

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MAR 1 3 2013

Sherry B. Hutcheson Regulatory Affairs Manager United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Subject:

Revised label - alternate brand name

Product Name:

Kestrel MEX

EPA Reg. No.:

70506-253

Your submission:

Notification dated February 20, 2013

OPP Decision Number:

475819

Dear Ms Hutcheson:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 and PRN 2001-5. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10 and PRN 2001-5.

The Agency acknowledges your request for the alternate brand name "Phoenix Kestrel MEX".

The label submitted with the application has been stamped "Notification" and will be placed in our records.

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

Sincerely,

Driss Benmhend

Acting Product Manager (20)

Fungicide Branch

Registration Division (7504P)

| Please read instructions on reverse before comp | | ្ស form |
|---|-----|---------|
| avnires 05-31-98 | *** | |

m Approved, OMB No. 2070-0060, Approval 2

| O EDA | Ļ | Jnited States | | ☐ Re | gistration | OPP Identifier Number |
|---|---|----------------------|--------------------|---------------------------------|---------------------------|---|
| EPA Env | rironmental Protection Agency | | | | | |
| | Wash | ington, DC 2046 | 30 | ⊠ Otl | ner: Notification | |
| | | Applicatio | n for Pe | sticide - Se | ection I | |
| 1. Company/Product Number 70506-253 | | | | Product Manage a Giles-Parke | | Proposed Classification |
| 4. Company/Product (Name) | | | PM# | a Glies-Faike | 71 | None Restricte |
| Kestrel MEX | | | Acting | | | |
| 5. Name and Address of Applicant (I United Phosphorus, Inc. | Include ZIP (| Code) | | | | with FIFRA Section 3(c)(3) |
| 630 Freedom Business Cen | ter, Suite | 402 | (b)(i), i | ny product is | similar or identical | in composition and labeling |
| King of Prussia, PA 19406 | · | | | eg. No | | |
| Check if this is a new a | ddress | | Produc | t Name | | |
| | | | Section | | | |
| Amendment – Explain below. | | | | | ited labels in response t | to Agency letter dated |
| Resubmission in response to A | Agency letter | dated | | | Application | |
| Notification - Explain below. | | | | | xplain below | |
| Explanation: Use additiona | | | | | | 1 |
| Changes to label related to EPA This notification is consistent w | | | | | | |
| changes have been made to the | | | | | | |
| U.S.C. Sec. 1001 to willfully m | ake any fal | se statement to | EPA. I fu | rther understar | nd that if this notifica | tion is not consistent with the |
| terms of PR Notice 98-10 and 4 | | | t may be i | n violation of | FIFRA and I may be | subject to enforcement action |
| and penalties under Sections 12 | and 14 of | FIFRA. | | | | |
| | | | Section | n III | | |
| 4 Material This Product Will Be Do | okagod In: | | Secur |) - | | |
| Material This Product Will Be Pa Child-Resistant Packaging | | ckaging | | Water Solub | le Packaging | 2. Type of Container |
| Yes* | Ye | es | | Yes | | Metal |
| ⊠ No | □ N | | | ⊠ No | | Plastic |
| | If "Yes" Unit Pa | | o. per intainer | If "Yes" Package wgt | No. per container | Glass |
| *Certification must | 0 | onaging nga oo | | . donago wg | Johnson | Paper |
| be submitted 3. Location of Net Contents Information | tion | 4. Size(s) Re | tail Contair | Or. | 5 Location | Other (Specify) of Label Directions |
| Label Contents information of the Contents information of | | 4. 3/2e(s) Ne | tan Contan | Ci | On Labe | |
| | | 1 gallon, 2.5 ga | llon, 7.5 ga | illon | | ling accompanying product |
| 6. Manner in Which Label is Affixed | I to Product | Lithograp | | Oth | | |
| | | ☐ Paper gl | | | • | |
| | | | Section | n - IV | | C C C C G |
| Contact Point (Complete items dia | rectly below | for identification o | f individual | to be contacted, | if necessary, to process | s this application) |
| Name | | Title | | | | Telephore No. (Include Area |
| Sherry Hutcheson | | | | Affairs Mana | ger | Code)229-247-9041 હવાદાદ |
| | | Certification | | | | 6. Date Application |
| | I certify that the statements I have made on this form and all attact acknowledge that any knowingly false or misleading statement ma | | | | | fReceived fife (Stamped) |
| under applicable law. | | | | | | |
| 2. Signature | | | Title | Affaire Man- | gor | |
| Shen | | Re | egulatory | Affairs Mana | yeı | 6 6 6 6 6 |
| (| | • | | | | ı " |
| 4. Typed Name | | 5. | Date | | | (|



United Phosphorus, Inc.

