67690-39

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Laurent Mezin Manager, Regulatory Affairs SePRO Corporation 11550 North Meridian Street, Suite 600 Carmel, IN 46032

SEP 2 4 2012

Product NamePentathlon DF Fungicide Dispersible GranulesEPA Reg No67690-39SubjectYour amendment dated June 22 2012OPP Decision Number462710

Dear Dr Mezin

UNITED STATES

SAVURONMENTAL PROTES

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes are made

- 1 On pages 1 and 17 move the headers PRECAUTIONARY STATEMENTS / HAZARDS TO HUMANS AND DOMESTIC ANIMALS" to immediately below the following **FIRST AID** box so that the header is not separated from the precautionary paragraph on page 2
- 2 On page 2, move all of the text beginning with "Refer to the label booklet" down to the 'Net Contents" to page 1

One copy of the label stamped "Accepted with comments" is enclosed for your records Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment

If you have any questions, please contact Robert Westin by phone at (703) 305 5721 or via email at westin robert@epa gov

Sincerely,

Mary I Walls

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

Enclosure

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[Front of Label booklet for Nonrefillable, Non-Rigid (Flexible) containers of any size]



GROUP M3 HERBICIDE

Pentathlon* DF

Fungicide Dispersible Granules

A broad spectrum fungicide for use as a spray for the control of many important plant diseases on flowers, foliage plants, ornamentals and turfgrasses

Active Ingredient

Mancozeba coordination product of zinc ion and manganese
ethylenebisdithiocarbamate in which the ingredients are75 0%
75 pound of mancozeb per pound 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 the label find someone to explain it to you in detail)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

ACCEPTED with COMMENTS In EPA Lotter Dated:

9/24/2012 Under the Federal Insecticide, Pungicide, and Rodenzicide Act, as amended, for the pesticide registered under EPA Rey. No. 67690-39

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	FIRSTAID
If swallowed	 Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person
If inhaled	 Move person to fresh air If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth, if possible Call a poison control center or doctor for further treatment advice
lf in eyes	 Hold eyes open and rinse slowly and gently with water for 15 - 20 minutes Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye Call a poison control center or doctor for treatment advice
lf on skin or clothing	 Take off contaminated clothing Rinse skin immediately with plenty of water for 15 - 20 minutes Call a poison control center or doctor for treatment advice
going for trea	duct container or label with you when calling a poison control center or doctor or atment. In case of emergency endangering health or the environment involving call INFOTRAC at 1-800-535-5053

CAUTION Harmful if absorbed through skin Causes moderate eye irritation Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals Avoid contact with skin, eyes, or clothing Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet Remove and wash contaminated clothing before reuse

Refer to the label booklet for additional precautionary information and directions for use including First Aid and Storage and Disposal

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

EPA Reg No 67690-39 FPL20120621	EPA Est No [SPC -]
Produced for SePRO Corporation 11550 N Meridian S	ير عtreet, Suite 600, Carmel, IN 46032, U S & ا
Fungicide * Trademark of SePRO Corporation	Net Contents [Refillable/nonrefillable container
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[Label booklet for Nonrefillable, Non-Rigid (Flexible) containers of any size]

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)

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 carbinate hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, 'o areas where surface water is present or to intertidal areas below the mean high water mark contaminate water when cleaning equipment or disposing of equipment washwater or finate

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 d rect¹y 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.

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

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 Do not enter treated areas or allow others to enter until sprays have dried

RESISTANCE MANAGEMENT RECOMMENDATIONS

Pentathlon DF 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 DF or other Group M3 fungicides.

Pentathlon DF, a dispersible granule containing mancozeb, is labeled for use as a spray for the control of many important plant diseases

Product Use Information

PENTATHLON DF Fungicide is a broad-spectrum fungicide labeled for use on outdoor and greenhouse grown crops turf and ornamentals. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventative spray program. The addition of an agricultural surfactant will enhance fungicide performance by providing a more uniform spray deposit, increased foliar redistribution, and enhanced fungicide retention during periods of wet weather. Contact your local product distributor or SePRO Corporation representative for specific surfactant recommendations.

