

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF **CHEMICAL SAFETY AND** POLLUTION PREVENTION

Gary Orr, PhD United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

JUN 1 8 2013

Subject:

Application for Pesticide Notification (PRN 98-10)

Submission date:

5/22/13

Product Name:

Phoenix Wingman

EPA Reg. No.:

70506-269

EPA Decision Number: 479535

Dear Dr. Orr:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10.

The Agency acknowledges the update to the Container Handling instructions as well as the addition of the alternate brand name, Phoenix WingMan DFX.

If you have questions concerning this letter, please contact me at 703-308-0034.

Sincerely,

Heather Garvie

Acting Product Manager (21)

Fungicide Branch

Registration Division (7504P)

Please read instructions on reverse befo	re completing form.		Form Approve	ed, OMB No. 2070-0	060, Approval expires 05-31-98
0 = 0.4	United Sta	tes	☐ Registr	ration	OPP Identifier Number
EPA En	rironmental Prote	ection Agenc	-		
	Washington, D0		- Linux	Notification	·
	Appin		esticide - Sectio	······································	
 Company/Product Number 70506-269 			N Product Manager Johnson	·	Proposed Classification
Company/Product (Name)		PM#	00/1100/1	····	None Restricted
Phoenix WingMan		21			
5. Name and Address of Applicant (In United Phosphorus, Inc. Freedom Business Center, Su King of Prussia, PA 19406	,	(b)(l), to: EPA F			ith FIFRA Section 3(c)(3) in composition and labeling
Check if this is a new ac	ldress				
		Sect	ion - II		
Amendment – Explain below. Resubmission in response to Act Notification - Explain below. Explanation: Use additional		rry. (For Secti	Me Too" Applic Other - Explain	below	gency letter dated :
Notification of change to Containe	r Handling language	per PR Notice	2007-4, addition of	an Alternate Bran	d Name per PR Notice 98-10.
152.46, 156.10, 156.140, 156.144 of Formula for this product. I un further understand that if the amount 156.146, and 156.156, this product 12 and 14 of FIFRA."	derstand that it is a ended label is not co	violation of 18 onsistent with to n of FIFRA and	3 U.S.C. Sec. 1001 the requirements of all may be subject to	to willfully make 40 CFR §§ 152.4	any false statement to EPA. 146, 156.10, 156.140, 156.144
		Secti	on - III		
Material This Product Will Be Pac Child Registant Registrant			Water Soluble Pag	kaging	Type of Container
Child-Resistant Packaging Yes*	Unit Packaging Yes		Yes Yes	Rayling	Metal
No.	⊠ No		No No		Plastic
	If "Yes"	No. per	If "Yes"	No. per	Glass
*Certification must	Unit Packaging wg	t. container	Package wgt.	container	Paper
be submitted					Other (Specify):
Location of Net Contents Informat Label	1	e(s) Retail Contai OS	ner	On Label	Label Directions g accompanying product
6. Manner in Which Label is Affixed	₽	ithograph aper glued tenciled	Other		((
		Secti	on - IV		
1. Contact Point (Complete items dir	ectly below for identific	ation of individual	to be contacted, if nece	essary, to process th	
Name Gary R. Orr, PhD		Title	y Affairs Manager	T	elephone No. (Include Area Code)
I certify that the statements I have ma acknowledge that any knowingly false applicable law.		attachments therent may be punish			6. Date Application Received (Stamped)
2 Signature	80_	3. Title Regulator	y Affairs Manager	,	
Signature / / Typed Name		5. Date	<u> </u>		
Gary P. Orr. PhD			May 22 2013		



United Phosphorus, Inc.
Gary R. Orr, PhD
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406
Phone: (919) 802-8809
email: gary orr@uniphos.com

Via US Postal Service

May 22, 2013

Hope Johnson (PM 21) Document Processing Desk (NOTIF) Office of Pesticide Programs (H7504P) U.S. Environmental Protection Agency 1200 Pennsylvania Ave., N.W. Washington, D.C., 20460

Re: Phoenix WingMan (EPA Reg. No. 70506-269)

Notification - Alternate Brand Name and Addition of Revised Container Handling

Language

Dear Ms. Johnson:

United Phosphorus, Inc. (UPI) is hereby submitting draft label copy for Phoenix WingMan bearing the alternate brand name of Phoenix WingMan DFX. This proposed label also incorporates standard container handling language previously submitted to the Agency as a Notification on April 12, 2013. That action was denied for lack of instructions for return or recycle/disposal of refillable containers (see EPA Decision No. 478188). Such instructions have been incorporated in this new version per guidance provided by Ms. Heather Garvie via telephone conversation.

