately before transplanting. Keep roots submerged for 1 to 2 minutes.</td>
</tr>
<tr>
<td><strong>Fire Blight</strong></td>
<td><strong>Fusarium</strong></td>
<td>Trunk Injection</td>
<td><strong>Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.</strong></td>
</tr>
<tr>
<td>(Erwinia amylovora)</td>
<td><strong>Phytophthora</strong></td>
<td><strong>Trunk Injection</strong></td>
<td><strong>Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.</strong></td>
</tr>
<tr>
<td><strong>Anthracnose</strong></td>
<td><strong>Anthracnose</strong></td>
<td><strong>Trunk Injection</strong></td>
<td><strong>Apply according to injection equipment instructions. Adjust rate based on injection equipment suggestions for specific applications.</strong></td>
</tr>
</tbody>
</table>

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

+ Except CA

### HOUSEHOLD PRODUCTS: FOR NON-COMMERCIAL APPLICATORS (NOT SUBJECT TO WORKER PROTECTION STANDARD)

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. Not registered for homeowner use in the state of New York.

1 pint (0.473 liters) makes 24 gallons of solution at maximum treatment rate. 1 quart (0.946 liters) makes 48 gallons of solution at maximum treatment rate. 1 gallon (3.785 liters) makes 192 gallons of solution at maximum treatment rate. 2½ gallons (9.463 liters) makes 480 gallons of solution at maximum treatment rate. 5 gallons (18.925 liters) makes 960 gallons of solution at maximum treatment rate.

### GENERAL APPLICATION INSTRUCTIONS

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

### COMPATIBILITY

Mixing RAMPART Fungicide with certain surfactants, foliar fertilizers or other pesticides may cause crop injury. RAMPART Fungicide is a slightly acidic buffer solution. Avoid mixing RAMPART Fungicide 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.

Test the compatibility of spray adjuvants (i.e. stickers, spreaders, wetting agents) with RAMPART Fungicide before use. Do not use acidifying type compatibility agents.

To determine the compatibility of RAMPART Fungicide 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.

**MIXING INSTRUCTIONS**

1. Fill the spray tank with ½ of the required volume of water.
2. Add the amount of RAMPART Fungicide as indicated under the Rate portion of the table below.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

This product may be applied up to the day of harvest.

**INSTRUCTIONS FOR APPLICATIONS**

**GARDEN CROPS, ORNAMENTALS, BEDDING PLANTS AND TREES (CONIFERS, OAKS, ETC.) & TURF**

RAMPART Fungicide is used for control of Pythium, Downy Mildew, Phytophthora (such as Sudden Oak Death, Phytophthora ramorum) and various other diseases (see list below) of ORNAMENTAL PLANTS AND TREES. Plants, which can be treated with RAMPART Fungicide, include:

**GARDEN CROPS**

RAMPART Fungicide is used for control of Downy Mildew, Powdery Mildew, Pythium, Phytophthora and various other diseases (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, Henna, Pythium Leak, Red Stele, Leather Rot, etc.) of garden crops. Apply RAMPART Fungicide to plants including (but not limited to): Almond, Apple, Apricot, Artichoke, Asparagus, Avocado, Baby Lettuce, Banana, Beet, Blackberry, Blueberry, Broadbean, Cane Berries, Carrot, Cherry, Chestnut, Chilies, Cinchona, Cinnamon, Citrus, Cole Crops, Corn, Cranberry, Crucifers, Cucurbits, Dates, Dry Beans, Eggplant, Fresh beans, Garlic, Grapes, Kiwi, Lettuce, Lima Beans, Macadamia, Melons, Mint, Nectarine, Nut Crops, Nutmeg, Okra, Olive, Onions, Papaya, Peach, Peanut, Pear, Peas, Peppers, Pineapple, Plum, Pome Fruit, Potato, Prune, Raspberry, Rhubarb, Root crops, Rosemary, Squash, Strawberry, String Beans, Stone Fruit, Sugarbeet, Sunflower, Tomato, Walnut.

**BEDDING PLANTS, TREES & ORNAMENTALS**


Make applications prior to disease development in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Do not exceed the use rates or apply more frequently than the specified interval or plant injury can occur. 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* (Sudden Oak Death), *Pythium*, *Rhizoctonia*, *Sclerotinia*, *Helminthosporium*, *Alternaria*, *Anthracnose* (Cotellonichium graminicola) | Foliar Spray | 3-6 fluid ounces / 1,000 sq. ft. (30-60 milliliters / 100 square meters) | Apply amount in minimum of 2 gal. of water/1,000 sq. ft. Apply at 7 to 21 day intervals as needed. Do not mow or irrigate treated areas until sprays have completely dried.

+ **Except CA**

**TURF**

RAMPART Fungicide is a systemic fungicide, which is used for the control of Pythium blight, Summer Complex (Bermuda and others), Dollar Spot, Grey Leaf Spot, Brown Patch, Anthracnose and damping-off diseases to turf grasses. Begin preventative applications when conditions favor disease and repeat at direct- ed intervals. Use higher rates under severe disease conditions.
### STORAGE AND DISPOSAL

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

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

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (risinate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI, for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 56 gallons: Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

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

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### 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 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 AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD “AS IS.” AND 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.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER’S OR USER’S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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