



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 6, 2022

Luiza Vietri Pereira  
Regional Regulatory Manager  
UPL NA Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406

Subject: Registration Review Label Mitigation for Propamocarb Hydrochloride  
Product Name: Promess Fungicide  
EPA Registration Number: 70506-613  
Application Date: 2/4/2019  
Decision Number: 584067

Dear Luiza Vietri Pereira:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Propamocarb Hydrochloride Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Page 2 of 2  
EPA Reg. No. 70506-613  
Decision No. 584067

If you have any questions about this letter, please contact Darius Stanton by phone at 202-566-2332, or via email at [stanton.darius@epa.gov](mailto:stanton.darius@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington".

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

[Text in brackets is optional]

PROPAMOCARB HYDROCHLORIDE	GROUP	28	FUNGICIDE
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# PROMESS® FUNGICIDE

For Control of Fungal Diseases on

**Cucurbits, Lettuce, Lima Beans[\*], Peppers, Potatoes[\*] and Tomatoes**

[\*Not registered for use in California.]

ACTIVE INGREDIENT:	% BY WT.
Propamocarb hydrochloride*	66.8%
OTHER INGREDIENTS.....	33.2%
TOTAL.....	100.0%

\*Propyl (3-dimethylamino)propylcarbamate hydrochloride  
Contains 6.0 lb active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN

## CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

See [front][back][side][inside] panel for First Aid Instructions and [Leaflet][Booklet] for complete  
Precautionary Statements and Directions for Use.

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p><b>FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA:</b> 1-866-303-6952 or +1-651-603-3432.</p> <p><b>FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident)</b> <b>CALL CHEMTREC:</b> 1-800-424-9300 or +1-703-527-3887.</p>	

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

EPA Reg. No. 70506-613

xxxxxxV006

[Batch Code will be placed on the container.]

Manufactured by:

UPL NA Inc.

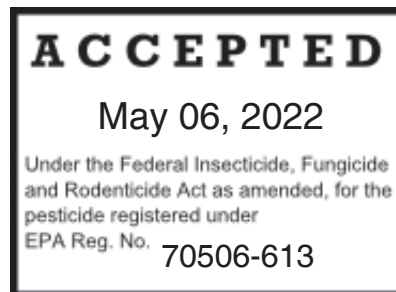
630 Freedom Business Center, Suite 402

King of Prussia, PA 19406

EPA Est. No.:

NET CONTENTS:

[Product of Belgium]



## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes. Harmful if absorbed through the skin. Avoid contact with skin or clothing. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves made of any waterproof material including polyethylene or polyvinyl chloride;
- Shoes plus socks.

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

### ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, closed 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.

Pilots must use an enclosed cab that meets the definition listed in the Worker Protection Standard for agricultural pesticides [40 CFR 170.305].

### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and change into clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or 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. Do not apply when weather conditions favor drift from the treated areas.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, 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 agency in your State responsible for pesticide regulation.

### RESTRICTION

Pilots must use an enclosed cab that meets the definition listed in the Worker Protection Standard for agricultural pesticides [40 CFR 170.305].

### SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### **Controlling Droplet Size – Ground Boom**

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

### **Controlling Droplet Size – Aircraft**

- Adjust Nozzles - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

### **BOOM HEIGHT – Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

### **RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

### **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

### **Boomless Ground Applications:**

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

### **Handheld Technology Applications:**

- Take precautions to minimize spray drift.

### 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 and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during **the restricted-entry interval (REI) of 12 hours**.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil or water is:

- Coveralls;
- Chemical-resistant gloves made of any waterproof material;
- Shoes plus socks.

