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2935-458

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

BEST AVAILABLE COPY

Ms. Joann Pratt
Wilbur-Ellis Company
191 W. Shaw Avenue, Suite 107
Fresno, CA 93704

Dear Ms. Pratt:

Subject: Apron TL Seed Treatment Fungicide
EPA Registration Number 2935-458
Your Submission Dated June 26, 1992

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. In the ingredient statement, correct the spelling of Metalaxyl. Also make correction in substatement indicating lbs/gal.

b. Under Environmental Hazards, add " Do not contaminate water when disposing of equipment wash waters."

c. Delete " Do not apply when weather conditions favor drift from treated areas."

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

Susan T. Lewis

Susan T. Lewis
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

CONCURRENCES

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

APRON TL

SEED TREATMENT FUNGICIDE

A seed treatment chemical for control of systemic downy mildew, seed rot and damping-off diseases of certain crops.

FOR USE BY COMMERCIAL SEED TREATERS

ACTIVE INGREDIENT:

METALAZYL:N-(2,6-DIMETHYLPHENYL)-N-	
(methoxyacetyl) alanine methyl ester	
	11.5%
INERT INGREDIENTS	88.5%
TOTAL	100.0%

Contains 1.0 pound Metalazyl per gallon.

APRON: Trademark of CIBA-GEIGY for Metalaxyl

EPA Reg. No. 2935-458

EPA Est. No. 2935-CA-1

KEEP OUT OF THE REACH OF CHILDREN

CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS:

In Case Emergency,
Call Chemtrec: (800)424-9300

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

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

STATEMENT OF PRACTICAL TREATMENT

If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by gently touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

OCT 20 1992

Under the Fungicide, Insecticide, and Plant Growth Regulator Act, as amended, this product is registered under EPA Reg. No. 2935-458

IF ON SKIN OR IN EYES, immediately flush with plenty of water. Get medical attention if irritation persists.

IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

ENVIRONMENTAL HAZARDS

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

IMPORTANT: READ THE ENTIRE DIRECTIONS FOR USE AND THE CONDITIONS OF SALE AND WARRANTY BEFORE USING THIS PRODUCT.

FAILURE TO FOLLOW DIRECTIONS ON THIS LABEL MAY RESULT IN CROP INJURY OR POOR DISEASE CONTROL.

NOTE: Wilbur-Ellis APRON TL is a systemic fungicide having a specific mode of action. Wilbur-Ellis APRON TL could be subject to development of resistant strains of fungi. Development of resistance cannot be predicted, therefore, Wilbur-Ellis cannot assume liability for crop damage resulting from resistant strains of fungi. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible Wilbur-Ellis APRON TL resistant strains of fungi which may occur.

Wilbur-Ellis APRON TL may be applied as a water-based slurry with other registered seed treatment insecticides and fungicides through standard slurry or mist-type commercial seed treatment equipment.

Do not apply this product through any type of irrigation system. Wilbur-Ellis APRON TL is a systemic fungicide seed dressing specifically for control of Pythium and Phytophthora spp.

NOTE: Federal Law requires that bags containing treated seed shall be labeled with the following information: "This seed has been treated with Wilbur-Ellis APRON TL fungicide. Do not use for feed, food, or oil purposes. Store away from feeds and foodstuffs." Use with an EPA-approved dye that imparts an unnatural color to the seed.

DIRECTIONS FOR USE

SEED TREATMENT - DOMESTIC USE

COTTON: For Pythium seed rot and damping-off, apply Wilbur-Ellis APRON TL as a seed treatment to machine-delinted or acid-delinted cottonseed at the rate of 2.0 - 4.0 fl. oz. per 100 pounds of seed.

FORAGE GRASSES: (All except scarified bermuda): Grasses grown for hay grazing for silage, corn (fodder or silage), and small grain grown for hay grazing or silage.

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For Pythium damping-off control, apply Wilbur-Ellis APRON TL as a seed treatment at the rate of 2.0 - 4.0 fl. oz. per 100 pounds of seed.

