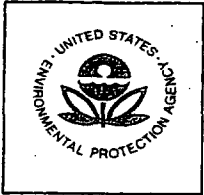


67690-38

07-13-2010

1/26



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7504P)  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

EPA Reg. Number:  
67690-38

Date of Issuance:  
JUL 13 2010

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:  
Pentathlon LF

Name and Address of Registrant (include ZIP Code):  
SePRO Corporation  
11550 North Meridian Street, Suite 600  
Carmel, IN 46032

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is reregistered in accordance with FIFRA provided that you:

- 1) Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.

Signature of Approving Official:

Mary Waller  
Product Manager 21  
Fungicide Branch  
Registration Division (7504P)

Date:

JUL 13 2010

2) Based on toxicity ranking per the acute toxicity review, the First Aid statements should be placed on the label in the following order:

“IF ON SKIN OR CLOTHING:...

IF IN EYES:...

IF INHALED:...

IF SWALLOWED:...”

3) Per the acute toxicity review, chemical-resistant glove are needed for all handlers. The text “except groundboom applicators, and airblast applicators” appearing in the handler PPE section must be deleted.

Note: Because pilots must apply the product in an enclosed cockpit (an engineering control to reduce exposure), gloves are not required. The glove statement should be revised to read “chemical-resistant gloves (except for pilots).”

4) The text “Professional applications to golf courses and industrial (office) parks are not within the scope of the Worker Protection Standard” must be deleted from the Non-Agricultural Use Requirements box.

5) The Agency recommends that the spray drift section be revised to follow the format outlined below. Additional text, identified in bold type below, must be added to the label:

Spray Drift Management

A variety of factors....

**Wind Speed**

Do not apply at wind speeds greater than 15 mph.

**Temperature Inversions**

If applying at wind speeds less than 3 mph...

**Other State and Local Requirements**

Applicators must follow all state and local pesticide drift requirements regarding application of mancozeb....

**Equipment**

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

Aerial application (not permitted on sod farms and golf courses)

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EPA Reg. 67690-38  
Page 3

-The boom length....

**Ground boom application**

- Do not apply with a nozzle height greater than 4 feet..."

6) Per the RED, the label must clearly state that use on turfgrass in residential settings and in athletic fields is prohibited.

7) On page 2, delete "recommended" from "fungicide recommended for use as a spray".

8) To the Hazards to Humans and Domestic Animals section delete "remove contaminated clothing and wash clothing before reuse".

9) On page 11, delete "general" from "general chemigation information". On page 13, change "not intended for use on fruit trees by homeowners" to "not intended for use on fruit trees by non-professional applicators". On page 20, delete "other similar non-residential areas": All use sites must be specified. Delete "not for homeowner use". Change "this product is not recommended for the treatment to marigolds" to "Do not treat marigolds".

10) NOTE: 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 the label is enclosed for your records. You must submit one copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this letter or the next round of printing must bear the new revised label. If these EPA conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA. Your release for shipment of the product constitutes acceptance of these conditions. This label supersedes all other previously accepted labels. If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov.

Enclosure: Product Chemistry Review  
Acute Toxicology Review

# Pentathlon\* LF

## Fungicide

### Flowable

EPA Reg. No. 67690-38

**Registration Notes:** Revised submission to comply with the Mancozeb RED, plus addition of pesticide resistance management language.

#### Label changes:

1. Multiple label changes throughout per the Mancozeb RED.
2. Per PRN 2001-5, added language pertaining to pesticide resistance management.
3. Compliance with PRN 2007-4 by revising storage and disposal language for:
  - a. Nonrefillable, rigid containers 5 gal or less; and
  - b. Nonrefillable, rigid containers greater than 5 gallons.
4. Corrected minor typographical errors and formatting throughout label as permitted by PRN 98-10.

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated:**  
**JUL 13 2010**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

67690-38

[Base label for Nonrefillable, Rigid containers 5 gal or less]



GROUP M3 FUNGICIDE

# Pentathlon\* LF

Fungicide  
Flowable

**A BROAD SPECTRUM FUNGICIDE RECOMMENDED FOR USE AS A SPRAY FOR THE CONTROL OF MANY IMPORTANT PLANT DISEASES ON FLOWERS, FOLIAGE PLANTS, ORNAMENTALS AND TURFGRASSES.**

**Active Ingredient**

Mancozeb, a coordination product of zinc ion and manganese ethylenebisdithiocarbamate in which the ingredients are:.....37.0%

Manganese <sup>++</sup> .....	7.4%
Zinc <sup>++</sup> .....	0.9%
Ethylenebisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ) <sup>-</sup> .....	28.7%

**ACCEPTED**  
with **COMMENTS**  
In EPA Letter Dated:

**JUL 13 2010**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

**Other Ingredients**.....63.0%  
**TOTAL**.....100.0%

Contains 4.0 pounds Mancozeb per gallon of product

67690-38

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**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 this label, find someone to explain it to you in detail).

**Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse. Causes moderate eye irritation.**

FIRST AID	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further 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>

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<p><b>If in eyes</b></p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<p><b>If swallowed</b></p>	<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 the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic organisms. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 cleaning equipment or disposing of equipment washwater or rinsate.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.  
**Pesticide Storage: Important** Keep in a cool place but not below 32° F. Temperature extremes will affect the quality of Pentathlon LF. Store product in original container only, away from other pesticides, fertilizer, food or feed.  
**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.  
**Nonrefillable Container Disposal (rigid, 5 gallons or less):** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 the procedure two more times. Then offer for recycling (if available) or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refer to the label booklet for additional precautionary information and *Directions for Use*.