### PRODUCT INFORMATION

**PROMESS® FUNGICIDE** is a completely water miscible fungicide concentrate. **PROMESS FUNGICIDE** is intended for use on cucurbits, lettuce, lima beans[\*], peppers, potatoes[\*] and tomatoes. It can be used as a stand-alone product or in combination as a tank-mixture with other fungicides that are registered and used on these crops which are subject to Downy Mildew (*Bremia lactucae* and *Pseudoperonospora cubensis*), Pythium Blight (*Pythium* spp.), Late Blight (*Phytophthora infestans*), and Early Blight (*Alternaria solani*). Use a broad-spectrum fungicide if these diseases coexist with Pythium Blight. **PROMESS FUNGICIDE** can be applied either as a broadcast or as an over the row banded application.

**[\*Not registered for use in California.]**

For greenhouse applications on cucurbits, leaf lettuce, peppers, and tomatoes use **PROMESS FUNGICIDE** in rotation with other effective fungicides, if available to control diseases caused by *Pythium* and *Phytophthora* spp. during plant propagation and greenhouse production.

### RESISTANCE MANAGEMENT

For resistance management, **PROMESS FUNGICIDE** contains a Group 28 fungicide. Any fungal population may contain individuals naturally resistant to **PROMESS FUNGICIDE** and other Group 28 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed.

It is known that certain plant pathogens develop resistance to products with the same mode of action when used repeatedly for disease control. **PROMESS FUNGICIDE** is recommended as part of an Integrated Pest Management (IPM) program to attempt to minimize disease resistance to fungicides. These include rotating and/or tank-mixing with products having different modes of action, limiting the total number of application per year, using disease-resistant crop varieties, cultural practices, pest scouting, and disease forecasting systems, which reduce unnecessary applications of pesticides. For good resistance management practices, follow the specific use directions on the label and review State Cooperative Extension Service recommendations for effective disease resistance management programs in your area.

### APPLICATION INFORMATION

Begin applications when conditions are favorable for disease, but before infection, according to the use directions below.

#### Mixing Procedures:

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray-tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

#### **PROMESS FUNGICIDE Alone:**

Add 1/2 of the required amount of water to the mix-tank. With the agitator running, add the **PROMESS**

**FUNGICIDE** to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the **PROMESS FUNGICIDE** has completely and uniformly dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

**PROMESS FUNGICIDE + Tank-mix Partners:**

Add 1/2 of the required amount of water to the mix-tank. Start the agitator running before adding any tank-mix partners. Add tank-mix partners in this order: products packaged in water-soluble packaging, wettable powders, wettable granules, dry flowables, liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank-mix partner to become fully and uniformly dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank-mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture.

If using **PROMESS FUNGICIDE** in a tank-mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations, which appear on the tank-mix product label. No label dosage rate may be exceeded, and the most restrictive label precautions and limitations must be followed. This product must not be mixed with any product that prohibits such mixing. Tank-mixtures or application of other products referenced on this label are permitted only in those states in which the referenced products are registered.

**Banded Applications:** Seed potatoes can be a significant primary source of late blight, and an early fungicide application can minimize this threat. In other crops, infected transplants or unusual weather conditions may increase the threat of disease when the plants are small. **PROMESS FUNGICIDE** may be applied as an early season post-emergence banded application. When applying **PROMESS FUNGICIDE** in a band, do not concentrate the dose rate in the banded area. Thorough coverage of the plants is essential for optimum disease control; therefore, adjust the band width depending on plant height or size. Repeated applications will result in improved disease control.

When using a banded application, the actual amount of **PROMESS FUNGICIDE** applied will be proportionately less than what would be applied with a broadcast spray. Use the following formula to calculate the amount of **PROMESS FUNGICIDE** needed per crop acre when making band applications. Apply band applications of **PROMESS FUNGICIDE** in a minimum of 5 gallons of water per acre.

$$\frac{\text{Band width in inches}}{\text{Row spacing in inches}} \times \text{Broadcast rate (pts/acre)} = \text{Amount needed per acre of field in pts/A.}$$

**Broadcast Applications:** Using ground spray equipment, apply **PROMESS FUNGICIDE** at rates specified below. Thorough uniform coverage is essential for disease control. Apply a **PROMESS FUNGICIDE** tank-mixture in a minimum of 15 gallons of water per acre. Apply as a foliar spray in sufficient water to obtain thorough coverage. Use the shorter spray intervals when disease pressure is moderate to heavy. Check with your local Cooperative Extension Service if you are unsure about whether these conditions exist.

