

PM 21

100-797

3/22/96

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Registration Number: 100-797
Date of Issuance: MAR 22 1996

Term of Issuance:
Time-Limited

Name of Pesticide Product:
Mefenoxam 45W

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):
Ciba-Geigy Corp.
P.O. Box 18300
Greensboro, NC 27419-8300

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

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

This product is registered in accordance with section 3(c)(5) of FIFRA subject to the following terms:

1. This registration shall expire on March 5, 1997 without opportunity for hearing.
2. EPA may, by order and without opportunity for hearing, cancel this registration prior to March 5, 1997 if the Agency determines, based upon comments submitted pursuant to section 3(c)(4) of FIFRA, or upon any other information that this product no longer meets the requirements of section 3(c)(5).
3. You must submit to the Agency a written request to voluntarily cancel Metalaxyl Technical and its end use products within 10 business days from the date of this registration.
4. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

(cont'd on page 2)

Signature of Approving Official:
Carrie B. Webb

Date:
3/22/96

5. Any outstanding data requirements cited in the Metalaxyl Reregistration Eligibility Document (RED) also apply to Mefenoxam. These studies may be conducted on either Metalaxyl or Mefenoxam.

6. Make the following label changes before you release the product for shipment:

a. Revise the EPA Registration Number to read, "EPA Reg. No. 100-797".

b. On page 3, under "Note" change product name to Mefenoxam 45W".

7. Submit five copies of your final printed label.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

3/14

Front Panel - 1 lb.
Booklet - 1 lb.
Bag - 4 lb.

ACCEPTED
with **COMMENTS**
In EPA Letter Dated
MAR 22 1996

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-797

Mefenoxam 45W

Accu-Pak®

FUNGICIDE

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

One Pound
Net Weight

Four Pounds
Net Weight

Active Ingredient:

Mefenoxam: (R)-2-[(2,6-dimethylphenyl)-methoxyacetyl-amino]-propionic acid methyl ester	43.6%
Related Compounds	1.4%
<u>Inert Ingredients:</u>	<u>55.0%</u>
Total:	100.0%

Mefenoxam 45W is a wettable powder packaged in a water-soluble bag.

EPA Reg. No. 100-

EPA Est.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements on panel at left and directions for use on panel at right. (For the 4 lb. bag)

See additional precautionary statements and directions for use inside booklet. (For the 1 lb.)

This outer protective container contains Mefenoxam 45W in an inner water-soluble bag. Entire inner bag and contents dissolve in water. After opening outer container, immediately drop entire unopened inner bag into the partially filled sprayer or mix tank. Do not handle the soluble bag or expose it to moisture, since this may cause rupturing.

[QUARK\MEFENOXAM\MEFNX45W] - 3/5/96

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. If terms are not acceptable, return the unopened product container at once.

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

Mefenoxam 45W is a systemic fungicide seed dressing specifically for control of systemic downy mildews and diseases caused by soil-borne *Pythium* and *Phytophthora* spp. When a rate range is specified, use higher rates of Mefenoxam 45W when the disease pressure is expected to be high.

For control of other soil-borne diseases, such as *Rhizoctonia* spp., Mefenoxam 45W should be applied in combination with other registered seed dressing fungicides.

Note: Apron Gold 45W is a systemic fungicide having a specific mode of action. Apron Gold 45W could be subject to development of insensitive strains of fungi. Development of insensitivity cannot be predicted. Therefore, Ciba-Geigy cannot assume liability for crop damage resulting from insensitive strains of fungi. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible Apron Gold 45W insensitive strains of fungi which may occur.

Mefenoxam 45W 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.

Mixing Instructions

Prepare no more mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. **Vigorous agitation is necessary to dissolve the bag and disperse the product. Maintain maximum agitation throughout the spraying operation.** Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use.

Precautions: (1) Water soluble bags of Mefenoxam 45W must be completely dissolved and dispersed in plain water before any other tank mix partner is added to the spray solution. (2) The maximum recommended concentration of Mefenoxam 45W in slurries is 7 oz. of Mefenoxam 45W in 10 oz. of water per 100 lbs. of seed.

Mefenoxam 45W Alone: Add 1/4 of the required amount of plain water to the spray or mixing tank. With the agitator running, drop the required number of **unopened** soluble bags of Mefenoxam 45W into the tank all at once. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the bags have dissolved and the material has completely dispersed into the mix water. Maintain agita-

tion until all of the mixture has been applied.

Mefenoxam 45W + Tank Mixtures: Add 1/4 of the required amount of plain water to the spray or mixing tank. With the agitator running, drop the required number of **unopened** soluble bags of Mefenoxam 45W, and any other products packaged in water soluble bags, into the tank all at once. After the water soluble bags have dissolved and the products have dispersed uniformly into the mix water, continue to fill the tank with water. Then add the desired amount of other products recommended for tank mixture and allow them to become completely dispersed. Continue agitation to maintain a uniform suspension until all of the spray solution has been applied.

If using Mefenoxam 45W in a tank mixture with other seed treatment chemicals, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product which prohibits such mixing.

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.

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 48 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Waterproof gloves
- Shoes plus socks

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

- Carrots** - For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed.
- Cotton** - For Pythium seed rot and damping-off control: Apply Mefenoxam 45W as a seed treatment to machine-delinted or acid-delinted cottonseed at the rate of 0.55-1.1 oz. 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 Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at the rate of 0.55-1.1 oz. 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 Pythium damping-off and early season Phytophthora control: Apply Mefenoxam 45W as a seed treatment at the rate of 1.1 oz. per 100 lbs. of seed.
- For suppression of early season downy mildew in alfalfa and soybeans: Apply Mefenoxam 45W as a seed treatment at the rate of 1.1 oz. per 100 lbs. of seed.
- Garden/Table Beets** - For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at the rate of 1.1 oz. per 100 lbs. of seed.