**NOTICE:** Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.

For additional information on our products, please visit [www.sepro.com](http://www.sepro.com).

EPA Reg. No. 67690-38  
 FPL092409

EPA Est. No. \_\_\_\_\_  
 SPC - \_\_\_\_\_

SePRO Corporation 11550 N. Meridian Street, Suite 600, Carmel, IN 46032, U.S.A.

Fungicide

Net Contents \_\_\_\_\_

\*Trademark of SePRO Corporation

[Base label for Nonrefillable, Rigid containers greater than 5 gal]



GROUP M3 FUNGICIDE

# Pentathlon\* LF

Fungicide  
Flowable

**A BROAD SPECTRUM FUNGICIDE RECOMMENDED FOR USE AS A SPRAY FOR THE CONTROL OF MANY IMPORTANT PLANT DISEASES ON FLOWERS, FOLIAGE PLANTS, ORNAMENTALS AND TURFGRASSES.**

### Active Ingredient

Mancozeb, a coordination product of zinc ion and manganese ethylenebisdithiocarbamate in which the ingredients are: 37.0%

Manganese<sup>++</sup> ..... 7.4%

Zinc<sup>++</sup> ..... 0.9%

Ethylenebisdithiocarbamate ion (C<sub>4</sub>H<sub>6</sub>N<sub>2</sub>S<sub>4</sub>)<sup>-</sup> ..... 28.7%

Other Ingredients ..... 63.0%

**TOTAL** ..... 100.0%

Contains 4.0 pounds Mancozeb per gallon of product

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### 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 this label, find someone to explain it to you in detail).

**Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse. Causes moderate eye irritation.**

FIRST AID	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further 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>

\*Trademark of SePRO Corporation

<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. 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 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 the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b>.</p>	

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic organisms. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 cleaning equipment or disposing of equipment washwater or rinsate.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage: Important** Keep in a cool place but not below 32°F. Temperature extremes will affect the quality of Pentathlon LF. Store product in original container only, away from other pesticides, fertilizer, food or feed.

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

**Nonrefillable Container Disposal (rigid, larger than 5 gallons):** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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, treatment area, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling (if available) or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refer to the label booklet for additional precautionary information and *Directions for Use*.

**NOTICE:** Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* inside label booklet.

For additional information on our products, please visit [www.sepro.com](http://www.sepro.com).

EPA Reg. No. 67690-38  
FPL092409

EPA Est. No. \_\_\_\_\_  
SPC - \_\_\_\_\_

SePRO Corporation 11550 N. Meridian Street, Suite 600, Carmel, IN 46032, U.S.A.

**Fungicide**

**Net Contents** \_\_\_\_\_

\*Trademark of SePRO Corporation



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[Front of label booklet, ALL containers]



GROUP M3 FUNGICIDE

# Pentathlon\* LF

Fungicide  
Flowable

**A BROAD SPECTRUM FUNGICIDE RECOMMENDED FOR USE AS A SPRAY FOR THE CONTROL OF MANY IMPORTANT PLANT DISEASES ON FLOWERS, FOLIAGE PLANTS, ORNAMENTALS AND TURFGRASSES.**

**Active Ingredient**

Mancozeb, a coordination product of zinc ion and manganese ethylenebisdithiocarbamate in which the ingredients are:.....37.0%

Manganese <sup>++</sup> .....	7.4%
Zinc <sup>++</sup> .....	0.9%
Ethylenebisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ) <sup>-</sup> .....	28.7%

Other Ingredients .....63.0%  
**TOTAL** .....100.0%

Contains 4.0 pounds Mancozeb per gallon of product

## 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 this label, find someone to explain it to you in detail).

<b>FIRST AID</b>	
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further 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>
<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. 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 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 the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or</p>	

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going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

**Refer to the inside of the label booklet for additional precautionary information and *Directions for Use* including *Storage and Disposal*.**

**NOTICE: Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet.**

For additional information on our products, please visit [www.sepro.com](http://www.sepro.com).

EPA Reg. No. 67690-38  
FPL092409

EPA Est. No. \_\_\_\_\_  
SPC - \_\_\_\_\_

**SePRO Corporation 11550 N. Meridian Street, Suite 600, Carmel, IN 46032, U.S.A.**

**Fungicide**

**Net Contents \_\_\_\_\_**

[Label Booklet Text]

## PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

### CAUTION / PRECAUCIÓN

Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse. Causes moderate eye irritation.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistance category selection chart.

**Mixers, loaders, applicators, and other handlers must wear:**

- Long-sleeved shirt and long pants;
- Shoes and socks; and
- Chemical-resistant gloves made of any waterproof material (except pilots, groundboom applicators, and airblast applicators).

In addition, mixers/loaders supporting chemigation applications to turf on sod farms must wear a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, R, P or HE filter.

See engineering controls for additional requirements.

Follow the 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. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### ENGINEERING CONTROLS

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)].

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

#### USER SAFETY RECOMMENDATIONS

**Users should:**

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

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic organisms. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 cleaning equipment or disposing of equipment washwater or rinsate.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

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

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

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 responsible for pesticide regulation.