**Aerial Applications:** Apply **PROMESS FUNGICIDE** at rates specified below using fixed wing or rotary aircraft equipment at a minimum of 5 gallons of water per acre unless otherwise directed under specific crop labeling. Thorough uniform coverage is essential for disease control. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Avoiding spray drift at the application site is the responsibility of the applicator. The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations:

- The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.
- To avoid spray drift, do not apply when winds exceed 10 mph.

Where States have more stringent regulations, they must be observed.



## **APPLICATION THROUGH IRRIGATION SYSTEMS**

Apply this product only through center pivot, motorized-lateral move, traveling gun, solid set or portable (wheel move, side roll, end tow, or hand move) and drip irrigation systems. **PROMESS FUNGICIDE** may also be applied by drip irrigation or rockwool/nutrient solution systems in the greenhouse. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. Contact State Extension Service specialists, equipment manufacturers or other experts if you have questions about calibration. A person knowledgeable of the chemigation system, and responsible for its operation or under the supervision of the responsible person, shall shut the system down, and make necessary adjustments should the need arise. **PROMESS FUNGICIDE** has not been sufficiently tested when applied through irrigation systems to assure consistent product performance for all labeled uses. The following application techniques are provided for user reference but do not constitute a warranty of fitness for application through sprinkler or drip irrigation equipment. Users must check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler or drip irrigation equipment.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label prescribed safety devices for public water systems are in place. 'Public water system' means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir-tank prior to pesticide introduction. There must be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir-tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. Pesticide injection pipeline must 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 systems must contain functional interlocking controls, to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, including 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. Spray mixture in the chemical supply-tank must be agitated at all times, otherwise settling and uneven application may occur. Apply pesticide continuously for the duration of the water application. For mixing instructions, please refer to specific use directions in the **APPLICATION INFORMATION** section.

This product may be used through two basic types of irrigation systems as outlined in **Sections A and B** below. 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. Determine which type of irrigation system is in place, then refer to the appropriate directions provided below for each type. See crops section on the label for directed treatment rates and additional use information.

### **A. Center Pivot, Motorized-Lateral Move and Traveling Gun Irrigation Equipment**

For injections of pesticides, these continuously moving systems must use a positive displacement injection pump of either diaphragm or piston type and be constructed of materials that are compatible with pesticides. They must also be capable of being fitted with a system interlock and capable of injection at pressures approximately 2 to 3 times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems. Thoroughly mix specified amount of this product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply-tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run but continue to operate irrigation system until this product has been cleared from last sprinkler head.



## **B. Solid-Set, Portable (Wheel Move, Side Roll, End Tow, or Hand Move) and Drip Irrigation Equipment**

With stationary systems, an effectively designed in-line Venturi applicator unit is preferred to support even and quick distribution. However, a positive-displacement pump can also be used. For solid set systems, determine acreage covered by sprinkler. Fill the tank of injection equipment with water and adjust flow to use contents over 30 to 45 minutes. Mix specified amount of this product for acreage to be covered with water so that the total mixture of this product plus water in the injection-tank is equal to the quantity of water used during calibration. Operate entire system at normal pressures directed by the manufacturer of injection equipment used, for amount of time established during calibration. This product can be injected during the irrigation cycle or as a separate application.

For drip irrigation systems, introduce **PROMESS FUNGICIDE** into irrigation solution for a period sufficient to distribute the product uniformly to the crop, and **PROMESS FUNGICIDE** should be added near the end of the normal irrigation cycle so that subsequent watering will not flush the product from the root zone. Stop injection equipment with any system after treatment is completed and continue to operate irrigation system until this product has been cleared from last sprinkler head or drip irrigation line. Greenhouses must be constructed of materials that are compatible with pesticides.