Sherry B. Hutcheson 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Phone: (229) 247-9041 Fax: (229) 241-9699

February 20, 2013

Cynthia Giles-Parker (Acting PM 21) Document Processing Desk (NOTIF) Office of Pesticide Programs (7504P) U.S. Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Ave., N.W. Washington, DC 20460

RE: Notification of label changes for Kestrel MEX (EPA Reg. No. 70506-253)

Dear Ms. Giles-Parker,

Due to the transfer of this product to United Phosphorus, Inc., we are providing a notification to the Agency which addresses the following updates to the label.

Notification of the Alternate Brand Name to Phoenix Kestrel MEX

transfer from 81943-6 Company name and address to reflect current ownership.

Emergency contact information has been updated.

Warranty statement updated to the one used by United Phosphorus, Inc.

Addition of FRAC information per PR Notice 2001-5

In addition to this letter the following are enclosed:

EPA application form, 8570-1,

- One copy of the label clearly marked to show the proposed changes,
- One clean copy of the proposed label.

If you have any questions, please feel free to contact me at 229-247-9041 or sherry.hutcheson@uniphos.com

Thank you for your kind attention to this matter.

Best regards,

Sherry B. Hutcheson

Regulatory Affairs Manager

February 20, 2011

NOTIFICATION

MAR 1 3 2013

EPA Est. No.

| Group | G1 | Fungicide |
|-------|----|-----------|
| | · | |

PHOENIX KESTREL MEX

Broad Spectrum and Systemic Disease Control for Turf and Ornamentals and a Flare Root-injected* Systemic Fungicide for Control of Selected Diseases in Trees *Flare root-injected uses are not registered for use in California.

| | 14.3% |
|--------------------------|---|
| | S: |
| | |
| Phoen | nix Kestrel MEX contains 1.3 lbs. of active ingredient per gallon. |
| | KEEP OUT OF REACH OF CHILDREN |
| | CAUTION FIRST AID |
| TE CHIALLONED | |
| IF SWALLOWED | Call a poison control center or doctor immediately for treatment |
| | advice. |
| | Have affected person sip a glass of water if able to swallow. Do not induce varieties unless told to do so by a naisen control center. |
| | 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 ON SKIN OR | Take off contaminated clothing. |
| CLOTHING | Rinse skin immediately with plenty of water for 15 to 20 minutes. |
| | Call a poison control center or doctor for treatment advice. |
| IF IN EYES | Hold eye open and rinse slowly and gently with water for 15 to 20 |
| 4 | 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 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. |
| | ((() |
| | |
| | call the Rocky Mountain Poison Control Center at 1-866-673-6671. Have the |
| product container or lab | el with you when calling a poison control center or doctor, or going for treatment. |
| NOTE TO DITURIOTAN | It If in gostad, induse emesis or layage stomach. Treat symptomatically |
| NOTE TO PHYSICIAN | I: If ingested, induce emesis or lavage stomach. Treat symptomatically. |
| EPA Reg. No.70506-253 | <u> </u> |
| LI A Reg. 140./0000-20. | , , , |

Page 1 of 17

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

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

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 C on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or Viton
- · Shoes plus socks

Follow 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.

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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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
- * Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or Viton
- * 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.

Do not enter or allow others to enter treated areas without protective clothing until sprays have dried.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

PRODUCT INFORMATION

Phoenix Kestrel MEX is a systemic fungicide for use on turfgrasses for the control of dollar spot (Sclerotinia homoeocarpa), brown patch (Rhizoctonia solani), anthracnose (Colletotrichum graminicola), red thread (Laetisaria fuciformis), pink patch (Limonomyces roseipellis), rust (Puccinia graminis), powdery mildew (Erysiphe graminis), stripe smut (Ustilago striiformis and Urocystis agropyri), summer patch (Magnaporthe poae), necrotic ring spot (Leptosphaeria korrae), spring dead spot (Leptosphaeria korrae, Leptosphaeria narmari, Ophiosphaerella herpotricha, Gaeumannomyces graminis), take-all patch (Gaeumannomyces graminis), leafspot (Bipolaris spp., Drechslera spp.), gray leafspot (Pyricularia grisea), pink snowmold (Microdochium nivale), Fusarium patch (Fusarium nivale), gray snowmold (Typhula spp.), yellow patch (Rhizoctonia cerealis), and zoysia patch (Rhizoctonia solani).

Phoenix Kestrel MEX also controls numerous diseases on ornamentals and other landscape and nursery plantings. It controls powdery mildews, rusts, leafspots, scabs, and blights. Refer to the appropriate controls powdery mildews, rusts, leafspots, scabs, and blights. Refer to the appropriate controls are controls of the control of the controls of the controls of the control of the

Do not apply this product through any type of irrigation system.

MIXING INSTRUCTIONS

Fill the spray tank ½ to ¾ full with water. Add the proper amount of Phoenix Kestrel MEX and the nest of the water. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

If Phoenix Kestrel MEX is tank mixed with other products, use the following sequence:

1. Always check the compatibility of the tank mix using a jar test with proportionate amounts of Phoenix Kestrel MEX, other chemicals to be used, and the water, before mixing in the spray tank.