Enclosed as required are EPA Form 8570-1 for Notification, and two copies of the proposed label, with one clearly marked so as to indicate the changes reflecting the use of the ABN Phoenix WingMan DFX and addition of standard container handling language incorporating return or recycle/disposal instructions for refillable containers.

Please contact me using the information provided in the letterhead should you have any questions concerning this submission.

Best regards.

Gafy R/Orr, PhD

Cc: Heather Garvie

Phoenix WingMan DFX

NOTIFICATION
JUN 18 2013

Fungicide Dispersible Granules

Active Ingredients	
A coordination product of zinc ion and manganese ethylene	bisdithiocarbamate in which the
ingredients are:	75.0%
Manganese	
Zinc	
Ethylenebisdithiocarbamate ion (C4H6N2S4)	58.1%
Inert Ingredients	
TOTAL	100.0%
Contains 0.75 nounds of Managazah per nound 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.)

	First Aid
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 a 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.
If in eyes	 Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.
If 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.
	Y NUMBER duct container or label with you when calling a poison control center or doctor, or going for or medical emergency contact the Rocky Mountain Poison Control Center at 1-866-673-

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.

Net	Contents:	P	ounds
	000		~~:·

EPA Reg. No. 70506-269

United Phosphorus, Inc. 630 Freedom Business Center. Suite 402 King of Prussia. PA 19406 800-438-6071 EPĄ Ęst. No.

Precautionary Statements Hazards to Humans and Domestic Animals

CAUTION. MAY IRRITATE EYES, NOSE, THROAT AND SKIN. MAY BE HARMFUL IF ABSORBED THROUGH SKIN, INHALED OR SWALLOWED. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. Keep away from fire or sparks.

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.

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber.
- Shoes plus socks.

Mixers and Loaders must wear:

- Coveralls overlong-sleeved shirt and long pants.
- Chemical-resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber.
- Shoes plus socks.
- Protective eyewear.
- Chemical-resistant apron when mixing or loading.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

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

Engineering Controls Statement

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

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in coccan neighboring areas. Do not apply directly to water, to areas where surface water is present or to intertidal coccan areas below the mean high water mark. Cover or incorporate spilled treated seed. Do not contaminate water by disposing of equipment washwaters.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through orifit. Conly 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 (72-hours for sod farms). 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
- Chemical-resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber.
- Shoes plus socks.

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.

Commercial seed treatments and professional applications to lawn grasses, golf courses, industrial (office park), municipal and residential lawns are not within the scope of the Worker Protection Standard.

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

Storage and Disposal

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

Pesticide Storage: Important-Never allow Phoenix WingMan DFX to become wet during storage. This may lead to certain chemical changes which will reduce the effectiveness of Phoenix WingMan DFX 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.

Container Handling:

Nonrefillable container. (flexible bags - all weights) Do not reuse or refill this container. 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.

Nonrefillable container. (Rigid nonrefillable container of capacity 50 lbs or less) Do not reuse or refill this container. Clean container 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 % full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank of store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available 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.

Refillable Container. (Rigid refillable container of capacity 50 lbs or less) Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or fineath, collection system. Repeat this rinsing procedure two more times.

Contact customer service toll free at 1-800-438-6071, or by E-mail at customer-service.us@uniphos.com York container return or recycling/disposal instructions.

Phoenix WingMan DFX, a dispersible granule 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 Phoenix WingMan DFX 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 Phoenix WingMan DFX 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 Phoenix Environmental Care, LLC representative for specific recommendations.