Use Rate Determination

- Carefully read, understand, and follow label use rates and restrictions
- When two pesticides are tank mixed, the more restrictive label requirements must be followed

- Do not tank mix with any product which contains a prohibition on tank mixing
- Under low disease conditions, minimum label rates per application can be used while
 maximum label rates and the minimum interval may be used for severe or threatening
 disease conditions
- For proper application, determine the number of acres to be treated, the required label use rate and the volume to be applied per acre Prepare only the amount of spray solution required to treat the measured acreage Calibrate spray equipment prior to use
- When applied by hand sprayers, 1 pound PENTATHLON DF per 100 gallons per acre is equivalent to 1 level tablespoon per gallon spray solution

Mixing Procedures

Slowly pour into spray tank as it is being filled while agitation is maintained or thoroughly premix in a nurse tank for concentrate or aircraft sprayers Add other co-applied fungicides, insecticides, growth regulators, micronutrients after PENTATHLON DF has been placed into suspension

When preparing spray solutions for use in a hand sprayer, premix as a slurry in a small container, and then add to sprayer containing 1/3 to 1/2 the desired final water volume

Compatibility

PENTATHLON DF is compatible with most commonly used agricultural fungicides, insecticides and growth regulators When preparing tank mixes user should consult spray compatibility charts or State Cooperative Extension Service Specialists prior to actual use

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

Wind Speed Do not apply at wind speeds greater than 15 mph

Temperature Inversions If applying at wind speeds less than 3 mph, the applicator must determine if (1) conditions of temperature inversion exist, or (2) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions

Other State and Local Requirements Applicators must follow all state and local pestic de drift requirements regarding application of mancozeb. Where states have more stringer regulations, they must be observed

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)

- 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.

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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

Application

Ground

Thorough coverage foliar sprays generally result in optimum disease control To achieve satisfactory coverage use proper spray pressure volume of spray mixture per acre, nozzles (generally hollow cone), disc (generally D-5 to D-7) nozzle spacing and tractor speed Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration

Hand Sprayers

Thoroughly spray plant foliage until runoff

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Aerial

A uniform initial spray deposit over the crop canopy generally results in optimum disease control Each aircraft should be prechecked for droplet size uniformity of spray pattern, swath width, and spray volume During aerial application, human flaggers are prohibited

Nozzle selection Hollow cone brass nozzles with a D-series orifice disc and core (whiriplate) are recommended Nozzles should point straight down or slightly backward

Swath width For most field and vegetable crops, swaths just beyond the wingspan of 36 to 40 feet for light aircraft and up to 45 feet for heavier aircraft are suggested. Optimum swath for helicopters is usually 5 to 10 feet beyond normal boom length

Spray volume Aerial applications are to be made in a minimum of two (2) gallons of water per acre On vegetable and field crops, 2 to 3 gallons of spray per acre are generally optimum, orchards and vineyards can be handled with spray volumes of 5 gallons per acre Some tall or dense foliage crops requiring greater penetration to the lower leaf surface will require higher spray volumes **Do not use less than 5 gallons per acre in California**

Altitude For most crops, the spray boom should be positioned in 5 to 10 feet above the crop canopy

Flagging Mark swaths at the end of the field with permanent flags Measure swaths accurately with a chain or other device except when rows can be accurately counted

Restrictions

This product may not be used on turfgrass in residential settings and athletic fields

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 Use Directions

Sprinkler Irrigation

PENTATHLON DF must be applied on a regular protectant fungicide schedule, **not an irrigation schedule** If irrigation cycles are less frequent than specified PENTATHLON DF application intervals, ground or aerial applications must supplement chemigation applications to achieve adequate disease control

Chemigation Requirements

- Apply PENTATHLON DF only through sprinkler irrigation systems including center-pivot, lateral move, end tow side (wheel) roll traveler, solid set, or hand move irrigation systems Do not apply product through any other type of irrigation system
- Lack of fungicidal effectiveness or illegal pesticide residues in the crop can result from nonuniform distribution of treated water
- If you have questions about calibration, you should contact a State Extension Service specialist equipment manufacturers or other experts
- 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 system are in place
- 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 Chemigation Equipment Requirements