### **COMPATIBILITY**

**PROMESS FUNGICIDE** is compatible with most commonly used fungicide, herbicide, insecticide, and foliar nutrient products. However, the physical compatibility of **PROMESS FUNGICIDE** with all potential tank-mix partners has not been fully investigated. If tank-mixing with other pesticides is desirable, conduct a jar test with the volumes and rates typically used in agricultural application. Using a small container of water, add the proportionate amounts of the products: wettable powders and water-dispersible granular products first, then liquid flowables and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 15 minutes. Look for signs of separation, globules, sludge, flakes, or other precipitates. Physical compatibility is indicated if the combination remains mixed or can be remixed readily.

THE CROP SAFETY OF ALL POTENTIAL TANK-MIXES WITH **PROMESS FUNGICIDE**, INCLUDING ADDITIVES AND OTHER PESTICIDES HAS NOT BEEN TESTED ON ALL CROPS. BEFORE APPLYING ANY TANK-MIXTURE NOT SPECIFIED ON THIS LABEL, **CONFIRM THE SAFETY OF THE TANK-MIXTURE TO THE TARGET CROP.**

### **CROP ROTATION RESTRICTIONS**

Crops on this label may be rotated anytime, following the last application of **PROMESS FUNGICIDE**. Do not rotate to root and leafy vegetables for 30 days following the last application of **PROMESS FUNGICIDE**. Do not rotate to winter wheat and all other crops for 120 days following the last application of **PROMESS FUNGICIDE**.

## CROP USE DIRECTIONS

CUCURBITS		
DISEASE	PROMESS FUNGICIDE APPLICATION (Pints per Acre)	COMMENTS
Downy Mildew ( <i>Pseudoperonospera cubensis</i> )  <b>Suppression:</b> Phytophthora Blight[*] ( <i>Phytophthora capsici</i> )	1.2 or 0.6 – 1.2 plus Tank-Mix Partner	Begin applications when conditions are favorable for disease, but before infection.  Continue on 7- to 14-day intervals until the threat of disease is over.  For Phytophthora Blight[*] suppression, ground application may be made with a sprayer equipped with three nozzles per row with two nozzles directed to ensure thorough coverage of the lower portion of the plants.  When applying <b>PROMESS FUNGICIDE</b> at intervals longer than 7 days, alternate with an application of a contact fungicide midway between <b>PROMESS FUNGICIDE</b> applications. With moderate to heavy disease pressure, the shorter spray intervals may be used. Check with your local Cooperative Extension Service if you are unsure about whether these conditions exist.
Pythium root rots and seedling diseases ( <i>Pythium</i> spp.)	1.2	<b>PROMESS FUNGICIDE</b> can be applied by directed nozzles to the lower portion of the plants and surrounding soil, or via drip irrigation, transplant/setting water, or by sprinklers.
<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not exceed 1.2 pints of <b>PROMESS FUNGICIDE</b> per acre per application.</li> <li>• Do not exceed a total of 6 pints of <b>PROMESS FUNGICIDE</b> per acre per crop cycle per year.</li> <li>• Do not exceed a total of 4.5 lb ai/acre per crop cycle per year.</li> <li>• A maximum number of 5 applications may be made per crop cycle per year.</li> <li>• Do not apply within 2 days of harvest for cucurbits.</li> </ul> [*Not registered for use in California.]		