**NON-AGRICULTURAL USE REQUIREMENTS**

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

Professional applications to golf courses and industrial (office) parks are not within the scope of the Worker Protection Standard.

Do not enter treated areas until sprays have dried.

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

Pentathlon LF contains a Group M3 fungicide. Fungal isolates with acquired resistance to Group M3 may eventually dominate the fungal population if Group M3 fungicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of these species by Pentathlon LF or other Group M3 fungicides.

SePRO Corporation will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by SePRO Corporation. User assumes all risks associated with such non-recommended use.

Pentathlon LF, containing mancozeb, is recommended for use as a spray for the control of many important plant diseases.

### **APPLICATION INSTRUCTIONS**

**AS A SPRAY** (Ground or Aerial Equipment) - Apply Pentathlon LF at the rate shown; use sufficient water to provide thorough coverage, use 20 to 100 gallons per acre for ground equipment and no less than 2 gallons per acre for aircraft. Add Pentathlon LF slowly to water in the spray tank with agitation, or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Continuous agitation is required to keep the product in suspension. A spreader-sticker spray adjuvant may be used with this product if needed; contact your local product distributor or SePRO representative for specific recommendations.

### **SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Do not apply at wind speeds greater than 15 mph. If applying at wind speeds less than 3 mph, the applicator must determine if:

- (a) conditions of temperature inversion exist, or
- (b) stable atmospheric conditions exist at or below nozzle height.

Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Applicators must follow all state and local pesticide drift requirements regarding application of mancozeb. Where states have more stringent regulations, they must be observed.

#### **Aerial Application** (not permitted on sod farms and golf courses)

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

1. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
2. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
3. When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

#### **Ground Boom Application:**

1. Do not apply with a nozzle height greater than 4 feet above the crop canopy.

## **RESTRICTIONS**

### **Foliar Applications**

#### **Where EBDC Products Used Allow the Same Maximum Poundage of Active Ingredient per Acre per Season**

If more than one product containing an EBDC active ingredient (maneb, mancozeb or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed any one of the specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

#### **Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient per Acre per Season**

If more than one product containing an EBDC active ingredient is used on a crop during the same growing season and the EBDC products used allow different maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

### **CHEMIGATION (Not permitted on golf courses)**

#### **General Chemigation Information**

1. Apply Pentathlon LF Fungicide only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation systems. Do not apply Pentathlon LF through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.
4. 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.
5. 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.

#### **Specific Instructions for Public Water Systems:**

1. 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.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the 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.

3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The 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.
5. The system 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.
6. 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.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Good agitation is required in the injection tank.
9. In moving systems, apply specified dosage of Pentathlon LF as a continuous injection. In non-moving systems inject Pentathlon LF for 15 to 30 minutes at end of cycle. Use the least amount of water possible consistent with uniform coverage.
10. Mix the amount of Pentathlon LF needed for acreage to be treated into the quantity of water determined during prior calibration. For moving systems inject into the system continuously for one complete revolution of the field. For non-moving systems inject into system for the time established during calibration.
11. Stop injection equipment after treatment is completed and continue to operate irrigation equipment until all Pentathlon LF is flushed from system.

#### **Specific Instructions for Sprinkler Irrigation Systems:**

1. 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 backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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.

6. 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.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Good agitation is required in the injection tank.
9. In moving systems, apply specified dosage of Pentathlon LF as a continuous injection. In non-moving systems inject Pentathlon LF for 15 to 30 minutes at end of cycle. Use the least amount of water possible consistent with uniform coverage.
10. Mix the amount of Pentathlon LF needed for acreage to be treated into the quantity of water determined during prior calibration. For moving systems inject into the system continuously for one complete revolution of the field. For non-moving systems inject into system for the time established during calibration.
11. Stop injection equipment after treatment is completed and continue to operate irrigation equipment until all Pentathlon LF is flushed from system.

### **FLOWERS, FOLIAGE PLANTS, AND ORNAMENTALS**

**NOT INTENDED FOR USE ON FRUIT TREES BY HOMEOWNERS.  
TREATED PLANTS MUST NOT BE USED FOR FOOD OR FEED PURPOSES.**

Plant sensitivities to Pentathlon LF have been found to be acceptable in specific genera and species listed on this label, however, phototoxicity may occur. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test each one for sensitivity to Pentathlon LF. Neither the manufacturer or seller has determined whether or not Pentathlon LF can be safely used on ornamental or nursery plants not listed on this label. The user should determine if Pentathlon LF can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e. bedding plants, foliage, etc., and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use. Use Pentathlon LF in commercial greenhouses and nurseries for control of fungal diseases of flowers, foliage and ornamentals.

**A maximum of twenty (20) applications of Pentathlon LF can be made per year to flowers, foliage plants, and ornamentals.**

**Aerial Application:** For aerial applications made to field-planted ornamentals, apply 0.8 to 1.6 quarts per acre; a minimum rate of 5 gals of spray per acre should be used during aerial applications.

**Application of Dilute Sprays:** Apply as thorough coverage spray using 0.8 quarts to 1.6 quarts (0.8 to 1.6 lbs active ingredient) per 100 gals of water or per acre (see Table 1 below). Begin application at first sign of disease and repeat at 7 to 10 day intervals or as needed; use shorter interval during periods of frequent rains or when severe disease conditions persist. Pentathlon LF may be used alone or in combination with other fungicides as a maintenance spray. Use higher rate and shorter intervals during periods of excessive wetness and rapid plant growth.