Before applying PENTATHLON DF through sprinkler irrigation equipment, the chemigation system must meet the following specifications

- 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 (RPZ), backflow preventer 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 must 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.
- Systems not connected to a public water supply must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located in the irrigation pipeline

to prevent water source contamination from back flow

- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump
- The pesticide injection pipeline must also contain a functional, normally closed solenoidoperated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motors stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected
- The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected/
- Systems must use a metering pump such as a positive displacement injection pump (e g diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Do not apply when wind speed favors drift beyond the area intended for treatment

Center-Pivot, Lateral Move, End Tow, and Traveler Irrigation Equipment (Use only with electric or oil hydraulic drive systems which provide a uniform water distribution)

- Determine the size of the area to be treated
- Determine the time required to apply no more than 1/4 inch water (6,750 gallons water per acre) over the area to be treated when the system and injection equipment are operated at normal pressures recommended by the equipment manufacturer Run system at 80% to 95% of manufacturer s rated capacity
- Using only water, determine the injection pump output when operated at normal line pressure
- Determine the amount of PENTATHLON DF required for the treatment area
- Add the required amount of PENTATHLON DF and sufficient water to meet the injection time requirements of the solution tank
- Maintain constant solution tank agitation during the injection period
- Stop injection equipment after treatment is completed. Continue to operate the system until PENTATHLON DF solution has cleared the sprinkler head.

Solid-Set, Side (Wheel) Roll, and Hand Move Irrigation Equipment

- Determine acreage covered by sprinkler
- Fill injector solution tank with water and adjust flow rate to use contents over a 10 to 30minute interval
- Determine the amount of PENTATHLON DF required for the treatment area
- Add the required amount of PENTATHLON DF into the same quantity of water used to calibrate the injection equipment
- Maintain constant solution tank agitation during the injection period
- Operate system at normal pressures recommended by the manufacturer of the injection equipment and used for the time interval established during calibration
- Inject PENTATHLON DF at the end of the irrigation cycle or as separate application to maximize foliar fungicide retention
- Stop injection equipment after treatment is completed. Continue to operate the system until PENTATHLON DF solution has cleared the last sprinkler head.

FLOWERS, FOLIAGE PLANTS, AND ORNAMENTALS

Restrictions

- Cut flowers and greenhouse grown ornamentals Limit to 20 applications per year
- Do not use for food or feed

Note Plant sensitivities to Pentathlon DF 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 DF. Neither the manufacturer or seller has determined whether or not Pentathlon DF can be safely used on ornamental or nursery plants not listed on this label. The user should determine if Pentathlon DF can be used safely prior to commercial use. In a small area apply the labeled 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 DF in commercial greenhouses and nurseries for control of fungal diseases of flowers, foliage and ornamentals

For outdoor (field nursery) or greenhouse use apply the equivalent of 1-2 lbs PENTATHLON DF per 100 gallons of dilute spray (1 5 lbs PENTATHLON DF per acre) The addition of Latron B-1956 to spray solutions will improve performance

Begin spraying when plants are well leafed out or at first sign of disease, in a full coverage spray at 7- to 10-day intervals throughout the season for disease control on the following ornamental plants

Сгор	Diseases Controlled	Remarks (Also Refer to Directions for Use – Restrictions)
African violet	Botrytis blight	
almond (ornamental)	leaf spot	
alyssum	leaf spot	
anthurium	anthracnose, spadix rot	
apple (ornamental)	Fabraea leaf spot rust scab	
arborvitae	Cercospora blight	
areca palm	leaf spot	
ageratum	Botrytis blight rust	
ash, mountain	Entomosporium leaf spot Guignardia leaf blotch	
ash, white	anthracnose Cylindrosporium leaf spot	
aster	Leaf spot	