LETTUCE (HEAD and LEAF)		
DISEASE	PROMESS FUNGICIDE APPLICATION (Pints per Acre)	COMMENTS
Downy Mildew ( <i>Bremia lactucae</i> )	2.0 or 1.33 – 2.0 plus Tank-Mix Partner	Begin applications when conditions are favorable for disease development, but before infection. Continue applications on a 7- to 10-day interval until threat of disease is over.  Use <b>PROMESS FUNGICIDE</b> on a 5-day schedule if signs of infection are present and conditions are favorable for disease development.  Check with your local Cooperative Extension Service if you are unsure about whether these conditions exist.  For aerial applications use a minimum of 10 gallons of spray.
Pythium root rots and seedling diseases ( <i>Pythium</i> spp.)	2.0	<b>PROMESS FUNGICIDE</b> can be applied by directed nozzles to the lower portion of the plants and surrounding soil, or via drip irrigation, transplant/setting water, or by sprinklers.
<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not exceed 2 pints of <b>PROMESS FUNGICIDE</b> per acre per application.</li> <li>Do not exceed a total of 8 pints of <b>PROMESS FUNGICIDE</b> per acre per crop cycle per year.</li> <li>Do not exceed a total of 6 lb ai/acre per crop cycle per year.</li> <li>A maximum number of 4 applications may be made per crop cycle per year.</li> <li>Do not apply within 2 days of harvest for lettuce.</li> </ul>		

LIMA BEANS[*] (For Use East of the Rocky Mountains Only)		
DISEASE	PROMESS FUNGICIDE APPLICATION (Pints per Acre)	COMMENTS
Downy Mildew ( <i>Phytophthora phaesoli</i> )	2.0	Begin applications when conditions are favorable for disease development, but before infection. Continue applications on a 7-day interval until threat of disease is over.
Pythium root rots and seedling diseases ( <i>Pythium</i> spp.)	2.0	<b>PROMESS FUNGICIDE</b> can be applied by directed nozzles to the lower portion of the plants and surrounding soil, or via drip irrigation, transplant/setting water, or by sprinklers.
<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not exceed 2 pints of <b>PROMESS FUNGICIDE</b> per acre per application.</li> <li>Do not exceed a total of 8 pints of <b>PROMESS FUNGICIDE</b> per acre per crop cycle per year.</li> <li>Do not exceed a total of 6 lb ai/acre per crop cycle per year.</li> <li>A maximum number of 4 applications may be made per crop cycle per year.</li> <li>Do not apply within 12 hours of harvest for lima beans.</li> </ul> <b>[*Not registered for use in California.]</b>		

<b>PEPPERS</b>		
<b>DISEASE</b>	<b>PROMESS FUNGICIDE APPLICATION (Pints per Acre)</b>	<b>COMMENTS</b>
<b>Suppression:</b> Phytophthora Blight[*] <i>(Phytophthora capsici)</i>	1.2	<p>Begin applications when conditions are favorable for disease development, but before infection. Continue applications on a 7- to 14-day interval until threat of disease is over.</p> <p>When applying <b>PROMESS FUNGICIDE</b> at intervals longer than 7 days, alternate with an application of a contact fungicide midway between <b>PROMESS FUNGICIDE</b> applications.</p> <p>For Phytophthora Blight[*] suppression, ground application may be made with a sprayer equipped with three nozzles per row with two nozzles directed to ensure thorough coverage of the lower portion of the plants.</p> <p>With moderate to heavy disease pressure use shorter specified spray intervals. Check with your local Cooperative Service Extension Service if you are unsure about whether those conditions exist.</p>
Pythium root rots and seedling diseases <i>(Pythium spp.)</i>	1.2	<p><b>PROMESS FUNGICIDE</b> can be applied by directed nozzles to the lower portion of the plants and surrounding soil, or via drip irrigation, transplant/setting water, or by sprinklers.</p>
<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not exceed 1.2 pints of <b>PROMESS FUNGICIDE</b> per acre per application.</li> <li>• Do not exceed a total of 6 pints of <b>PROMESS FUNGICIDE</b> per acre per crop cycle per year.</li> <li>• Do not exceed a total of 4.5 lb ai/acre per crop cycle per year.</li> <li>• A maximum number of 5 applications may be made per crop cycle per year.</li> <li>• Do not apply within 5 days of harvest for peppers.</li> </ul> <p>[*Not registered for use in California.]</p>		