Phoenix Kestrel MEX Draft Label Notification PR Notice 98-10 and 2001-5 clean Copy February 20, 2011

- 2. Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended.
- 3. Fill tank at least $\frac{1}{2}$ full of clean water.
- **4.** Add wettable powders to the tank first, allowing them to completely suspend in the tank before proceeding. This process can be hastened by premixing the product in water before adding to the tank.
- 5. Add flowables or suspensions next.
- 6. Add Phoenix Kestrel MEX next.
- 7. Add emulsifiable concentrates last.
- 8. Do not leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply them the same day.

TANK MIXES

For broader spectrum control, Phoenix Kestrel MEX can be tank mixed with other fungicides. For example, Subdue may be tank mixed with Phoenix Kestrel MEX or used alone when conditions are favorable for Pythium blight. Phoenix Kestrel MEX is also compatible with numerous herbicides and insecticides. Check compatibility before tank mixing. Add Unite (3 pts. per 100 gals.) to tank mixes which are physically incompatible. Follow the directions under MIXING INSTRUCTIONS for tank mixes. Observe all directions, precautions, and limitations on labeling of all products used in tank mixes. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

TURFGRASS AND DICHONDRA DISEASE CONTROL

- 1. USE PHOENIX KESTREL MEX IN A PREVENTIVE DISEASE CONTROL PROGRAM.
- 2. Apply in sufficient water to ensure thorough coverage.
- 3. Apply after mowing OR allow sprayed area to completely dry before mowing.
- 4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
- 5. For control of soil-borne diseases, Phoenix Kestrel MEX can be watered in after application.
- 6. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
- 7. For optimum turf quality and disease control, use Phoenix Kestrel MEX in conjunction with turf management practices that promote good plant health and optimum disease control.
- 8. Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
- 9. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.
- 10. Do not apply more than 16 fl. oz. per 1,000 sq. ft./calendar year nor apply more than 5.4 gals. of product per acre per calendar year.
- 11. Do not graze animals on treated areas. Do not feed clippings from treated areas to livestock or pountry.
- 12. Bermudagrass can be sensitive to Phoenix Kestrel MEX. Do not exceed 4 fl. oz. per 1,000 so eft. every 30 days on any variety of bermudagrass. In Florida, do not apply Phoenix Kestrel MEX to bermudagrass
- golf course greens when temperatures exceed 90°F.

Turfgrass - Specific Diseases, Rates, and Application Timing

| Disease | fl. oz. per 1,000 sq. ft. | fl. oz. per acre | Application/Interval Timing | Instructions |
|---|------------------------------|------------------|--------------------------------|---|
| Dollar Spot (Sclerotinia homoeocarpa) | 0.5 | 22 | 7 days | Apply when conditions are favorable for disease development |
| | 0.5 | 22 | 14 days | Tank mix with low label rate of one of the following fungicides: Daconil 2787 F Daconil Ultrex |
| | 1 | 44 | 21-28 days | Tank mix with low label rate of one of the following fungicides: Daconil 2787 F Daconil Ultrex Chipco 26019 |
| | 1-2 | 44-88 | 14-28 days | If using the 1-2 fl. oz. per 1,000 sq. ft. rate without tank mixing, make no more than 3 consectuive applications for dollar spot control before rotating to an alternate EPA-registered fungicide having a different mode of action. |
| Antrhacnose (Collectotrichum graminicola) | 1-2 | 44-88 | 14-28 days | Apply when a conditions are favorable for disease development. When disease pressure is high, use higher rates of Phoenix Kestre MEX and shorter intervals. For |

| Disease | fl og pom 1 000 | fl og nomoone | Application/Inter-1 | February 20, 2011 |
|----------------|--|------------------|-----------------------------|------------------------------------|
| Disease | fl. oz. per 1,000 sq. ft. | fl. oz. per acre | Application/Interval Timing | Instructions |
| | | | | broad spectrum |
| | | | | control, tank mix |
| | | | | with a registered |
| | | | | contact fungicide |
| | | | · | at the label rate. If |
| | | | | disease is present, |
| | | | } | mix 2 fl. oz. of |
| | | | | Phoenix Kestrel |
| | | | | MEX per 1,000 |
| | | | | sq. feet with the |
| | | | | label rate of the |
| | , | • | | above mentioned |
| | | | | contact fungicides. |
| Brown Patch | 1-2 | 44-88 | 14-21 days | Begin applications |
| (Rhizoctonia | 1-2 | . 14-00 | 14-21 days | in May or June |
| solani) | | | | before disease is |
| solalii) | | | | |
| • | ************************************** | | | present. Tank mix |
| | | | | with a registered |
| | | | | contact fungicide |
| | | | | labeled for brown |
| | | | | patch control at |
| | | | | the label rate. |
| | | | | Under conditions |
| | | | | of high |
| | | | | temperatures and |
| | | | | high humidity, use |
| | | | | the higher rates of |
| | | | | Phoenix Kestrel |
| | | | | MEX and shorter |
| | | | | intervals. |
| Powdery Mildew | 1-2 | 44-88 | 14-28 days | Apply when |
| (Erysiphe | | | | conditions are |
| graminis), | | , | | favorable for |
| Rust | | | | disease |
| (Puccinia | | | | development. If |
| graminis) | | | | disease is present, |
| | | | | use 2 fl. oz. of |
| | | • | | Phoenix Kestrel |
| | | | | MEX per 1,600 |
| | | | | sq. ft. Cr. Cr. |
| Red Thread | 2 | 88 | 14-21 days | Apply when |
| (Laetisaria | _ | | 1121 4435 | conditions are |
| fuciformis), | | | | favorable for |
| Pink Patch | | | | |
| (Limonomyces | | | | disease the condition development. |
| roseipellis) | | | | development. |
| Stripe Smut | 1-2 | 44-88 | Fall or Spring | Apply once in the |
| | 1-2 | 77*00 | ran or opinig | fall after grass |
| (Ustiago | 1 | 1 | | tail after grass |