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

Apply Phoenix WingMan DFX 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 Phoenix WingMan DFX through any other type of irrigation system.

Crop injury or lack of effectiveness can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, 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 systems 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 INSTRUCTIONS FOR PUBLIC WATER SYSTEMS:

- 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 a least 25 individuals daily at least 60 days out of the year.
- The migation 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 overflowrim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 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.

- 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.
- 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.

SPECIFIC INSTRUCTIONS FOR SPRINKLER

IRRIGATION SYSTEMS:

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Good agitation is required in the injection tank.
- In moving systems, apply specified dosage of Phoenix WingMan DFX as a continuous injection. In non-moving systems inject Phoenix WingMan DFX for 15 to 30 minutes at end of cycle. Use the least amount of water possible consistent with uniform coverage.
- Mix the amount of Phoenix WingMan DFX 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.
- Stop injection equipment after treatment is completed and continue to operate irrigation equipment until all Phoenix WingMan DFX 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.

Apply in the field, nursery or greenhouse as a thorough coverage spray, using 1 to 2 lbs. Phoenix WingMan DFX per acre (1-1/2 to 3 tsp. per gallon).

Plant sensitivities to Phoenix WingMan DFX 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 Phoenix WingMan DFX. Neither the manufacturer nor seller has determined whether or not Phoenix WingMan DFX can be safely used on ornamental or nursery plants not listed on this label. The user should determine if the Phoenix WingMan DFX can be used safely prior to commercial use. In a small area, apply of the recommended rates to the plants in question, i.e. bedding plants, foliage, etc., and observe for 7 to 10 can be days for symptoms of phytotoxicity prior to commercial use. Use Phoenix WingMan DFX in geninercials are greenhouses and nurseries for control of fungal diseases of flowers, foliage and ornamentals.

Aerial Application: For aerial applications made to field-planted ornamentals, apply 1 to 2 bas per acre; a c minimum rate of 5 gals. of spray per acre must be used during aerial applications.

Application of Dilute Sprays: Apply as thorough coverage spray using 1 to 2 lbs. per acre or 1 to 2 lbs. per 100 gals of water. Begin application at first sign of disease and repeat at 7 to 10 day intervals or as needed; a suse shorter interval during periods of frequent rains or when severe disease conditions persist. Phoenix

WingMan DFX 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. Phoenix WingMan DFX is recommended for use on certain flower, foliage and ornamental plants listed in the table below for control of the following diseases and pathogen.

Plant	Pathogen controlled
Abutilon	Alternaria, Cercospora, Cladosporium,
Abdulon	Colletotrichum, Puccinia
African violet	Alternaria, Botrytis
Ageratum	Alternaria, Sclerotium, Rhizoctonia, Puccinia
Aglaonema	Alternaria
Almond, ornamental	Botrytis, Cladosporium, Coryneum, Gloeosporium, Monilinia
Alyssum	Microsphaera alni
Andromeda	Exobasidium, Rhytisma, Venturia
Anthurium	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
Aster	Alternaria, Ascochyta, Botrytis, Colletotrichum, Fusarium, Phomopsis, Phyllosticta, Ramularia, Rhizoctonia, Septoria, Puccinia, Uromyces
Aucuba japonica	Alternaria, Cercospora, Gloeosporium, Phomopsis, Phyllosticta
Azalea	Alternaria, Botrytis, Cladosporium, Colletotrichum, Cylindrocladium, Ovulinia
Baby's breath	Botrytis, Rhizoctonia
Basswood	Cercospora, Phyllosticta
Begonia	Botrytis, Gloeosporium, Cercospora, Rhizoctonia
Birch	Cylindrosporium, Gloeosporium, Glomerella, Melampsoridium, Taphrina
Bougainvillea	Colletotrichum
Boxwood	Fusarium, Volutell
Buckeye	Cercospora, Giomerella, Guignardia, Monchaetia, Phyllosticta, Septoria, Taphrina
Buffalo berry	Cylindrosporium, Puccinia, Rhizoctonia, Septoria
Catalpa	Alternaria, Cercospora, Gloeosporium, Phomopsis, Rhizoctonia
Camellia	Botrytis, Cercospora, Elsinoe, Exobasidium, Glomerella, Pestalotia, Phomopsis, Phyllosticta