POTATOES[*]		
DISEASE	PROMESS FUNGICIDE APPLICATION (Pints per Acre)	COMMENTS
Late Blight ( <i>Phytophthora infestans</i> )  Early Blight ( <i>Alternaria solani</i> )	0.7 - 1.2 plus Tank-Mix Partner	<p>Begin applications when conditions are favorable for disease, but before infection. Continue on 7- to 10-day intervals until the threat of disease is over.</p> <p>The low rate and longer spray interval may be used early in the season before canopy closure when disease pressure may be light. After canopy closure switch to the higher rate and use the shorter interval.</p> <p>Tank-mix combinations of <b>PROMESS FUNGICIDE</b> and chlorothalonil, maneb, or mancozeb are highly recommended for control of Late Blight and Early Blight. Follow the use directions and rates on the respective labels for Late Blight control.</p> <p>Tuber blight suppression will result as a consequence of good foliar blight control, complete killing of vines before harvest, and proper tuber storage conditions.</p>
<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply within 14 days of harvest for potatoes.</li> <li>• Do not exceed 1.2 pints of <b>PROMESS FUNGICIDE</b> per acre per application.</li> <li>• Do not exceed a total of 6 pints of <b>PROMESS FUNGICIDE</b> per acre per crop cycle per year.</li> <li>• Do not exceed a total of 4.5 lb ai/acre per crop cycle per year.</li> <li>• A maximum number of 5 applications may be made per crop cycle per year.</li> <li>• For aerial application, apply at a minimum of 6 gallons of spray mixture per acre to assure uniform coverage.</li> </ul> <p><b>[*Not registered for use in California.]</b></p>		

<b>TOMATOES</b>		
<b>DISEASE</b>	<b>PROMESS FUNGICIDE APPLICATION (Pints per Acre)</b>	<b>COMMENTS</b>
Late Blight ( <i>Phytophthora infestans</i> )  Early Blight ( <i>Alternaria solani</i> )	0.7 - 1.5 plus Tank-Mix Partner	<p>Begin applications when conditions are favorable for disease, but before infection.</p> <p>Continue on 7- to 10-day intervals until the threat of disease is over. The low rate and longer spray interval may be used early in the season before canopy closure when disease pressure may be light. After canopy closure switch to the higher rate and use the shorter interval.</p> <p>Tank-mix combinations of <b>PROMESS FUNGICIDE</b> and chlorothalonil, maneb, or mancozeb are highly recommended for control of tomato Late Blight (<i>Phytophthora infestans</i>) and Early Blight (<i>Alternaria solani</i>).</p>
Pythium root rots and seedling diseases ( <i>Pythium</i> spp.)	1.5	<b>PROMESS FUNGICIDE</b> can be applied by directed nozzles to the lower portion of the plants and surrounding soil, or via drip irrigation, transplant/setting water, or by sprinklers.
<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 7.5 pints (5.6 lb total ai per acre) of <b>PROMESS FUNGICIDE</b> per year.</li> <li>• Do not exceed 1.5 pints of <b>PROMESS FUNGICIDE</b> per acre per application.</li> <li>• Do not exceed a total of 7.5 pints of <b>PROMESS FUNGICIDE</b> per acre per crop cycle per year.</li> <li>• Do not exceed a total of 6.5 lb ai/acre per crop cycle per year.</li> <li>• A maximum number of 5 applications may be made per crop cycle per year.</li> <li>• Do not apply within 5 days of harvest for tomatoes.</li> </ul>		