| February | 20, | 2011 |
|----------|-----|------|
| | | |

| Disease | fl. oz. per 1,000 sq. ft. | fl. oz. per acre | Application/Interval Timing | Instructions |
|---|------------------------------|------------------|--------------------------------|---|
| striiformis) (Urocystis agropyri) | | | | becomes dormant or in the early spring before the grass starts to grow. |
| Gray Leafspot (pyricylaria grisea) | 1-2 | 44-88 | 14 days | Apply when conditions are favorable for disease development. If using the 1 fl. oz. per 1,000 sq. ft rate, tank mix with a registered contact fungicide at the label rate. |
| Melting out, Leaf Spot (Bipolaris spp.), (Drechslera spp.) | 1-2 | 44-176 | 14 days | Under light to moderate pressure, apply Phoenix Kestrel MEX to reduce the severity of leaf spot and melting out caused by Helminthosporium – type pathogens. For broad spectrum disease control, tank mix the 1 fl. oz. Phoenix Kestrel MEX rate with a registered contact fungicide at the label rate. Tank mix the 1-2 fl. oz. per 1,000 sq. feet Phoenix Kestrel MEX rate with a registered contact fungicide at the label rate. Tank mix the 1-2 fl. oz. per 1,000 sq. feet Phoenix Kestrel MEX rate with a registered contact fungicide at the |
| Summer Patch, Poa Patch (Magnaporthe poae) | 2 4 | 88 176 | 14 days 28 days | Apply Phoenix, Kestrel MEX beginning in a class April. Use the 4 fl. oz. per 1,000 |

| | | 1 - |
|------------|-----|------|
| February | 20 | 2011 |
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| | | |

| Disease | fl. oz. per 1,000 | fl. oz. per acre | Application/Interval | Instructions |
|--------------------|-------------------|------------------|----------------------|---|
| | sq. ft. | <u> </u> | Timing | |
| | | | | sq. ft. rate on a 28- |
| | | | | day schedule and |
| | | | | the 2 fl. oz. per |
| | | | 1 | 1,000 sq. ft rate on |
| | | | | a 14-day schedule |
| Take-All Patch | 2-4 | 88-176 | Spring and Fall | Apply Phoenix |
| Gaeumannomyces | | 00 170 |) opring and run | Kestrel MEX to |
| graminis) | | | 1 | reduce the severity |
| i aiiiiiiis j | <i>;</i> | | | of take-all patch. |
| • | | | | Make 1 to 2 fall |
| | | | | i e e e e e e e e e e e e e e e e e e e |
| | | | | applications in |
| | | | | September and |
| | | | | October when |
| | | | | night temperatures |
| | | | | drop to 55 F and 1 |
| | | | | to 2 spring |
| | | | | applications in |
| | | 1 | | April and May, |
| | | | | depending on |
| | | | | local |
| | | | | recommendations. |
| Spring Dead Spot | 4 | 176 | 30 days | Make 1 to 3 |
| Leptosphaeria | • | | 20 44,5 | applications. For |
| orrae, | | | | one application, |
| Leptosphaeria | | , | | apply in |
| armari, | | | · | |
| | | | | September or |
| Ophiospharella | | | | October. For |
| erpotricha, | | | | multiple |
| Gaeumannomyces | , | | | applications, begin |
| raminis) | ···· | | | sprays in August. |
| lecrotic Ring Spot | 4 | 176 | Fall or Spring | Apply in the fall |
| Leptosphaeria | | | | and/or the early |
| orrae) | | | | spring depending |
| | | | | on local ccc |
| | | | | recommendations. |
| nowmold Gray | 2-4 | 88-176 | Late Fall | Apply one c |
| Typhula spp.) | | | | application in the |
| ink | | | • | late fall before |
| Microdochium | | | | snow cover. Do |
| vale) | | | | |
| ivaiej | | | | not apply on top of snow. Fore |
| | | | , | |
| | | | | optimum disease |
| | | | | control, the 2 and |
| | | | | 3 fl. oz. Phoenix |
| | | | | Kestrel MEX retes |
| | | | | should be tank |
| *, | | | | mixed with either |
| 1 | | I | 1 | PCNB or |