Plant	Pathogen controlled
Carnation	Alternaria, Botrytis, Cladosporium, Colletotrichum, Fusarium, Helminthosporium, Septoria, Stemphylium, Uromyces
Cedar	Lophodermium, Gymnosporangium
Cherry, ornamental	Alternaria, Cercospora, Cladosporium, Coccomyces, Coryneum, Fusicladium, Monilinia, Phomopsis, Phyllosticta, Taphrina
Chinese evergreen	Colletotrichum, Gloeosporium
Christmas cactus	Alternaria, Cercospora, Colletotrichum, Fusarium, Phomopsis
Chrysan- themum	Alternaria, Ascochyta, Bipolaris, Botrytis, Cercospora, Cylindrosporium, Helminthosporium, Phyllosticta, Septoria, Stemphylium
Cockscomb (Celosia)	Alternaria, Cercospora
Coleus	Alternaria, Botrytis, Phyllosticta
Columbine	Botrytis, Rhizoctonia, Ascochyta, Cercospora, Septoria, Puccinia
Coryline	Cercospora
Cotoneaster	Cercospora, Phyllosticta, Venturia
Crabappie, ornamentai	Marssonina, Phyllosticta, Septoria, Gymnosporangium, Venturia
Crape myrtle	Cercospora, Phomopsis, Phyllosticta
Croton	Gloeosporium
Cuphea (Mexican heather)	Gloeosporium, Rhizoctonia
Cyclamen	Botrytis, Cladosporium, Fusarium, Glomerella, Phyllosticta, Ramularia
Cypress	Coryneum, Fusarium, Gymnosporangium, Lophodermium, Monchaetia, Pestalotia, CCCC Phomopsis
Dahlia	Alternaria, Botrytis, Fusarium, Rhizoctofiia 🖰
Daisy	Botrytis, Cercospora, Wactzelia
Daisy, Shasta	Cylindrosporium, Septoria, Fusarium
Daisy, Transvall	Alternaria, Botrytis, Gloeosporium
Daylily	Alternaria, Botrytis, Cercespora, Colletotrichum, Phombýsis, Phyllosticta, Puccinia
Delphinium	Ascochyta, Botrytis, Cercospora, Diaporthe, Fusarium, Phyllosticta, Puccinia, Ramuiaria, Septoria, Volutella

Plant	Pathogen controlled
Dieffen- bachia	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
Euonymus	Cercospora, Colletotrichum, Gloeosporium, Marssonina, Ramularia, Septoria, Whetzelinia
Fatsia	Alternaria, Cercospora, Colletotrichum, Phyllosticta
Fern	Botrytis, Cercospora, Curvularia, Cylindrosporium, Glomerella, Phyllosticta, Taphrina
Ficus	Alternaria, Ascochyta, Cephalosporium, Cercospora, Cladosporium, Colletotrichum, Fusarium, Gloeosporium, Glomerella, Mycosphaerella, Phomopsis, Stemphylium
Fir (Abies)	Cephalosporium, Phomopsis, Sphaeropsis, Lophodermium, Melampsora
Fir, Douglas	Phaeocryptopus
Fir, Frasier	Phaeocryptopus
Firethorn	Fusarium, Fusicladium, Rhizoctonia
Fittonia	Rhizoctonia
Four-o'clock	Cercospora, Rhizoctonia
Fuchsia	Botrytis, Phomopsis, Septoria
Garden balsam (Lady's slipper)	Alternaria, Botrytis, Cercospora
Gardenia	Alternaria, Botrytis, Diaporthe, Mycosphaerella, Pestalotia, Phomopsis, Phyllosticta, Rhizoctonia
Geranium	Alternaria, Ascochyta, Bipolaris, Botrytis, Cercospora, Cylindrosporium, Helminthosporium, Puccinia, Ramularia, Rhizoctonia, Septoria, Uromyces, Venturia
Gladiolus†	Alternaria, Botrytis, Cladosporium, Curvularia, Rhizoctonia, Septoria, Stemphylium
Gloxinia	Botrytis, Colletotrichum
Gold dust tree	Gloeosporium, Glomerella, Pestalotia, Phyllosticta