<b>GREENHOUSE USE (CUCURBITS, LEAF LETTUCE, PEPPERS and TOMATOES)</b>			
<p><b>PROMESS FUNGICIDE</b> applications are recommended for prevention of root rot and damping-off on cucurbits, leaf lettuce, peppers and tomatoes caused by <i>Pythium</i> spp. and <i>Phytophthora</i> spp.</p> <p><b>PROMESS FUNGICIDE</b> requires no agitation after initial mixing and is recommended at all stages of plant propagation and development including seeding, transplanting and potting. Use stock solutions of <b>PROMESS FUNGICIDE</b> within one day of mixing. Do not mix with other products. Prevent intense sunlight after application by applying <b>PROMESS FUNGICIDE</b> in the evening. Do not apply <b>PROMESS FUNGICIDE</b> to dry rockwool or other growing media without first pre-wetting with water. Phytotoxicity may occur if <b>PROMESS FUNGICIDE</b> is applied directly to dry growing media, especially in intense sunlight.</p>			
<b>USE PATTERN</b>	<b>USE DIRECTIONS</b>		
<b>PRESEEDING AND/OR SEEDLING TREATMENT (before transplanting)<sup>1</sup></b>	<p><b>ROCKWOOL CUBE SATURATION:</b> Prepare a 1:1000 stock solution (<i>for example - 12.8 fl oz product in 100 gallons water</i>). Apply as a drench to pre-wet cubes at a rate of 3.4 fl oz (100 ml) - 6.8 fl oz (200 ml) stock solution per cube to saturate. (<i>100 gallons applied properly will treat 3800 to 1900 plants, respectively</i>).</p> <p><b>SEED BEDS – SOIL or without SOIL:</b> In a minimum of 50 gallons water/1000 sq ft apply: At seeding – 32 fl oz product/1000 sq ft (1.5 lb ai/1000 sq ft). After emergence - 16 fl oz product/1000 sq ft (0.75 lb ai/1000 sq ft).</p>		
<b>GREENHOUSE TREATMENT (after transplanting)<sup>2</sup></b>	<p><b>DRIP SYSTEM or SOIL DRENCH:</b> Prepare a 1:1000 stock solution (<i>for example - 12.8 fl oz product in 100 gallons water</i>). For the first two weeks after transplanting, apply through drip system at a rate of 3.4 fl oz (100 ml) stock solution per cube to avoid runoff and cover root area. After 2 weeks, apply through drip system at a rate of 3.4 fl oz (100 ml) - 6.8 fl oz (200 ml) stock solution per cube. (<i>100 gallons applied properly will treat 3800 to 1900 plants, respectively</i>).</p> <p>Evening applications of <b>PROMESS FUNGICIDE</b> by drip irrigation will reduce leaching or washing of the product from the root zone and may result in improved control. See above regarding potential phytotoxicity.</p>		
	<p><b>FOLIAR TREATMENT (Leaf Lettuce only)<sup>3</sup>:</b> See field use directions. Do not harvest for 2 days after greenhouse foliar treatment.</p>		
	<b>NUMBERS OF PLANTS PER ACRE</b>	<b>AMOUNT PRODUCT PER APPLICATION PER ACRE</b>	<b>AMOUNT PRODUCT PER CROPPING CYCLE*</b>
<b>MAXIMUM USE RATES</b>	6,000 10,000 14,000	41.3 fl oz (1.94 lbs ai/A) 68.8 fl oz (3.23 lbs ai/A) 96.4 fl oz (4.52 lbs ai/A)	248 fl oz (11.6 lbs ai/A) 413 fl oz (9.4 lbs ai/A) 578 fl oz (27.1 lbs ai/A)
<p><b>RESTRICTIONS:</b> Up to 6 total applications are allowed as follows:</p> <p><sup>1</sup> Do not apply more than 2 pre-seeding and/or seedling applications per cropping cycle*.</p> <p><sup>2</sup> Do not apply more than 4 total applications after transplanting per cropping cycle*.</p> <p><sup>3</sup> Do not apply more than 2 foliar applications per cropping cycle*.</p> <p>*Applications are per cropping cycle where growing media is replaced at the end of harvest.</p>			

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container and keep tightly closed. Store in a cool, dry, secure 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 HANDLING: Nonrefillable Containers: Do not reuse or refill this container.** Offer for recycling, if available or dispose of in trash or in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Clean container promptly after emptying.

**Nonrefillable container equal to or less than 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 1/4 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.

**Nonrefillable Container 5 gallons to bulk:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix-tank. Fill the container 1/4 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. Empty the rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Repeat this procedure two more times.

### Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of UPL NA Inc and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer.

UPL NA 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, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to UPL NA Inc and is subject to the inherent risks described above.

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