Label Use Rate quarts per acre or quarts per 100 gals.	Fluid ounces (fl. oz.) of Pentathlon LF required to make the following spray volume:			
	10 gal	5 gal	2 gal	1 gal
0.8	2.6	1.3	0.5	0.3
1.0	3.2	1.6	0.6	0.3
1.6	5.1	2.6	1.0	0.5

SePRO Pentathlon LF is recommended for use on certain flower, foliage and ornamental plants listed in Table 2 below for control of the following diseases and pathogens.

PLANT	PATHOGEN CONTROLLED
<i>Abutilon</i>	Alternaria, Cercospora, Cladosporium <sup>†††</sup> , Colletotrichum, Puccinia
African violet	Alternaria, Botrytis
<i>Ageratum</i>	Alternaria, Puccinia, Rhizoctonia, Sclerotium
<i>Aglaonema</i>	Alternaria
Almond, ornamental	Botrytis, Cladosporium <sup>†††</sup> , Coryneum, Gloeosporium, Monilinia
<i>Alyssum</i>	Microsphaera alni
<i>Andromeda</i>	Exobasidium, Rhytisma, Venturia
<i>Anthurium</i>	Colletotrichum, Gloeosporium
Apple, ornamental	Alternaria, Cephalosporium, Colletotrichum, Coryneum, Elsinoe, Fusarium, Gloeosporium, Gymnosporangium, Helminthosporium, Leptosphaeria, Monilinia, Monochaetia, Mycosphaerella, Pestalotia, Venturia
Arborvitae	Alternaria, Botrytis, Cercospora, Coryneum, Lophodermium, Mycosphaerella, Pestalotia
Ash	Cercospora, Cylindrosporium, Gloeosporium, Puccinia, Rhizoctonia, Sphaeropsis
<i>Aster</i>	Alternaria, Ascochyta, Botrytis, Colletotrichum, Fusarium, Phomopsis, Phyllosticta, Puccinia, Ramularia, Rhizoctonia, Septoria, Uromyces
<i>Aucuba japonica</i>	Alternaria, Cercospora, Gloeosporium, Phomopsis, Phyllosticta
<i>Azalea</i>	Alternaria, Botrytis, Cladosporium <sup>†††</sup> , Colletotrichum, Cylindrocladium, Ovulinia
Baby's Breath	Botrytis, Rhizoctonia
Basswood <sup>†††</sup>	Cercospora, Phyllosticta
<i>Begonia</i>	Botrytis, Cercospora, Gloeosporium, Rhizoctonia
Birch	Cylindrosporium, Gloeosporium, Glomerella, Melampsorium, Taphrina
<i>Bougainvillea</i>	Colletotrichum
Boxwood	Fusarium, Volutella
Buckeye	Cercospora, Glomerella, Guignardia, Monchaetia, Phyllosticta, Septoria, Taphrina

Buffaloberry	Cylindrosporium, Puccinia, Rhizoctonia, Septoria
Catalpa <sup>ttt</sup>	Alternaria, Cercospora, Gloeosporium, Phomopsis, Rhizoctonia
Camellia	Botrytis, Cercospora, Elsinoe, Exobasidium, Glomerella, Pestalotia, Phomopsis, Phyllosticta
Carnation	Alternaria, Botrytis, Cladosporium <sup>ttt</sup> , Colletotrichum, Fusarium, Helminthosporium, Septoria, Stemphylium, Uromyces
Cedar	Gymnosporangium, Lophodermium
Cherry, ornamental	Alternaria, Cercospora, Cladosporium <sup>ttt</sup> , Coccoomyces <sup>ttt</sup> , Coryneum, Fusicladium, Monilinia, Phomopsis, Phyllosticta, Taphrina
Chinese evergreen	Colletotrichum, Gloeosporium
Christmas cactus	Alternaria, Cercospora, Colletotrichum, Fusarium, Phomopsis
Chrysanthemum	Alternaria, Ascochyta, Bipolaris, Botrytis, Cercospora, Cylindrosporium, Helminthosporium, Phyllosticta, Septoria, Stemphylium
Cockscomb ( <i>Celosia</i> )	Alternaria, Cercospora
Coleus	Alternaria, Botrytis, Phyllosticta
Columbine	Ascochyta, Botrytis, Cercospora, Puccinia, Rhizoctonia, Septoria
Cordyline	Cercospora
Cotoneaster	Cercospora, Phyllosticta, Venturia
Crabapple, ornamental	Gymnosporangium, Marssonina, Phyllosticta, Septoria, Venturia
Crape myrtle <sup>ttt</sup>	Cercospora, Phomopsis, Phyllosticta
Croton	Gloeosporium
Cuphea (Mexican heather)	Gloeosporium, Rhizoctonia
Cyclamen	Botrytis, Cladosporium <sup>ttt</sup> , Fusarium, Glomerella, Phyllosticta, Ramularia
Cypress	Coryneum, Fusarium, Gymnosporangium, Lophodermium, Monchaetia, Pestalotia, Phomopsis
Dahlia	Alternaria, Botrytis, Fusarium, Rhizoctonia
Daisy <sup>ttt</sup>	Botrytis, Cercospora, Whetzelia
Daisy, Shasta	Cylindrosporium, Fusarium, Septoria
Daisy, Transvaal	Alternaria, Botrytis, Gloeosporium
Daylily <sup>ttt</sup>	Alternaria, Botrytis, Cercospora, Colletotrichum, Phomopsis, Phyllosticta, Puccinia
Delphinium	Ascochyta, Botrytis, Cercospora, Diaporthe, Fusarium, Phyllosticta, Puccinia, Ramularia, Septoria, Volutella
Dieffenbachia	Cephalosporium, Colletotrichum, Gloeosporium, Glomerella, Leptosphaeria
Dogwood	Ascochyta, Botrytis, Cercospora, Colletotrichum, Elsinoe, Phyllosticta, Septoria
Dracaena	Alternaria, Cercospora, Colletotrichum, Fusarium, Phyllosticta
Dusty Miller	Fusarium, Puccinia
Elm	Botryosphaeria, Cephalosporium, Cercospora, Coryneum, Cylindrosporium, Fusarium, Gloeosporium, Monochaetia, Mycosphaerella, Phomopsis, Phyllosticta, Rhizoctonia, Sphaeropsis, Taphrina