Cereal Grains

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

For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at the rate of 0.55-1.1 oz. per 100 lbs. of seed.

For Pythium seed rot and damping-off control in field corn when applied in combination with captan products at labeled rates: Apply Mefenoxam 45W as a seed treatment at 0.077 oz. per 100 lbs. of seed.

For systemic downy mildew control of sweet corn: Apply Mefenoxam 45W as a seed treatment at the rate of 2.2 oz. per 100 lbs. of seed.

For Pythium seed rot and damping-off control in rice when applied in combination with Vitavax® 200, 42-S Thiram, or RTU® Vitavax®-Thiram at labeled rates: Apply Mefenoxam 45W as a seed treatment at 0.077 oz. per 100 lbs. of seed.

Note: If using Mefenoxam 45W treated rice seed, do not use Mefenoxam for control of Pythium in water seeded rice.

Legume Vegetables and Okra

- Black-eyed peas, cowpeas, edible soybeans, 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 Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed.

For early season Phytophthora control: Apply Mefenoxam 45W as a seed treatment at 1.1 oz. per 100 lbs. of seed.

For Pythium damping-off and systemic downy mildew control of peas: Apply Mefenoxam 45W as a seed treatment at the rate of 2.78

oz. per 100 lbs. of seed.

Peanuts

- For Pythium seed rot and damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed.

Sorghum

- For Pythium damping-off control on all sorghum cultivars: Use 1.1 oz. of Mefenoxam 45W per 100 lbs. of seed applied as a seed treatment.

For systemic downy mildew control: Apply 1.1 oz. of Mefenoxam 45W 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 grown in areas with recent history of severe disease, apply 2.2 oz. of Mefenoxam 45W per 100 lbs. of seed as a seed treatment.

Note: Seed treated with the 2.2 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 Mefenoxam 45W.

Sugar Beets

- For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at the rate of 1.1 oz. per 100 lbs. of seed.

Soybeans

- For Pythium damping-off and early season Phytophthora control: Apply Mefenoxam 45W as a seed treatment at the rate of 0.55-1.1 oz. per 100 lbs. of seed.

Sunflower

- For systemic downy mildew control: Apply Mefenoxam 45W as a seed treatment at the rate of 2.2 oz. per 100 lbs. of seed.

Turfgrasses (All)

- For Pythium damping-off control on golf courses, home lawns, reclamation, and erosion control projects: Apply Mefenoxam 45W as a seed treatment at the rate of 1.1-2.2 oz. per 100 lbs. of seed.

Note: For long-term control of Pythium in

areas when using Mefenoxam-treated seed, make an application of Mefenoxam 7-10 days after seeding.

Seed Treatment-Export Use

FOR TREATMENT OF THE FOLLOWING SEED FOR EXPORT ONLY TO COUNTRIES REQUIRING TREATMENT WITH MEFENOXAM BEFORE IMPORTATION. User should verify actual registered rate in country of destination and/or use.

- Brassica (Cole)
Leafy Vegetables** - For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed.
- Corn** - For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed. For systemic downy mildew control: Apply Mefenoxam 45W as a seed treatment at 3.67 oz. per 100 lbs. of seed.
- Cucurbits** - For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed.
- Fruiting Vegetables
(e.g. tomatoes, peppers
eggplant)** - For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed.
- Leafy Vegetables** - For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed.
- Millet** - For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed. For systemic downy mildew control: Apply Mefenoxam 45W as a seed treatment at 4.67 oz. per 100 lbs. of seed.
- Onions** - For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed.

- Peas**
- For Pythium damping-off and early season Phytophthora control: Apply Mefenoxam 45W as a seed treatment at the rate of 1.1 oz. per 100 lbs. of seed. For downy mildew control, apply Mefenoxam 45W as a seed treatment at 2.44 oz. per 100 lbs. of seed.

Root and Tuber Vegetables

- For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed.

Note: Do not apply Mefenoxam 45W to potatoes.

Sorghum

- For Pythium damping-off control: Apply Mefenoxam 45W as a seed treatment at 0.55-1.1 oz. per 100 lbs. of seed. For systemic downy mildew control: Apply Mefenoxam 45W as a seed treatment at 3.67 oz. per 100 lbs. of seed.

Sunflower

- For systemic downy mildew control: Apply Mefenoxam 45W as a seed treatment at 6.22-7.44 oz. per 100 lbs. of seed.

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 mefenoxam 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

Storage - Store in a cool, dry place. Do not store this product under wet conditions. Handle outer packaging carefully to avoid breakage of inner soluble bag.

Pesticide Disposal

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 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 dis-

posed 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

Do not reuse outer container. Dispose of empty outer container 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 1-800-888-8372, day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed or absorbed through skin. Avoid contact with skin.

Statement of Practical Treatment

If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

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

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

Note to Physician: If ingested, induce emesis or lavage stomach. Treat symptomatically.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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 Control Statements

When handlers use closed systems 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.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Apply only as specified on this label. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

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RTU® trademark of Gustafson, Inc.

Vitavax® trademark of Uniroyal Chemical Company, Inc.

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Ciba Crop Protection
Seed Treatment Products
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