| Disease | fl. oz. per 1,000 sq. ft. | fl. oz. per acre | Application/Interval Timing | Instructions |
|---|------------------------------|------------------|--------------------------------|---|
| , | | | | chlorothalonil at label rates. |
| Fusarium Patch (Fusarium nivale) | 2-4 | 88-176 | Fall-Early Spring | Apply when conditions are favorable for disease development. |
| Yellow Patch (Rhizoctonia cerealis) | 3-4 | 130-176 | Late Fall | Apply one application in the late fall before snow cover. Do not apply on top of snow. If using a 3 fl. oz. per 1,000 sq. ft. rate, tank mix with a registered contact fungicide at the label rate. |
| Zoysia Patch, large patch of zoysia (Rhizoctonia solani) | 3-4 | 130-176 | Early Fall | Make one application in the early fall (mid-September to mid-October) prior to development of disease symptoms Consult local turfgrass extension experts to determine the optimum application timing for your area. |
| Dichondra Rust (Puccinia Dichondrae) | 2 | 88 | 14-21 days | Apply when a conditions are favorable for disease development. |

Establishment of Cool Season Turfgrass

Phoenix Kestrel MEX provides control of many diseases of turf, and its primary use is as a fungicide for use against the disease listed on this label. As an additional benefit, Phoenix Kestrel MEX will improve the rate of establishment when it is applied to cool season grass seedlings or sod.

New seedlings: Apply 1 fl. oz. per 1,000 sq. ft. at the 2- to 3-leaf stage of growth for faster root development and top growth.

Sod: Apply 1 fl. oz. per 1,000 sq. ft.2-6 weeks before cutting for increased sod knitting and faster establishment after laying.

DISEASE CONTROL IN NURSERIES (FIELD) AND LANDSCAPE PLANTINGS

1. USE PHOENIX KESTREL MEX IN A PREVENTIVE DISEASE CONTROL PROGRAM. To determine the use directions for controlling a disease on an ornamental plant species, select the plant species in Table 1. The number in parentheses following the plant species refers you to the disease(s) controlled in Table 2. Find the disease in Table 2. The letter in brackets following the disease refers you to the application regime

in Table 3.

- 2. Allow spray to dry before overhead irrigation is applied.
- 3. Optimum benefit of Phoenix Kestrel MEX is obtained when used in conjunction with sound disease management practices.

Application Instructions

Phoenix Kestrel MEX may be used at rates of 2-24 fl. oz. per 100 gals. of water for control of diseases of ornamental plant species (see Tables 1, 2, and 3).

Note: For outdoor uses, you can apply up to 5.4 gals. of Phoenix Kestrel MEX per acre per crop per calendar year.

For general disease control in landscapes, apply 6-8 fl. oz. per 100 gals. of water every 21 days. For best control, begin Phoenix Kestrel MEX applications before disease development.

Note: Plant tolerances to Phoenix Kestrel MEX have been found acceptable for the specific genera and species of plants listed under the Directions For Use. Other plant species may be sensitive to Phoenix Kestrel MEX and diseases other than those listed may not be controlled. Before using Phoenix Kestrel MEX on plants or for diseases that are not listed in the Directions For Use, test Phoenix Kestrel MEX on a small-scale basis first.

Do not apply Phoenix Kestrel MEX to African violets, begonias, Boston fern, or geraniums. Apply the recommended rates for a particular type of disease, i.e., rust, powdery mildew, etc., and evaluate for phytotoxicity and disease control prior to widespread use.

Table 1. Ornamentals—Plant Species

Numbers in parentheses refer to diseases controlled. See Table 2.

| Herbaceous Ornamentals | Woody Ornamentals | Nonbearing Fruits and Nuts |
|------------------------|----------------------------|----------------------------------|
| | | (Nurseries and Landscape |
| | | Plantings) cccc |
| †Ajuga (6) | Amelanchier (4d) | Apple (34, 44, 3a) |
| Calendula (4a) | Ash (4c) | Bartlett pear (6) |
| Carnation (5f) | Azalea (2c, 4b) | Cherry (2b, 3d) |
| Chrysanthemum (2a) | Bayberry (6) | Citrus (3m) |
| Delphinium (4a) | Camelia (6) | †Maple (6) |
| English ivy (6) | †Candy tuft (6) | Nectarine (2b) |
| †German statice | Cotoneaster (6) | Peach (2b) |
| †Gomphrena (3a) | Crabapple (3c, 3q, 4c, 5a) | Pecan (3b, 3c, 3f, 3l, 3n, 4e) c |
| †Hollyhock (6) | Crape Myrtle (4a) | Plum (2b) |
| Impatiens (6) | Dogwood (3h, 4c) | Walnut (3j) |
| Iris (5d) | Douglas Fir (5b) | (, , , |
| †Liriope (6) | Elm (6) | |
| Marigold (3a) | Euonyms (6) | |