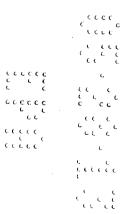
Plant	Pathogen controlled
Gomphrena	Cercospora
Gypsophila	Botrytis, Rhizoctonia
Hawthorn	Cercospora, Cylindrosporium, Gloeosporiun Gymnosporangium, Monilinia, Mycosphaerella, Phyllosticta, Septoria, Venturia
Hemlock, Eastern (Tsuga)	Botrytis, Cylindrosporium, Melampsora, Rhizoctonia
Hibiscus	Alternaria, Cercospora, Colletotrichum, Fusarium, Phyllosticta
Hickory	Cercospora, Cladosporium, Elsinoe, Fusarium, Gnomonia, Mycosphaerella, Pestalotia, Phyllosticta, Septoria
Holly	Phyllosticta
Hollyhock	Alternaria, Ascochyta, Cercospora, Colletotrichum, Puccinia, Septoria
Honeysuckle	Alternaria, Cercospora, Gloeosporium, Herpobasidium, Phyllosticta
Horse chestnut	See Buckeye
Hydrangea	Ascochyta, Botrytis, Cercospora, Colletotrichum, Phyllosticta, Rhizoctonia, Septoria
Impatiens	Cercospora, Phyllosticta, Rhizoctonia, Septoria
Indian hawthorn	Entomosporium
Iris	Ascochyta, Botrytis, Cladosporium, Fusarium, Kabatiella, Phyllosticta, Puccinia, Rhizoctonia
lvy	Colletotrichum, Glomerella, Phyllosticta, Ramularia, Sphaeropsis, Cladosporium, Rhizoctonia
Jade plant	Gloeosporium, Phomopsis
Juniper	Cercospora, Coryneum, Gymnosporangium, Lophodermium, Pestalotia, Phomopsis, Stigmina
Kalanchoe	Cercospora, Stemphylium cec
Larkspur	See Delphinium
Laurel, cherry	Alternaria, Cercospora, Coccomyces, Monilinia, Phyllosticta, Sepforia
Laurel, mountain	Cercospora, Mycosphacrella, Pestalotia, Centropolis, Rhytisma, Septoria
Lavender, cotton	Septoria CCCCC CCCC
Lilac	Botrytis, Cercospora, Cladosporium, Cocco Cylindrocladium, Gloeosporium

Plant	Pathogen controlled
Lily	Botrytis, Cercospora, Cladosporium, Colletotrichum, Fusarium, Puccinia, Ramularia, Rhizoctonia
Lirope	Alternaria, Cercospora, Colletotrichum, Leptothyrium
Lobelia	Botrytis, Cercospora, Puccinia, Rhizoctonia, Septoria
Loquat	Colletotrichum, Fusicladium, Pestalotia, Phyllosticta, Septoria
Magnolia	Alternaria, Cercospora, Cladosporium, Colletotrichum, Glomerella, Rhizoctonia
Mahonia	Cercospora, Cylindrocladium, 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
Nasturtium	Botrytis, Cercospora, Puccinia
Nannyberry	Botrytis, Cercospora, Cladosporium, Helminthosporium, Monochaetia, Phomopsis, Phyllosticta, Ramularia
Nephathytis	Cephalosporium
Nicotiana	Alternaria
Nierembergia	Botrytis
Oak	Cephalosporium, Cercospora, Cladosporium, Cronartium, Elsinoe, Fusarium, Gloeosporium, Gnomonia, Marssonina, Phyllosticta, Septoria, Taphrina, Venturia
Orchid	Cercospora, Fusicladium, Mycosphaerella, Phyllosticta, Puccinia, Septoria
Osmanthus	Alternaria, Cercospora, Colletotrichum, Phyllosticta
Pachysandra	Cronartium, Gloeosporium, Phyllosticta, Septoria, Sphaeropsis, Volutella
Palm, Areca	Alternana, Cercospora, Colletotrichum, Phomopsis, Phyllosticta, Septoria
Palms, Arenga	Cercospora, Colletotrichum, Cylindrocladium, Pestalotia, Phoma, Stigmina
Palm, cabbage	Fusarium, Gloeosporium, Pestalotía, Stigmina