<i>Euonymus</i>	Cercospora, Colletotrichum, Gloeosporium, Marssonina, Ramularia, Septoria, Whetzelinia
<i>Fatsia</i>	Alternaria, Cercospora, Colletotrichum, Phyllosticta
Fern	Botrytis, Cercospora, Curvularia, Cylindrosporium, Glomerella, Phyllosticta, Taphrina
<i>Ficus</i>	Alternaria, Ascochyta, Cephalosporium, Cercospora, Cladosporium <sup>†††</sup> , Colletotrichum, Fusarium, Gloeosporium, Glomerella, Mycosphaerella, Phomopsis, Stemphylium
Fir ( <i>Abies</i> )	Cephalosporium, Lophodermium, Melampsora, Phomopsis, Sphaeropsis
Fir, Douglas <sup>†††</sup>	Phaeocryptopus
Fir, Frasier	Phaeocryptopus
Firethorn	Fusarium, Fusicladium, Rhizoctonia
<i>Fittonia</i>	Rhizoctonia
Four-o'clock <sup>†††</sup>	Cercospora, Rhizoctonia
<i>Fuchsia</i>	Botrytis, Phomopsis, Septoria
Garden balsam, (Lady's Slipper)	Alternaria, Botrytis, Cercospora
<i>Gardenia</i> <sup>†††</sup>	Alternaria, Botrytis, Diaporthe, Mycosphaerella, Pestalotia, Phomopsis, Phyllosticta, Rhizoctonia
<i>Geranium</i>	Alternaria, Ascochyta, Bipolaris, Botrytis, Cercospora, Cylindrosporium, Helminthosporium, Puccinia, Ramularia, Rhizoctonia, Septoria, Uromyces, Venturia
<i>Gladiolus</i> <sup>†</sup>	Alternaria, Botrytis, Cladosporium <sup>†††</sup> , Curvularia, Rhizoctonia, Septoria, Stemphylium
<i>Gloxinia</i>	Botrytis, Colletotrichum
Gold Dust Tree	Gloeosporium, Glomerella, Pestalotia, Phyllosticta
<i>Gomphrena</i>	Cercospora
<i>Gypsophila</i>	Botrytis, Rhizoctonia
Hawthorn	Cercospora, Cylindrosporium, Gloeosporium, Gymnosporangium, Monilinia, Mycosphaerella, Phyllosticta, Septoria, Venturia
Hemlock, Eastern <sup>†††</sup> ( <i>Tsuga</i> )	Botrytis, Cylindrosporium, Melampsora, Rhizoctonia
<i>Hibiscus</i>	Alternaria, Cercospora, Colletotrichum, Fusarium, Phyllosticta
Hickory	Cercospora, Cladosporium <sup>†††</sup> , Elsinoe, Fusarium, Gnomonia, Mycosphaerella, Pestalotia, Phyllosticta, Septoria
Holly	Phyllosticta
Hollyhock	Alternaria, Ascochyta, Cercospora, Colletotrichum, Puccinia, Septoria
Honeysuckle	Alternaria <sup>†††</sup> , Cercospora <sup>†††</sup> , Gloeosporium <sup>†††</sup> , Herpobasidium, Phyllosticta <sup>†††</sup>
Horse Chestnut	see Buckeye
<i>Hydrangea</i>	Ascochyta, Botrytis, Cercospora, Colletotrichum, Phyllosticta, Rhizoctonia, Septoria
<i>Impatiens</i>	Cercospora, Phyllosticta, Rhizoctonia, Septoria
Indian Hawthorn	Entomosporium
<i>Iris</i>	Ascochyta, Botrytis, Cladosporium <sup>†††</sup> , Fusarium, Kabatiella, Phyllosticta, Puccinia, Rhizoctonia