FORAGE LEGUMES: Alfalfa, clover lespadeza, beans (for forage), soybeans (for forage), soybean hay, peas (for forage), pea vine hay, cowpeas (for forage), soybean hay, trefoil, vetch and velvet bean (for forage).

For Pythium damping-off and early season Phytophthora control apply Wilbur-Ellis APRON TL as a seed treatment at the rate of 4.0 fl. oz. per 100 pounds of seed.

For suppression of early season downy mildew in alfalfa and soybeans: Apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 4.0 fl. oz. per 100 pounds of seed.

GARDEN BEETS: For control of Pythium damping-off, apply Wilbur-Ellis APRON TL as a seed treatment at the rate of 4.0 fl. oz. per 100 pounds of seed.

GRAIN CROPS: Wheat, barley, rye, oats, millet, rice, corn (field corn, sweet corn, and popcorn), buckwheat and triticale.

For Pythium damping-off control, apply Wilbur-Ellis Apron TL as a seed treatment at the rate 2.0 - 4.0 fl. oz. per 100 pounds of seed.

For control of systemic downy mildew of sweet corn, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 8.0 fl. oz. per 100 pounds of seed.

TURF GRASSES (All except scarified bermuda): For Pythium damping-off control on golf courses, home lawns, reclamation and erosion control projects, apply Wilbur-Ellis APRON TL as a seed treatment at the rate of 4.0 - 8.0 fl. oz. per 100 pounds of seed.

SEED AND POD VEGETABLES: Black-eyed peas, cowpeas, dill, edible soybeans, field beans, chick peas, (garbanzo beans), kidney beans, lima beans, navy beans, peas, pole beans, snap beans, string beans, wax beans, lentils and lupines.

For Pythium damping-off and early season Phytophthora control, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 4.0 fl. oz per 100 lbs. of seed.

For control of Pythium damping-off and systemic downy mildew of peas, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 8.67 fl. oz. per 100 pounds of seed.

SORGHUM: For control of Pythium damping off on all sorghum cultivars, use 4.0 fl. oz per 100 pounds of seed applied as a seed treatment.

For control of systemic downy mildew, apply 4.0 fl. oz. of Wilbur-Ellis Apron TL per 100 pounds of seed on cultivars which possess sorghum downy mildew resistance. To those cultivars which do not possess resistance to a particular race of sorghum downy mildew in heavily infected areas with recent severe history, apply 8.0 fl. oz. of Wilbur-Ellis Apron TL per 100 pounds of seed as a seed treatment. Seed treated with the 8.0 fl. oz. rate should be planted and not carried over to the following year.

Only high quality sorghum seed (90% germ and above) should be treated with Wilbur-Ellis Apron TL.

SUGAR BEETS: For control of Pythium damping-off, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 4 fl. oz. per 100 pounds of seed.

SOYBEANS: For Pythium damping-off and early season Phytophthora control, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 2.0-4.0 fl. oz. per 100 pounds of seed.

SUNFLOWER: For control of systemic downy mildew, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 8.0 fl. oz. per 100 pounds of seed.

SEED TREATMENT - EXPORT USE

(For control only, not for domestic sale or use).

SORGHUM: For control of Pythium damping-off and systemic downy mildew, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 8.0-28.0 fl. oz. per 100 pounds of seed.

SUNFLOWER: For control of systemic downy mildew, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 16.0-28.0 fl. oz. per 100 pounds of seed.

CORN: For control of Pythium damping-off or systemic downy mildew of corn, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 8.0 - 28.0 fl. oz. per 100 pounds of seed.

MILLET: For control of Pythium damping-off and systemic downy mildew of millet, apply Wilbur-Ellis Apron TL as a seed treatment at the rate of 8.0-28.0 fl. oz. per 100 pounds of seed.

STORAGE AND DISPOSAL

1. **PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

2. **STORAGE:** Do not use or store near heat or open flame.

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3. **PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or Local authorities.

4. **CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by incinerating, if allowed by State and local authorities.

5. **GENERAL:** Consult Federal, State, or local disposal authorities for approved alternative procedures such as limited open burning.