Dlant	Della and Maria
Plant	Pathogen controlled
Palm,	
coconut	Pestalotia
Palm, date	Alternaria, Fusarium, Helminthosporium, Pestalotia
Palm, king	Alternaria, Fusarium, Helminthosporium, Pestalotia, Phomopsis
Palm, phoenix	Alternaria, Cercospora, Fusarium, Gloeosporium, Pestalotia, Phomopsis, Stigmina
Palm, queen	Glomerella, Septoria
Palm, royal	Alternaria, Cercospora, Colletotrichum, Helminthosporium
Palm, Washington	Cercospora, Colletotrichum, Cylindrocladium, Pestalotia, Phoma, Stigmina
Pansy	Alternaria, Botrytis, Cercospora, Colletotrichum, Peronospora, Phyllosticta, Ramularia, Rhizoctonia
Peach, ornamental	Cercospora, Cladosporium, Coryneum, Fusarium, Glomerella, Monilinia, Mycosphaerella, Phomopsis, Phyllosticta, Taphrina
Pear, ornamental	Alternaria, Botrytis, Cercospora, Cladosporium, Coryneum, Elsinoe, Fusarium, Glomerella, Gymnosporangium, Helminthosporium, Monilinia, Mycosphaerella, Phomopsis, Phyllosticta, Venturia
Peony	Alternaria, Botrytis, Cercospora, Cladosporium, Gloeosporium, Phyllosticta, Septoria
Peperomia	Colletotrichum, Gloeosporium, Rhizoctonia
Periwinkle	Alternaria, Botrytis, Cladosporium, Colletotrichum, Phomopsis, Phyllosticta, Puccinia, Rhizoctonia, Septoria
Petunia	Cercospora, Puccinia, Rhizoctonia, Stemphylium
Philodendron	Gloeosporium, Colletotrichum
Phlox	Botrytis, Colletotrichum, Ascochyta, Cercospora, Phyllosticta, Puccinia, Septoria, Ramularia, Stemphylium, Volutella
Photinia	Cercospora, Gloeosporium, Gymnosporangium, Lophodermium, Pestalotia, Phyllosticta, Septoria
Pieris	Alternaria, Pestalotia, Phyllosticta, Rhytisma
Pilea	Alternaria, Botrytis, ercospora;
Pine, Norfolk Island	Botrytis, Colletotrichum; Cronartium, ักกับ Cylindrocladium, Fusariบm Lophodermium, Pestalotia, Rhizoctonia, Septoria, Sirococcus
Pine	Alternaria, Botrytis, Cronartium, Fusarium, Lophodermium, Monochaetia, Rhizoctonia, Septoria, Sirococcus

Plant	Pathogen controlled
Pittosporium	Alternaria, Cercospora, Gnomonia, Mycosphaerella, Phyllosticta, Rhizoctonia, Septoria
Plane tree	Cercospora, Gnomonia, Phyllosticta, Septoria
Plum, ornamental	Botrytis, Cercospora, Cladosporium, Coccomyces, Coryneum, Monilinia, Phyllosticta, Taphrina
Poinsettia††	Botrytis, Cercospora, Fusarium, Uromyces
Poplar	Cercospora, Ciborinia, Colletotrichum, Cylindrocladium, Fusarium, Marssonina, Melampsora, Mycosphaerella, Phyllosticta, Septoria, Stigmina, 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
Pyracantha	Botrytis, Cercospora, Diplodia, Phomopsis, Phyllosticta, Sphaeropsis
Quince, flowering	Cercospora, Fabraea, Gymnosporangium, Septobasidium
Red cedar, western (Thuja)	Keithia (or Didymascella)
Red tip	See Photinia
Redwood, Sequoia	Botrytis, Cercospora, Mycosphaerella, Pestalotia, Phomopsis
Rhododendr on	Alternaria, Cercospora, Coryneum, Gloeosporium, Glomerella, Guignardia, Lophodermium, Mycosphaerella, Pestalotia, Phomopsis, Rhizoctonia, Septoria, Venturia
Rose	Alternaria, Bipolaris, Botryosphaeria, Botrytis, Cercospora, Cladosporium, Cylindrocladium, Diplocarpon, Elsinoe, Gloeosporium, Helminthosporium, Leptosphaeria, Monochaetia, Mycosphaerella, Peronospora, Phyllosticta, Septoria
Rosemary	Rhizoctonia
Russian olive	Cercospora, Colletotrichum
Sage	Cercospora, Peronospora, Puccinia, Ramularia, Rhizoctonia
Salvia	Cercospora, Puccinia