Ivy	Cladosporium <sup>†††</sup> , Colletotrichum, Glomerella, Phyllosticta, Ramularia, Rhizoctonia, Sphaeropsis
Jade plant	Gloeosporium, Phomopsis
Juniper	Cercospora, Coryneum, Gymnosporangium, Lophodermium, Pestalotia, Phomopsis, Stigmia
Kalanchoe	Cercospora, Stemphylium
Larkspur	see Delphinium
Laurel, Cherry	Alternaria, Cercospora, Coccoomyces, Monilinia, Phyllosticta, Septoria
Laurel, Mountain	Cercospora, Mycosphaerella, Pestalotia, Phomopsis, Rhytisma, Septoria
Lavender, cotton	Septoria
Lilac <sup>†††</sup>	Botrytis, Cercospora, Cladosporium <sup>†††</sup> , Cyndrocladium, Gloeosporium
Lily	Botrytis, Cercospora, Cladosporium <sup>†††</sup> , Colletotrichum, Fusarium, Puccinia, Ramularia, Rhizoctonia
Liriope	Alternaria, Cercospora, Colletotrichum, Leptothyrium <sup>†††</sup>
Lobelia	Botrytis, Cercospora, Puccinia, Rhizoctonia, Septoria
Loquat	Colletotrichum, Fusicladium, Pestalotia, Phyllosticta, Septoria
Magnolia	Alternaria, Cercospora, Cladosporium <sup>†††</sup> , Colletotrichum, Glomerella, Rhizoctonia
Mahonia	Cercospora, Cyndrocladium, Gloeosporium, Leptosphaeria, Phomopsis, Phyllosticta, Puccinia
Maple	Alternaria, Cercospora, Ciborinia, Fusarium, Marssonina, Monochaetia, Phomopsis, Phyllosticta, Rhizoctonia, Rhytisma, Septoria, Sphaeropsis, Taphrina, Venturia
Mountain ash	Gymnosporangium
Myrtle	Cercospora, Glomerella, Pestalotia
Narcissus	Botrytis, Sclerotinia <sup>†††</sup>
Nasturtium	Botrytis, Cercospora, Puccinia
Nannyberry	Botrytis, Cercospora, Cladosporium <sup>†††</sup> , Helminthosporium, Monochaetia, Phomopsis, Phyllosticta, Ramularia
Nephtytis	Cephalosporium
Nicotiana	Alternaria
Nierembergia	Botrytis
Oak	Cephalosporium, Cercospora, Cladosporium <sup>†††</sup> , Cronartium, Elsinoe, Fusarium, Gloeosporium, Gnomonia, Marssonina, Phyllosticta, Septoria, Taphrina, Venturia
Orchid	Cercospora, Fusicladium, Mycosphaerella, Phyllosticta, Puccinia, Septoria
Osmanthus	Alternaria, Cercospora, Colletotrichum, Phyllosticta
Palm, Areca	Alternaria, Cercospora, Colletotrichum, Phomopsis, Phyllosticta, Septoria
Palms, Arenga <sup>†††</sup>	Cercospora, Colletotrichum, Cyndrocladium, Pestalotia, Phoma, Stigmia
Palm, Cabbage <sup>†††</sup>	Fusarium, Gloeosporium, Pestalotia, Stigmia
Palm, Coconut <sup>†††</sup>	Pestalotia
Palm, Date <sup>†††</sup>	Alternaria, Fusarium, Helminthosporium, Pestalotia

Palm, King	Alternaria, Fusarium, Helminthosporium, Pestalotia, Phomopsis
Palm, Phoenix <sup>†††</sup>	Alternaria, Cercospora, Fusarium, Gloeosporium, Pestalotia, Phomopsis, Stigmia
Palm, Queen <sup>†††</sup>	Glomerella, Septoria
Palm, Royal <sup>†††</sup>	Alternaria, Cercospora, Colletotrichum, Helminthosporium
Palm, Washington	Cercospora, Colletotrichum, Cyndrocladium, Pestalotia, Phoma <sup>†††</sup> , Stigmia
Pansy	Alternaria, Botrytis, Cercospora, Colletotrichum, Peronospora, Phyllosticta, Ramularia, Rhizoctonia
Peach, ornamental	Cercospora, Cladosporium <sup>†††</sup> , Coryneum, Fusarium, Glomerella, Monilinia, Mycosphaerella, Phomopsis, Phyllosticta, Taphrina
Pear, ornamental	Alternaria, Botrytis, Cercospora, Cladosporium <sup>†††</sup> , Coryneum, Elsinoe, Fusarium, Glomerella, Gymnosporangium, Helminthosporium, Monilinia, Mycosphaerella, Phomopsis, Phyllosticta, Venturia
Peony	Alternaria, Botrytis, Cercospora, Cladosporium <sup>†††</sup> , Gloeosporium, Phyllosticta, Septoria
Peperomia	Colletotrichum, Gloeosporium, Rhizoctonia
Periwinkle	Alternaria, Botrytis, Cladosporium <sup>†††</sup> , Colletotrichum, Phomopsis, Phyllosticta, Puccinia, Rhizoctonia, Septoria
Petunia	Cercospora, Puccinia, Rhizoctonia, Stemphylium
Philodendron	Colletotrichum, Gloeosporium
Phlox	Ascochyta, Botrytis, Cercospora, Colletotrichum, Phyllosticta, Puccinia, Ramularia, Septoria, Stemphylium, Volutella
Photinia	Cercospora, Gloeosporium, Gymnosporangium, Lophodermium, Pestalotia, Phyllosticta, Septoria
Pieris	Alternaria, Pestalotia, Phyllosticta, Rhytisma
Pilea	Alternaria, Botrytis, Cercospora, Colletotrichum, Helminthosporium, Phyllosticta
Pine, Norfolk Island	Botrytis, Colletotrichum, Cronartium, Cyndrocladium, Fusarium, Lophodermium, Pestalotia, Rhizoctonia, Septoria, Sirococcus <sup>†††</sup>
Pine	Alternaria, Botrytis, Cronartium, Fusarium, Lophodermium, Monochaetia, Rhizoctonia, Septoria, Sirococcus <sup>†††</sup>
Pittosporum	Alternaria, Cercospora, Gnomonia, Mycosphaerella, Phyllosticta, Rhizoctonia, Septoria
Plane tree	Cercospora, Gnomonia, Phyllosticta, Septoria
Plum, ornamental	Botrytis, Cercospora, Cladosporium <sup>†††</sup> , Coccoomyces, Coryneum, Monilinia, Phyllosticta, Taphrina
Poinsettia <sup>††</sup>	Botrytis, Cercospora, Fusarium, Uromyces
Poplar	Cercospora, Ciborinia, Colletotrichum, Cyndrocladium, Fusarium, Marssonina, Melampsora, Mycosphaerella, Phyllosticta, Septoria, Stigmia, Taphrina, Venturia
Portulaca	Rhizoctonia
Pothos	Rhizoctonia
Prayer plant	Alternaria, Drechslera, Glomerella, Puccinia
Primrose	Alternaria, Botrytis, Colletotrichum, Mycosphaerella, Puccinia, Ramularia, Uromyces
Privet	Cercospora, Glomerella, Phomopsis, Phyllosticta, Ramularia
Protea	Botrytis