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Crop	Diseases Controlled	Remarks (Also Refer to Directions for Use – Restrictions)
aster, perennial	Alternaria leaf spot	
aster, perennar	anthracnose	
azalea	Cylindrocladium rot	Apply in a full coverage spray, 2 to 3 times a
azaica	petal blight	week while flowers are opening Direct spray
	Phytopthora twig and	into flowers and thoroughly spray ground under
	bud blight	bushes
havaannullaa		
bougainvillea	Leaf spot	
begonia	Botrytis blight	
boxwood	Leaf spot	
buffaloberry	Cylindrosporium leaf spot	
camellias	petal blight	Refer to Azalea
carnation	rust	
	Septoria leaf spot	
cedar red	Cercospora blight	+
(juniper)	Phomopsis blight	
chrysanthemum	Ascochyta blight	Apply twice weekly during blooming period
omyoundicinam	Botrytis petal spot	Apply twice weekly during blochning period
	rust	
cockscomb	Alternaria leaf spot	
(celosia)	Alternaria lear spot	
conifers	Lophodermium	Pagin application in apring or early summer
	needle cast	Begin application in spring or early summer
(Christmas		before infection occurs Repeat after heavy rains
trees)	pine gall rust	and at two-week intervals as long as needed
	Scirrhia brown spot	
cordyline	Cercospora leaf spot	
crabapple	cedar-apple rust scab	
(ornamental)		
	Sphaeropsis leaf	
	spot	
cypress,	Cercospora blight	
Arizona	Monochaetia canker	
(Cupressus		
<u>spp)</u>		
dahlıa	Botrytis blight	
delphinium	Botrytis blight	
dieffenbachia	Leptosphaeria brown	
	spot	
dogwood	anthracnose	Apply when buds begin to open, when bracts
	Elsinoe leaf spot	have fallen, 4 weeks later and again in late
flowering		
•	Septoria leaf spot	summer after flower buds for next season have
-	Septoria leaf spot	summer after flower buds for next season have formed
flowering		
flowering dracaena	Fusarium leaf spot	· · · · · · · · · · · · · · · · · · ·
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Pentathlon* DF 67690-39

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Crop	Diseases Controlled	Remarks (Also Refer to Directions for Use – Restrictions)	
fern	Rhizoctonia blight	Restrictions)	
ficus	Cercospora leaf spot		
	Cylindrocladium leaf		
fig	spot		
firethorn (pyracantha)	Fusicladium scab		
fir, Douglas	Swiss needle cast		
fir, fraser	Swiss needle cast		
fuchsia	Botrytis blight rust		
geranium	rust		
gladiolus	Botrytis blossom blight Curvularia leaf spot	Make regular weekly applications starting before diseases appear and increase to 2 or 3 applications per week during periods of heavy disease and during rainy weather. On flower spikes, reduce spray concentration to 3/4 lb per 100 gallons.	
gloxinia	Botrytis blight		
gypsophila	Botrytis blight		
hawthorn	cedar-apple rust Fabraea leaf spot frogeye leaf spot hawthorn rust scab		
hickory	Gnomonia leaf spot		
holly	purple spot		
hollyhock	anthracnose Cercospora leaf spot Puccinia rust		
honeysuckle	Herpobasidium blight		
horsechestnut, buckeye	Alternaria leaf spot Guignardia leaf blotch		
hydrangea	Botrytis blight Cercospora leaf spot		
impatiens	Botrytis blight		
iris Didymellina leaf spot Mycosphaerella leaf spot Mystrosporium ink spot		(formerly Didymellina)	
juniper	Phomopsis blight		
larkspur	rust		
laurel, mountain		Refer to azalea.	
ligustrum	Cercospora leaf spot		