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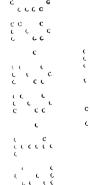
| Herbaceous Ornamentals | Woody Ornamentals | Nonbearing Fruits and Nuts | |
|------------------------|------------------------|-------------------------------------|--|
| | | (Nurseries and Landscape Plantings) | |
| Monarda (4c) | Hawthorn (5a) | | |
| †Peony (6) | Holly (6) | | |
| Phlox (4c) | Juniper (1a) | | |
| Snapdragon (5d) | Lilac (4c) | | |
| Sweet William (3k) | Magnolia (6) | | |
| (Dianthus barbatus) | | | |
| †Vinca (6) | Oaks (3p) | | |
| Zinnia (4c) | Pines (1b, 1c) | | |
| | Poplars (5b) | | |
| | †Privet (6) | | |
| | | | |
| | Pyracantha (30) | | |
| | Raphiolepis (6) | | |
| | †Redbud (6) | | |
| | †Red Tip Photinia (3i) | | |
| | Rhododendron (2c, 3n) | | |
| | Roses (3g, 4e, 5c) | | |
| | (Outdoor Use Only) | | |
| | Shasta Fir (5e) | | |
| | Sweetgum (6) | | |
| | Sycamore (6) | | |
| | Tulip tree (6) | | |
| | Wax myrtle (6) | | |

†Not for use in California

Table 2. Diseases

Letters in brackets refer to application regimes. See Table 3.

- 1. Conifer Blights
- a. Phomopsis juniperovora (Phomopsis Blight) [B]
- b. Sirrococcus strobolinus (Tip Blight) [D]
- c. Sphaeropsis sapinea (Diplodia Tip Blight) [B]
- 2. Flower Blight
- a. Ascochyta chrysanthemi (Ray Blight) [C]
- b. Monilinia spp. [A]
- c. Ovulinia spp. [B]
- 3. Leaf Blights/Spots
- a. Alternaria spp. [B]
- b. Cercospora spp. (Brown Leaf Spot) [C]
- c. Cladosporium spp.(Scab) [C]
- d. Coccomyces hiemalis [A]
- e. Colletotrichum spp. [B]
- f. Cristulariella spp. (Zonate leafspot) [C]
- g. Diplocarpon rosae (Blackspot) [B]
- h. Discula spp. (Anthracnose) [A]



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- i. Fabraea maculata (syn. Entomosporium maculata) [B]
- j. Gnomonia leptostyla (Anthracnose) [C]
- k. Heterosporium echinulatum [B]
- 1. Mycosphaerella caryigena (Downy Spot) [C]
- m. Mycosphaerella fructicola (Greasy Spot) [E]
- n. Septoria spp. (Leaf Scorch) [C]
- o. Spilocaea pyracanthae [B]
- p. Tubakia dryina [D]
- q. Venturia inaequalis (Scab) [A]
- 4. Powdery Mildew
- a. Erysiphe spp. [B]
- b. Microsphaera spp. [C]
- c. Oidium spp. [B]
- d. Podosphaera spp. [B]
- e. Sphaerotheca pannosa [B]
- 5. Rust
- a. Gymnosporangium juniperi-virginianae [A]
- b. Melampsora occidentalis [D]
- c. Phragmidium spp. [B]
- d. Puccinia spp. [B]
- e. Pucciniastrum goeppertianum [D]
- f. Uromyces dianthi [B]
- 6. General

Apply the recommended rate for a particular type of disease, i.e., rust, powdery mildew, etc. Crop tolerance has been demonstrated a rate of 6-8 fl. oz. per 100 gals. on these ornamental plants.

Table 3. Application Regimes

[A] Mix 2-4 fl. oz. of Phoenix Kestrel MEX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 14-21 days during the period of primary infection. If disease is present, tank mix with an EPA-registered contact fungicide. For flower blight, apply Phoenix Kestrel MEX when there is 5-10% bloom and again at 70-100% bloom. For dogwoods, apply the 2-4 fl. oz. rate every 14 days, or apply 8 fl. oz. of Phoenix Kestrel MEX every 28 days.

[B] Mix 5-8 fl. oz. of Phoenix Kestrel MEX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply as needed, beginning when conditions are favorable for disease development. For blackspot, apply with a registered contact fungicide labeled for black spot. For Calendula, apply every 30 days. For diplodia tip blight, make 3 applications every 14 days prior to major period of infection. For juniper phomopsis blight, make first application as soon as junipers start to grow, and repeat the applications every 14-21 days during periods of active growth.

[C] Mix 8-12 fl. oz. of Phoenix Kestrel MEX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 30 days beginning when conditions are favorable for disease development. For pecans, apply the 12 fl. oz. rate beginning at bud break. Apply 3 times on 14-day intervals. For ce walnut, apply 8.5 fl. oz. at 14- to 21-day intervals. For ray blight, apply 12 fl. oz. at 7-day intervals or 20 fl. oz. at 14-day intervals.