<i>Pyracantha</i>	Botrytis, Cercospora, Diplodia, Phomopsis, Phyllosticta, Sphaeropsis
Quince, flowering	Cercospora <sup>†††</sup> , Fabraea, Gymnosporangium <sup>†††</sup> , Septobasidium <sup>†††</sup>
Red cedar, western <sup>†††</sup> ( <i>Thuja</i> )	Keithia or Didymascella
Red tip	See Photinia
Redwood, Sequoia	Botrytis, Cercospora, Mycosphaerella, Pestalotia, Phomopsis
<i>Rhododendron</i>	Alternaria, Cercospora, Coryneum, Gloeosporium, Glomerella, Guignardia, Lophodermium, Mycosphaerella, Pestalotia, Phomopsis, Rhizoctonia, Septoria, Venturia
Rose	Alternaria, Bipolaris, Botryosphaeria, Botrytis, Cercospora, Cladosporium <sup>†††</sup> , Cythrodium, Diplocarpon, Elsinoe, Gloeosporium, Helminthosporium, Leptosphaeria, Monochaetia, Mycosphaerella, Peronospora, Phyllosticta, Septoria
Rosemary	Rhizoctonia
Russian olive <sup>†††</sup>	Cercospora, Colletotrichum
Sage	Cercospora, Peronospora, Puccinia, Ramularia, Rhizoctonia
<i>Salvia</i> <sup>†††</sup>	Cercospora, Puccinia
<i>Santolina</i>	Botrytis
<i>Senecio</i>	Cercospora, Gloeosporium, Phyllosticta, Puccinia, Ramularia, Septoria
<i>Schefflera</i>	Alternaria
Snake plant	Fusarium, Gloeosporium
Snapdragon	Alternaria, Bipolaris, Botrytis, Cercospora, Colletotrichum, Drechslera, Fusarium, Helminthosporium, Peronospora, Phyllosticta, Puccinia, Rhizoctonia
<i>Spathiphyllum</i>	Alternaria
Spindle Tree	see Euonymus
Spirea <sup>†††</sup>	Cylindrosporium
Spruce	Ascochyta, Botrytis, Cladosporium <sup>†††</sup> , Lophodermium, Rhizoctonia
Spurge	Cercospora, Melampsora, Puccinia
Statice	Alternaria, Ascochyta, Botrytis, Cercospora, Colletotrichum, Rhizoctonia, Uromyces
Strawflower	Fusarium
Sumac <sup>†††</sup>	Cercospora, Cladosporium <sup>†††</sup> , Fusarium, Phyllosticta, Septoria, Taphrina
Sunflower, ornamental <sup>†††</sup>	Alternaria, Puccinia
<i>Syngonium</i>	Cephalosporium, Erwinia <sup>†††</sup> , Fusarium
Tulip	Botrytis
Venus flytrap	Colletotrichum
<i>Verbena</i>	Alternaria, Ascochyta, Botrytis, Cercospora, Phyllosticta, Puccinia, Rhizoctonia, Septoria, Stemphylium
<i>Viburnum</i>	Botrytis, Cercospora, Cladosporium <sup>†††</sup> , Helminthosporium, Monochaetia, Phomopsis, Ramularia
Walnut	Cercospora, Cladosporium <sup>†††</sup> , Cythrodium, Cylindrosporium, Gnomonia

Willow	Ascochyta, Cercospora, Ciborinia, Cylandrosporium, Fusicladium, Gloeosporium, Marssonina, Melampsora, Phomopsis, Phyllosticta, Ramularia, Rhytisma, Septoria, Taphrina, Venturia
Wisteria <sup>†††</sup>	Alternaria, Cercospora, Colletotrichum, Gloeosporium, Pestalotia
Yucca	Cercospora, Cylandrosporium, Gloeosporium, Puccinia
Zebra plant	Alternaria, Cercospora, Colletotrichum
Zinnia	Alternaria, Botrytis, Cercospora, Rhizoctonia

<sup>†</sup>Do not exceed 0.6 quarts per 100 gallons on flower spikes.