13/20

Crop	Diseases Controlled	Remarks (Also Refer to Directions for Use – Restrictions)		
lily	Botrytis blight			
magnolia	Gloeosporium leaf			
	spot			
maple	Alternaria leaf spot Phyllosticta leaf spot	Do not use sap for syrup production		
marigold	Botrytis blossom blight	Do not use on French dwarf double or Signet type marigold seedlings		
narcissus	Botrytis blight (fire) smoulder			
oak	Actinopelte leaf spot Taphrina leaf blister			
orchid	Botrytis blossom			
(Dendrobium)	blight			
oxalıs	rust			
pansy	anthracnose			
pears	Fabraea leaf spot			
(ornamental)	rust			
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peony	Botrytis blossom	Apply in early spring and early fall drenching soil		
	blight	around plants as well as the foliage Promptly		
	Phytophthora blight	destroy all infected plant parts		
peperomia	Cercospora leaf spot			
petunia	Botrytis blight			
philodendron	Dactylaria leaf spot			
	Phytophthora leaf			
	spot			
phlox	leaf spot			
photinia	Entomosporium leaf			
	spot			
pine Australia	Cyclaneusma needle cast			
pine, Scotch	Cyclaneusma needle			
-	cast			
	gall rust			
pittosporum	Alternaria leaf spot			
pleomele	Fusarium leaf spot			
poinsettia	Sphaceloma scab			
poplar	rust			
primrose	Botrytis blight			
protea	Botrytis blight			
quince	Fabraea leaf spot			
(ornamental)	rust			
	scab			
rhododendron	Cercospora leaf spot Discosia leaf spot petal blight	t Refer to azalea /		

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Сгор	Diseases Controlled	Remarks (Also Refer to Directions for Use – Restrictions)
rose	black spot	
1050	Cercospora leaf spot	
	rust	
rosemary	Rhizoctonia	
rosemary	aerial blight	
schefflera	Alternaria blight	
Scotts pine	needle cast	
skunkbush,	Cylindrosporium leaf	
sumac	spot	
snapdragon	rust	
spathiphyllum	Myrothecium leaf	
	spot	
statice	Cercosporium leaf	
	spot	
strawflower	rust	
syngonium	Cephalosporium leaf	
	spot	
thorn apple	rust	
tulip	Botrytis blight (fire)	
venus flytrap	anthracnose	
viburnum	downy mildew	
	Ramularia leaf spot	
walnut	anthracnose	Do not use nuts for food or feed
zinnia	Alternaria leaf blight	

TURFGRASSES Sodfarms, Turf Uses

For use on sod farms, golf courses industrial and commercial lawns and other similar nonresidential areas. Not for use on residential or athletic turf

Restrictions

Sod Farm Turf

- Harvesting of treated turf is prohibited until 5 days following application
- Limit to a maximum of 4 applications per year and a maximum rate of 23 2 lbs of product per acre (17 4 lbs ai/A) per application
- Minimum interval between applications is 10 days

Golf Courses

- For cool season grasses, greens, tees and aprons limit to a maximum of 5 applications per year at a maximum application rate of 23 2 lb of product per acre (17 4 lbs ai/A) per application
- For cool season grasses, fairways limit to a maximum of 4 applications per year at a maximum application rate of 23 2 lbs of product per acre (17 4 lbs ai/A) per application
- For warm season grasses greens tees and aprons limit to a maximum of 4 applications per year at a maximum application rate of 23 2 lbs of product per acre (17 4 lbs ai/A) per application

- For warm season grasses, fairways limit to a maximum of 3 applications per year at a maximum application rate of 23 2 lbs of product per acre (17 4 lbs ai/A) per application
- Minimum interval between applications is 10 days

All Other Turf

- Limit to a maximum of 4 applications per year and a maximum application rate of 23 2 lbs of product per acre (17 4 lbs ai/A) per application
- Minimum interval between applications is 10 days

Start application when grass greens-up in spring or when disease first appears and repeat at 10 to 14 day intervals or until disease threat is past. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 10-day spray schedule Apply in sufficient water to provide adequate coverage.