NOTICE: The statements made on this label are believed to be true and accurate, but because of conditions of use which are beyond our control, WILBUR-ELLIS COMPANY does not make, nor does it authorize any agent or representative to make, any warranty, guaranty or representation, expressed or implied, concerning this material or the use thereof, except in conformity with the statements on the label. Neither WILBUR-ELLIS COMPANY nor the seller shall be held responsible in any manner for any personal injury or property damage or loss resulting to the buyer or to the other person from handling, storage or use of this material, not in accordance with directions. The buyer assumes all risk and liability resulting from improper handling, storage or use and accepts and uses this material on these conditions.

Distributed By:

WILBUR-ELLIS COMPANY

P.O. BOX 16458

FRESNO, CA

Apron[®]

25W

Fungicide

A seed treatment chemical for control of systemic downy mildew, seed rot and damping-off diseases of certain crops

For use only by commercial seed treaters

Four Pounds
Net Weight

Active Ingredient:
Metalaxyl: *N*-(2,6-dimethylphenyl)-*N*-(methoxyacetyl) alanine methyl ester 25.0%

Inert Ingredients: 75.0%
Total: 100.0%

Keep Out of Reach of Children.

Caution

See additional precautionary statements on panel at left.

EPA Reg. No. 100-639

See directions for use on panel at right.

CIBA-GEIGY

ACCEPTED
with COMMENTS
in EPA 100-639

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Under
Patent
No. 2,825,454

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. **CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

General Information

Apron is a systemic fungicide seed dressing specifically for control of systemic downy mildews and diseases caused by soilborne *Pythium* and *Phytophthora* spp. For control of other soilborne diseases, such as *Rhizoctonia* spp., Apron 25W should be applied in combination with other registered seed dressing fungicides.

Note: Apron is a systemic fungicide having a specific mode of action. Apron could be subject to development of resistant strains of fungi. Development of resistance cannot be predicted. Therefore, CIBA-GEIGY cannot assume liability for crop damage resulting from resistant strains of fungi. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible Apron resistant strains of fungi which may occur.

Apron 25W may be applied as a water-based slurry with other registered seed treatment insecticides and fungicides through standard slurry- or mist-type commercial seed treatment equipment.

DIRECTIONS FOR USE

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

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

Seed Treatment-Domestic Use

Cotton	For <i>Pythium</i> seed rot and damping-off: Apply Apron 25W as a seed treatment to machine-delinted or acid-delinted cottonseed at the rate of 1-2 ounces per 100 lbs. of seed.
Forage Grasses	Grasses grown for hay grazing or silage, corn (fodder or silage), and small grain grown for hay grazing or silage. For <i>Pythium</i> damping-off control: Apply Apron 25W as a seed treatment at the rate of 1-2 ounces per 100 lbs. of seed.
Forage Legumes	Alfalfa, clover, lespedeza, beans (for forage), soybeans (for forage), soybean hay, peas (for forage), pea vine hay, cowpeas (for forage), cowpea hay, trefoil, vetch and velvet beans (for forage). For <i>Pythium</i> damping-off and early season <i>Phytophthora</i> control: Apply Apron 25W as a seed treatment at the rate of 2 ounces per 100 lbs. of seed. For suppression of early season downy mildew in alfalfa and soybeans: Apply Apron 25W as a seed treatment at the rate of 2 ounces per 100 lbs. of seed.
Garden Beets	For control of <i>Pythium</i> damping-off: Apply Apron 25W as a seed treatment at the rate of 2 ounces per 100 lbs. of seed.
Grain Crops	Wheat, barley, rye, oats, millet, rice, corn (field corn, sweet corn, and popcorn), buckwheat, and triticale. For <i>Pythium</i> damping-off control: Apply Apron 25W as a seed treatment at the rate of 1-2 ounces per 100 lbs. of seed. For control of systemic downy mildew of sweet corn: Apply Apron 25W as a seed treatment at the rate of 4 ounces per 100 lbs. of seed.
Turfgrasses (All)	For <i>Pythium</i> damping-off control on golf courses, home lawns, reclamation and erosion control projects: Apply Apron 25W as a seed treatment at the rate of 2-4 ounces per 100 lbs. of seed.
Seed and Pod Vegetables	Black-eyed peas, cowpeas, dill, edible soybeans, field beans, chick peas (garbanzo beans), field peas, garden peas, green beans, kidney beans, lima beans, navy beans, okra, peas, pole beans, snap beans, string beans, wax beans, lentils, and lupines. For <i>Pythium</i> damping-off and early season <i>Phytophthora</i> control: Apply Apron 25W as a seed treatment at the rate of 2 ounces per 100 lbs. of seed. For control of <i>Pythium</i> damping-off and systemic downy mildew of peas: Apply Apron 25W as a seed treatment at the rate of 5 ounces per 100 lbs. of seed.