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Plant	Pathogen controlled
Santolina	Botrytis
Senecio	Cercospora, Gloeosporium, Phyllosticta, Puccinia, Ramularia, Septoria
Schefflera	Alternaria
Snakeplant	Fusarium, Gloeosporium
Snapdragon	Alternaria, Bipolaris, Botrytis, Cercospora, Colletotrichum, Drechslera, Fusarium, Helminthosporium, Peronospora, Phyllosticta, Puccinia, Rhizoctonia
Spathiphyllu m	Alternaria
Spindletree	See Euonymus
Spirea	Cylindrosporium
Spruce	Ascochyta, Botrytis, Cladosporium, Lophodermium, Rhizoctonia
Spurge	Cercospora, Melampsora, Puccinia
Statice	Alternaria, Ascochyta, Botrytis, Cercospora, Colletotrichum, Rhizoctonia, Uromyces
Strawflower	Fusarium
Sumac	Cercospora, Cladosporium, Fusarium, Phyllosticta, Septoria, Taphrina
Sunflower, ornamental	Alternaria, Puccinia
Syngonium	Cephalosporium, Erwinia, Fusarium



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Plant	Pathogen controlled				
Tulip	Botrytis				
Venus flytrap	Colletotrichum				
Verbena	Alternaria, Ascochyta, Botrytis, Cercospora, Phyllosticta, Septoria, Puccinia, Rhizoctonia, Septoria, Stemphylium				
Viburnum	Botrytis, Phomopsis, Cercospora, Helminthosporium, Monochaetia, Ramularia, Cladosporium				
Walnut	Cercospora, Cladosporium, Cylindrocladium, Cylindrosporium, Gnomonia				
Willow	Ascochyta, Cercospora, Ciborinia, Cylindrosporium, Fusicladium, Gloeosporium, Marssonina, Melampsora, Phomopsis, Phyllosticta, Ramularia, Rhytisma, Septoria, Taphrina, Venturia				
Wisteria	Alternaria, Cercospora, Colletotrichum, Gloeosporium, Pestalotia				
Yucca	Cercospora, Cylindrosporium, Gloeosporium, Puccinia				
Zebra plant	Alternaria, Cercospora, Colletotrichum				
Zinnia	Alternaria, Botrytis, Cercospora, Rhizoctonia				

[†] Do not exceed 0.75 lb per 100 gallons on flower spikes. †† Do not exceed 1.5 lb per 100 gallons. This product is not recommended for the treatment of

marigolds due to highly variable plant responses

CHRISTMAS TREES: PLANTATIONS AND NURSERIES

Aerial application: Apply 1 to 2 lb. per acre using a minimum rate of 10 gallons of spray per acre during aerial application.

Application of dilute sprays: Apply as thorough coverage spray using 1 to 2 lb. per acre or 1 to 2 lbs. per 100 gallons of water.

Begin application at first sign of disease and repeat every 7 to 10 days. Use the shortest spray interval during periods of frequent rain, when severe disease conditions persist or during periods of rapid plant growth. This product may be used alone or in combination with other fungicides.