Turf Tolerance

Treated turfgrass should be maintained in a vigorous growing condition Turfgrass under stress will not respond to fungicide treatments as well as well-maintained turfgrass Turfgrass tolerance to this product has been found to be acceptable however, this product and tank mixtures with other products have not been tested on all varieties of every turfgrass species or under all possible growing conditions If user is unfamiliar with the performance of PENTATHLON DF or tank mixtures under user growing conditions a limited area of turfgrass should be treated prior to initiating large-scale applications The user should always exercise reasonable judgment and caution when using this product

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Сгор	Diseases Controlled	PENTATHLON DF Rate per Application (oz/1000 sq ft)	Remarks (Also Refer to Dırections for Use)	Restrictions
assorted	Helminthosporium	4		Do not graze
grasses	melting-out rust (leaf stem			treated areas
	stripe)			Do not use on
	copper spot	4 to 8		grasses intended
	Fusarium blight red thread			for grazing such as range or
	slime mold			pasture grasses
	algae	6		, .
	dollar spot	6 to 8		Do not feed
	Rhizoctonia brown patch	4	Apply on a 10-day spray schedule	clippings to livestock
	Pythium blight	8	Apply at 10-day intervals	Do not use on
	Fusarium snow mold	6 to 8	Apply at 2 to 6 week intervals during winter	grasses grown for seed
	gray leaf spot	8	Apply on a 14-day spray schedule when conditions are favorable for disease development	

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

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Pesticide Storage Important Never allow Pentathlon DF to become wet during storage This may lead to certain chemical changes which will reduce the effectiveness of Pentathlon DF as a fungicide and create vapors which may be flammable Keep container closed when not in use 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

Nonrefiliable Container Handling (non-rigid, any size) Do not reuse or refill this container Offer for recycling if available Completely empty bag into application equipment Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning if burned, stay out of smoke

TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid Otherwise to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer Inherent Risks of Use* and *Limitation of Remedies*

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 TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY

INHERENT RISKS OF USE

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 or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law the exclusive remedy 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 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

The terms of the Warranty Disclaimer, Inherent Risks of Use 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 this Limitation of Remedies in any manner

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[Back Label for Nonrefillable, Non-Rigid (Flexible) containers of any size]

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Pentathlon* DF

Fungicide Dispersible Granules

A broad spectrum fungicide 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 ma		
ethylenebisdithiocarbamate in which the ingredients	are	75 0%
Manganese++	15 0%	
Zinc++	1 9%	
Ethylenebisdithiocarbamate ion (C ₄ H ₆ N ₂ S ₄)	58 1%	
Other Ingredients		<u>25 0%</u>
TOTAL		100 0%
Contains 0 75 pound of mancozeb per pound of proc	luct	

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KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Pentathlon* DF 67690-39

Leve and a star	FIRSTAID					
lf	Call a poison control center or doctor immediately for treatment advice					
swallowed	 Have person sip a glass of water if able to swallow 					
	 Do not induce vomiting unless told to do so by the poison control center or doctor 					
	 Do not give anything by mouth to an unconscious person 					
If inhaled	Move person to fresh air					
	 If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth, if possible 					
	 Call a poison control center or doctor for further treatment advice 					
lf ın eyes	 Hold eyes open and rinse slowly and gently with water for 15 - 20 minutes Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye 					
	 Call a poison control center or doctor for treatment advice 					
If on skin	Take off contaminated clothing					
or clothing	 Rinse skin immediately with plenty of water for 15 - 20 minutes 					
	 Call a poison control center or doctor for treatment advice 					
going for trea	duct container or label with you when calling a poison control center or doctor, or atment In case of emergency endangering health or the environment involving call INFOTRAC at 1-800-535-5053					

CAUTION Harmful if absorbed through skin Causes moderate eye irritation Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals Avoid contact with skin, eyes, or clothing Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet Remove and wash contaminated clothing before reuse

STORAGE AND DISPOSAL

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

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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 Handling (non-rigid, any size) Do not reuse or refill this container Offer for recycling if available Completely empty bag into application equipment Then dispose of empty bag 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 *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* inside label booklet

EPA Reg No 67690-39 FPL20120621

EPA Est	No	
[SPC -]_		

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

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Fungicide

Net Contents _____ [Refillable/nonrefillable container___]

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