[D] Mix 16 fl. oz. of Phoenix Kestrel MEX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply every 14-28 days, beginning when conditions are favorable for disease development. For Douglas fir needle rust, apply once in May. For tip blight, initiate applications in mid-late winter, and apply 3 times at 2-month intervals.

[E] Mix 20-24 fl. oz. of Phoenix Kestrel MEX in 100 gals. of water and apply as a full coverage spray to the point of drip. Apply during June to August time period.

Do not apply to apple, cherry, citrus, nectarine, peach, pecan, pear, plum, or walnut trees that will bear harvestable fruit within 12 months.

Do not use on maple trees to be tapped for syrup production.

A FLARE ROOT-INJECTED SYSTEMIC FUNGICIDE FOR CONTROL OF SELECTED DISEASES IN TREES *Not registered for use in California

Product Information

Phoenix Kestrel MEX is a systemic fungicide for use as a flare root injection for prevention and treatment of (1) oak wilt (Ceratocystis fagacearum) of oaks (Quercus spp.), (2) Dutch elm disease (Ophiostroma ulmi) of elms (Ulmus spp.), (3) sycamore anthracnose (Apiognomonia veneta), and (4) leaf diseases (i.e., Venturia inaequalis, Gymnosporangium juniperi-virginianae, Pucciniastrum goeppertianum, etc.) of crabapple (Malus spp.) It is recommended that Phoenix Kestrel MEX be administered by trained arborists or others trained in injection techniques and in the identification of tree diseases.

Notes: The active ingredient in Phoenix Kestrel MEX has been shown to be safe on a wide range of plant species. Before using Phoenix Kestrel MEX on plants or for diseases that are not listed in the DIRECTIONS FOR USE, test Phoenix Kestrel MEX on a small-scale basis and evaluate for phytotoxicity and disease control prior to widespread use.

Correct Location for Injector Placement

The flare root area is the transitional zone between the trunk and the root system. Uptake and distribution of Phoenix Kestrel MEX is more effective when injections are made into the flare roots. In addition, wounds created in the flare root area close more rapidly in comparison to wounds above the flare root area.

Tree Preparation

- 1. Heavy, thick, or loose outer bark may be carefully shaved to form a smoother injection point and to ensure the operator that the drill hole penetrates through the bark to the xylem.
- 2. If the flare roots are not clearly exposed, carefully remove 2 to 4 inches of soil from the base of the tree to uncover the top of the flare roots. Brush away loose soil.
- 3. Drill holes through the bark, into sapwood, using a clean sharp drill bit. Drill hole diameter skeuld be adequate to allow insertion of injection tees and formation of air tight contact between active xyiem and the delivery point of the injection tees. Generally, a drill hole diameter of $\frac{7}{32} \frac{5}{16}$ inch for elms, sycamores, and crabapples, and $\frac{5}{16}$ inch for oaks is appropriate. Follow manufacturer's instructions for the particular injection device used in the treatment.

Drill hole depth should be adequate to deliver the product into active xylem tissue. Generally, 3/4 inch depth is appropriate, but trees with thick bark may require increased drill hole depth to reach the active xylem layer. Space injectors 3 to 6 inches apart around the base of the tree. Do not drill in the valleys between the flare roots or into cankered areas. Drill above these areas into the trunk, then continue again into sound sapwood on the flares.

4. Disinfect the drill bit between trees with household bleach (20% solution), ethanol, or other disinfectant. Rinse bit with clean water after disinfecting.

- 5. Insert into the drilled holes the injection ports ("tees") which are connected to plastic tubing. The tubing should have inlet and outlet valves.
- 6. Mix the specified amount of Phoenix Kestrel MEX and water thoroughly in the tank before beginning the injection treatment.

Tree measurement

Measure the diameter of the tree using a tree diameter-tape (D-tape) at $4\frac{1}{2}$ feet above the ground. This is the diameter at breast height (DBH). If only a regular tape is available, measure the tree circumference and divide that number by 3.14. For crabapples, measure the diameter at the point where the tree begins to branch.

Preparation of Injection Solution

Dilute 10 ml of Phoenix Kestrel MEX in up to 1 liter of water per inch DBH. Refer to the following table as an example of the amounts of Phoenix Kestrel MEX and water to use:

| DBH Inches | Treatment level (mL) | Water Volume * (L) |
|------------|----------------------|--------------------|
| 5 | 50 | 5 |
| 10 | 100 | 10 |
| 15 | 150 | 15 |
| 20 | 200 | 20 |
| 25 | 250 | 25 |
| 30 | . 300 | 30 |
| 35 | 350 | 35 |
| 40 | 400 | 40 |

^{*}Use up to amount indicated.

Injection

For pressurized injections, with the outlet valve open, connect the tank to the inlet valve and begin pumping solution until all air bubbles come out of the outlet valve. Direct the solution into a container and return the solution to the tank. Shut off the outlet valve. Pressurize tank to 20 to 30 psi. Check for leaks and gently tap in tees if necessary. Maintain continuous pressure on the injection system until the full amount of solution is in the tree.