Use Site	Pathogen controlled	Application rate (lb./acre or lb./100 gals.)
Christmas trees, including fir, spruce, pine	Ascochyta, Alternaria, Botrytis, Cephalosporium, Cladosporium, Cronartium, Fusarium, Lophodermium, Melampsora, Monchaetia, Phomopsis, Rhizoctonia, Septoria, Sirococcus, Sphaeropsis	1 to 2 lb. per acre or 1 to 2 lb. per 100 gallons, make applications at 7 to 10 day intervals

GRASSES: SODFARMS, TURF USES

For use on sod farms, golf courses, professionally managed college and professional sports fields, industrial and commercial lawns. Applications are restricted to non-residential turf grasses by professional applicators. Not for homeowner use. For sod farm applications, follow provisions within the Agricultural Use Requirements Box. For turf uses, follow provisions within the Non-Agricultural Use Requirements Box.

		1	PPLICATION		
CROP	DISEASE/PEST	RATE	TIMING INTERVAL	LIVESTOCK GRAZING/ FEEDING	COMMENTS
Sod farm (WPS use): Agricultural Use Requirements Box	Algae	6 oz. in 3 to 5 gal./1000 sq. ft.; 16 lbs. in 130 - 220 gals./acre	Begin when algae begins to appear. Repeat at 7-day intervals as long as condition persists.	Do not graze treated areas or feed clippings to livestock.	Do not use on established residential lawns. do not harvest sod for 5 days Do not use on grasses
	Copper Spot (Gloeocercospora sorghi)	4 to 8 oz. in 3 to 5 gals./1000 sq. ft.; 11-22 lbs. in 130- 220 gals./acre	Begin application when disease appears. Repeat at 7-day intervals as		grown for seed. Do not use on grasses
Turf grasses (Non-WPS uses): Non-Agricultural Use Requirements Box	(Fusarium Blight (Fusarium spp.)	4 to 8 oz. in 3 to 5 gals./1000 sq. ft.; 11 - 22 lbs. in 130 - 220 gals./acre	long as condition persists.		intended for grazing, such as range or pasture grasses. When conditions are unusually favorable for
Examples Include: Golf	Gray Leaf Spot (Pyricularia grisea)	8 oz. in 3 to 5 gals./1000 sq. ft.; 22 lbs. in 130 - 220 gals./acre			disease, use 6 - 8 ozs./ 1000 sq. ft.; 16 - 22 lbs./acre and reduce intervals to 3 to 5 days.
courses, professional applications to: industrial (office park) and municipal lawns.	Red Thread (Laetisaria fuciformis)	4 to 8 oz. in 3 to 5 gals./1000 sq. ft.; 11 - 22 lbs. in 130-220 gals./acre			
	Slime Mold (Mucilago, Physarum, Fuligo)	4 to 8 oz. in 3 to 5 gals./1000 sq. ft.; 11 - 22 lbs. in 130 - 220 gals./acre			
	Dollar Spot (Sclerotinia homiocarpa)	6 to 8 oz. in 3 to 5 gals./1000 sq. ft.; 16 - 22 lbs. in 130 - 220 gals./acre			
·	Pythium Blight (<i>Pythium</i> sp.)	8 oz. in 3 to 5 gals./1000 sq. ft.; 22 lb in 130 - 220 gals./acre	Repeat at 5-day intervals, or more frequently if conditions are favorable for disease development		
	Fusarium Snow Mold	6 to 8 oz. in 3 to 5 gals./1000 sq. ft.; 16 - 22 lbs. in 130 - 220 gals./acre	Apply at 2 to 6 week intervals during winter		
	Leaf Spot (Helminthosporium spp.) Rhizoctonia solani Brown Patch	4 oz. in 3 to 5 gals./1000 sq. ft.; 11 lbs. in 130 - 220 gals.	Begin when disease appears. Repeat at 7-day intervals as long as condition persists		, ((, °, °, °, °, °, °, °, °, °, °, °, °, °,
÷	Leaf Rust Stem Rust Stripe Rust	4 oz. in 3 to 5 gals./1000 sq. ft.; 11 lbs in 130 - 220 gals.	Begin when disease threatens. Repeat at 7 to 10-day intervals as long as disease persists.		(

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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