Sorghum	<p>For control of Pythium damping-off on all sorghum cultivars, use 2 ounces of Apron 25W per 100 lbs. of seed applied as a seed treatment.</p> <p>For control of systemic downy mildew, apply 2 ounces of Apron 25W per 100 lbs. of seed on cultivars which possess sorghum downy mildew resistance. To those cultivars which do not possess resistance to a particular race of sorghum downy mildew in heavily infected areas with recent severe history, apply 4 ounces of Apron 25W per 100 lbs. of seed as a seed treatment. Seed treated with the 4 ounce rate should be planted and not carried over to the following year.</p> <p>Only high quality sorghum seed (90% germ and above) should be treated with Apron 25W.</p>
Soybeans	<p>For Pythium damping-off and early season Phytophthora control: Apply Apron 25W as a seed treatment at the rate of 1-2 ounces per 100 lbs. of seed.</p>
Sugar Beets	<p>For control of Pythium damping-off: Apply Apron 25W as a seed treatment at the rate of 2 ounces per 100 lbs. of seed.</p>
Sunflowers	<p>For control of systemic downy mildew: Apply Apron 25W as a seed treatment at the rate of 4 ounces per 100 lbs. of seed.</p>

Seed Treatment—Export Use

FOR TREATMENT OF THE FOLLOWING SEED FOR EXPORT ONLY TO COUNTRIES REQUIRING TREATMENT WITH METALAXYL BEFORE IMPORTATION.

Sorghum	<p>For control of Pythium damping-off and systemic downy mildew of sorghum: Apply Apron 25W as a seed treatment at the rate of 4-14 ounces per 100 lbs. of seed.</p>
Sunflower	<p>For control of systemic downy mildew: Apply Apron 25W as a seed treatment at the rate of 8-14 ounces per 100 lbs. of seed.</p>
Corn	<p>For control of Pythium damping-off and systemic downy mildew of corn: Apply Apron 25W as a seed treatment at the rate of 4-14 ounces per 100 lbs. of seed.</p>
Millet	<p>For control of Pythium damping-off and systemic downy mildew of millet: Apply Apron 25W as a seed treatment at the rate of 4-14 ounces per 100 lbs. of seed.</p>

Seed treated in accordance with the export use pattern must be labeled as follows: **FOR EXPORT ONLY — NOT FOR DOMESTIC SALE OR USE.**

Note: Federal law requires that bags containing treated seeds shall be labeled with the following information: "This seed has been treated with metalaxyl fungicide. Do not use for feed, food or oil purposes. Store away from feeds and foodstuffs." Use with an EPA-approved dye that imparts an unnatural color to the seed.

Storage and Disposal

Pesticide Storage and Disposal

Store in a dry place. Do not contaminate water, food or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Wastes resulting from the use of this product are acutely toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

Container Disposal

Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call (919) 292-7100 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, inhaled, or absorbed through the skin. Causes eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Do not store near food or feed.

Practical Treatment: In case of contact, flush eyes or skin with plenty of water. Get medical attention if irritation persists. If swallowed, give large quantities of water to drink and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately. If inhaled, move to fresh air; if not breathing, give artificial respiration and get medical attention.

Environmental Hazards

Do not apply directly to water. Apply only as specified on this label. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

Apron® trademark of CIBA-GEIGY for metalaxyl

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Agricultural Division
 CIBA-GEIGY Corporation
 Greensboro, North Carolina 27419
 CGA 66L7F 087