After injection is complete, remove injection tees and leave drill holes unplugged. A water flush to cleanse the hole will assist with wound closure. Soil should be replaced around the tree. It is not necessary to treat the drill holes with wound paint or other sealing compounds.

Contact your local extension agent for more details on tree injection. The injection system described is meant as an example; please refer to manufacturer's instructions when using other types of tree injection systems.

Retreatment

At the initial injection of Phoenix Kestrel MEX, take notes on the level of disease in each tree. Reevaluate disease level in trees at 12-month intervals after treatment for the potential need for retreatment with the Phoenix Kestrel MEX. Preventive applications should be considered 12 to 36 months after the initial injection. Trees in high disease risk areas or high value trees should be evaluated for possible retreatment

12 months after each treatment. Follow application procedures described above for repeat injections; new drill holes will be needed for subsequent treatments.

OAKWILT: OAKS

*Not registered for use in California

Preventive and Therapeutic Treatment

Use 10 ml of Phoenix Kestrel MEX in up to 1 liter of water per inch DBH. For very high disease pressure, 20 ml of Phoenix Kestrel MEX per inch DBH may be used.

In the upper Midwest, treat oaks after June 15. Wounds in oaks in the upper Midwest between May 15 and June 15 attract insects that transmit the oak wilt pathogen.

Oak trees exhibiting less than 20% crown loss from oak wilt have the best chance of responding to treatment by Phoenix Kestrel MEX. Preventive application is more effective than therapeutic treatment. Trees in advanced stages of disease development may not respond to treatment.

Uninfected trees will generally absorb the full amount of Phoenix Kestrel MEX: water solution within 2 hours when injected under pressure. Trees exhibiting specific symptoms or those symptomless trees immediately adjacent to a diseased tree should be considered infected. Symptomless trees separated by a primary plow line from diseased trees may be at less risk of infection. Infected trees will absorb the material more slowly due to the vascular plugging caused by the disease. If the Phoenix Kestrel MEX water solution is not absorbed within 24 hours, the tree is considered high risk and has a poor chance of survival.

See the PRODUCT INFORMATION section for details on retreatment.

LEAF DISEASES: CRABAPPLES

*Not registered for use in California

Preventive Treatment

Use 10 ml of Phoenix Kestrel MEX in up to 1 liter of water per inch trunk diameter. For trees less than 10 inches trunk diameter, use 6 ml of Phoenix Kestrel MEX per inch trunk diameter. Make applications when the trees are in full leaf and actively growing for control of the next season's leaf disease development. Disease symptoms may not be reduced the year of application. Do not use fruit-treated trees for food or feed purposes.

See the PRODUCT INFORMATION section for details on retreatment.

ANTHRACNOSE: SYCAMORE

*Not registered for use in California

Preventive Treatment

Use 10 ml of Phoenix Kestrel MEX in up to 1 liter of water per inch DBH. For trees less than 1¢ inches DBH, use 6 ml of Phoenix Kestrel MEX per inch DBH. Make applications when the trees are in full leaf and actively growing for control of the next season's anthracnose development.

See the PRODUCT INFORMATION section for details on retreatment.

DUTCH ELM DISEASE IN ELMS

*Not registered for use in California

Preventive and Therapeutic Treatment

Use 6-10 ml of Phoenix Kestrel MEX in up to 1 liter of water per inch DBH. For very high disease pressure, 20 ml of Phoenix Kestrel MEX per inch DBH may be used.

Notes:

- (1) Accurate diagnosis of Dutch elm disease is important since Phoenix Kestrel MEX only provides control of Dutch elm disease in elms.
- (2) Phoenix Kestrel MEX will be most effective when used in conjunction with other cultural practices recommended for management of Dutch
- elm disease (removal of dead elm trees, pruning of diseased tree limbs and branches, control of bark beetles, etc.)
- (3) Preventive applications can be made at 6 to 10 ml/inch DBH. The 6 ml rate should provide 24 months control and the 10 ml rate should provide 36 months control.
- (4) Therapeutic treatment in trees showing disease symptoms should be made at 10-20 ml/inch DBH. Retreatment may be needed every 12 to 36 months. Trees in advanced stages of disease development may not respond to treatment. For further information on the proper diagnosis and control of Dutch elm disease, consult your local extension agent.

See the PRODUCT INFORMATION section for details on retreatment.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in tightly closed original container in a cool, dry place away from heat and open flame in such a manner to prevent cross contamination with fertilizer, food, feed and other pesticides. Store out of reach of children preferably in a locked storage area.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to firm. Container the flow begins to firm to the flow begins to firm to the flow begins to firm to the flow begins to firm a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Container. 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 rinsate collection system. Repeat this rinsing procedure two more times.

IMPORTANT INFORMATION

READ BEFORE USING PRODUCT CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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 reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, 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. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and 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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