<sup>††</sup>Do not exceed 1.2 quarts per 100 gallons.

<sup>†††</sup>Except in California.

This product is not recommended for the treatment of marigolds due to highly variable plant responses.

### **TURFGRASSES: Sodfarms, Turf Use**

For applications to turfgrasses on sod farms, golf courses, industrial and commercial lawns and other similar non-residential areas. Applications must be done by a professional applicator. Not for homeowner use.

### **APPLICATION RESTRICTIONS**

#### **For ALL turfgrass uses:**

- Do not apply more than 12.8 fl. oz. per 1000 ft<sup>2</sup> or 4.35 gallons of product per acre (17.4 lbs a.i./acre) per application.
- Apply on a minimum 10 day schedule.

#### **Sod farms:**

- Harvesting of treated turf is prohibited until 5 days following application.
- Do not make more than 4 applications per year.
- Aerial application is prohibited on all sod farm turfgrasses.

#### **Golf Courses:**

- For cool season turfgrasses:
  - Greens, tees, and aprons → Do not make more than 5 applications/year.
  - Fairways → Do not make more than 4 applications/year.
- For warm season turfgrasses:
  - Greens, tees, and aprons → Do not make more than 4 applications/year.
  - Fairways → Do not make more than 3 applications/year.
- Aerial application is prohibited on all golf course turfgrasses

#### **All other turfgrasses (including industrial and commercial lawns and other similar non-residential areas):**

- Do not make more than 4 applications per year.

CROP	DISEASE/ PEST	APPLICATION		
		RATE	TIMING INTERVAL	COMMENTS
<p><b>Sod farms</b> (WPS use): see <i>Agricultural Use Requirements Box</i></p> <p><b>Turfgrasses</b> (Non-WPS uses): see <i>Non-Agricultural Use Requirements Box</i></p> <p>Examples include: golf courses and professional applications to industrial (office park) and municipal lawns.</p>	Algae	10-12.8 fl. oz./ 1000 ft <sup>2</sup>	Start treatment when algae begins to appear. Repeat at 10-day intervals as long as condition persists.	Do not use on grasses grown for seed.  Do not use on grasses intended for grazing, such as range or pasture grasses.
	Copper Spot Fusarium Blight ( <i>F. roseum</i> ) Red Thread Slime Molds	7-10 fl. oz./ 1000 ft <sup>2</sup>	Begin when grass greens up in spring. Repeat at 10 to 14-day intervals as long as condition persists.	Do not graze treated areas or feed clippings to livestock.
		10-12.8 fl. oz./ 1000 ft <sup>2</sup>	Use during favorable disease conditions. Repeat at 10-day intervals as long as condition persists.	
	Gray Leaf Spot <sup>†††</sup> ( <i>Pyricularia grisea</i> )	9-12.8 fl. oz./ 1000 ft <sup>2</sup>	Begin at first sign of disease. Apply at 10-day intervals during favorable disease conditions.	Applications prohibited on all types of residential lawns and athletic fields.
	Dollar Spot ( <i>Sclerotinia</i> )	10-12.8 fl. oz./ 1000 ft <sup>2</sup>	Begin when grass greens up in spring. Repeat at 10 to 14-day intervals as long as condition persists.	
		12.8 fl. oz./ 1000 ft <sup>2</sup>	Use during favorable disease conditions. Repeat at 10-day intervals as long as condition persists.	
	Pink (Fusarium) Snow Mold	10-12.8 fl. oz./ 1000 ft <sup>2</sup>	Use during winter. Apply before first snowfall. Repeat at 14 to 42-day intervals as long as condition persists.	
	Leaf Spot ( <i>Helminthosporium</i> spp.) Rhizoctonia Brown Patch	5-7 fl. oz./ 1000 ft <sup>2</sup>	Begin when disease appears.	
10-12.8 fl. oz./ 1000 ft <sup>2</sup>		Use during favorable disease conditions. Repeat at 10-day intervals as long as condition persists.		

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Pythium Blight	12.8 fl. oz./ 1000 ft <sup>2</sup>	Begin at first sign of disease. Repeat at 10-day intervals if conditions are favorable for disease development.
Leaf Rust Stem Rust Stripe Rust	5-7 fl. oz./ 1000 ft <sup>2</sup>	Begin when disease first appears. Repeat at 10-day intervals as long as disease persists.

\*\*\*Except in California

### ATTENTION:

This product contains mancozeb and ETU, chemicals known to the State of California to cause cancer in laboratory animals. ETU is also known to the State of California to cause birth defects or other reproductive harm in laboratory animals.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage: Important** Keep in a cool place but not below 32°F. Temperature extremes will affect the quality of Pentathlon LF. Store product in original container only, away from other pesticides, fertilizer, food or feed.

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

**Nonrefillable Container Disposal (rigid, 5 gallons or less):** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 the procedure two more times. Then offer for recycling (if available) or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container Disposal (rigid, larger than 5 gallons):** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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, treatment area, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling (if available) or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. **SEPRO CORPORATION**

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**MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

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### **INHERENT RISKS OF USE**

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It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation as the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

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### **LIMITATION OF REMEDIES**

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To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. To the extent consistent with applicable law, in no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer* above and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or *Limitations of Remedies* in any manner.

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