

PM 21

100-792

3/11/96

P 11/14



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

EPA Number: 100-792	Date of Issuance: <b>MAR 11 1996</b>
Term of Issuance: Time-Limited	
Name of Pesticide Product: Mefenoxam PC	

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:  
*C. B. Beck*

Date:  
**MAR 11 1996**

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. Revise the EPA Registration Number to read, "EPA Reg. No. 100-792".

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

**Mefenoxam PC**

**Granular Fungicide**

For the control of diseases of  
beans, cotton, and peanuts  
caused by Pythium and Rhizoctonia

50 Pounds  
Net Weight

**Active Ingredients:**

Pentachloronitrobenzene (PCNB).....	10.00%
Mefenoxam: (R)-2-[(2,6-dimethylphenyl)- methoxyacetylamino]-propionic acid methyl ester .....	0.48%
Related Compounds .....	0.02%
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Inert Ingredients:	89.50%
Total:	100.00%

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

**3-11-96**

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

**100-798**

Mefenoxam PC is a granular fungicide

**KEEP OUT OF REACH OF CHILDREN**

**WARNING/AVISO**

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.)

See additional precautionary statements and directions for use on back of bag.

EPA Est. 5905-GA-1

EPA Reg. No. 100-

Product ID.

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Ciba-Geigy

## DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**IMPORTANT:** Read the entire **Directions for Use** and **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

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### Conditions of Sale and Warranty

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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.

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## DIRECTIONS FOR USE

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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 product 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
- Protective eyewear

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

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### **General Information**

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Mefenoxam PC is a granular fungicide containing 0.5% mefenoxam, a systemic fungicide, and 10% PCNB (pentachloronitrobenzene). It provides control of damping-off and seed and seedling rot diseases in beans, cotton, and peanuts caused by *Pythium* and *Rhizoctonia*. Mefenoxam PC will also provide suppression of pod rot in peanuts caused by *Sclerotium rolfsii*.

**Note:** Mefenoxam is a systemic fungicide having a specific mode of action. Mefenoxam 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 or ways to control any possible mefenoxam insensitive strains of fungi which may occur.

### **Applicator Settings**

It is important that the user calibrate each individual granular applicator before its use. The settings in the chart under the **Cotton** section below **SHOULD ONLY BE USED AS A STARTING POINT**. Even after calibration, it is best to check the actual application rate under your operating conditions. Application rates can vary due to changing moisture conditions, equipment wear, normal variation in product bulk density and particle size distribution.

**Calibration:** To calibrate a granular applicator, follow the procedure as outlined below:

1. Fill the hopper with Mefenoxam PC.
2. Attach a plastic bag to the spout opening.
3. Refer to the chart in the **Cotton** section of this label and adjust the setting on the applicator to match the desired rate per acre.
4. Measure off 1,000 linear feet and drive at the speed selected.
5. Weigh or measure the volume of each bag, change settings as needed to obtain the desired rate and repeat steps 2-5 until the setting delivers the correct number of ounces per 1,000 ft.

6. Repeat steps 1-5 for each applicator box.

**Conversions:**

1. Time to cover 1,000 feet at:

2 mph = 5 mins. 40 secs.

3 mph = 3 mins. 54 secs.

4 mph = 2 mins. 50 secs.

5 mph = 2 mins. 16 secs.

6 mph = 1 min. 57 secs.

2. Ounces (wt.) of granules to **approximate** ounces (volume):

6 oz. wt. = 8 fl. oz. (1 level cup)

When calibrating granular applicators, follow the recommendations below:

1. To reduce granule flow variability, adjust orifice openings by moving the controls in one direction only, such as from the closed position to open.
2. Granule flow through an orifice is not always proportional to ground speed, so make calibration checks at the same speed at which you plant and maintain that ground speed as constantly as possible when planting.
3. Granular pesticide products vary considerably in size, density, and particle shape, so recalibrate applicators whenever you change brands and/or formulations. The same brand can even change from year to year.
4. Changing humidity and temperature during the day can change the flow rate of granules through the applicator's orifice. Recalibrate when conditions change and periodically readjust orifice settings to compensate.
5. Know the recommended rate. For band applications, the area actually is the area covered by the band, not total cropland area planted. Some row-crop recommendations are based on treating in-the-row and these rates generally are specified as amounts (ounces) of granules per certain row length (often, 1,000 feet).
6. Calibrate frequently. There are several acceptable calibration methods. Learn one. Do the arithmetic first, then complete the material collection phase under field conditions.

Calculate the amount of Mefenoxam PC needed for band treatment as follows:

$$\frac{\text{Band Width in Inches}}{\text{Row Spacing in Inches}} \times \text{Broadcast Rate per Acre} = \text{Band Rate per Acre}$$

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**Beans**

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Mefenoxam PC will control damping-off and seed and seedling rots of dry and green beans (bush and pole types) caused by *Pythium* and *Rhizoctonia* when used at planting.

Apply 3/4 lb. (12 oz.) of Mefenoxam PC/1,000 linear ft. of row at the time of planting. Adjust the application equipment so the granules are mixed with the soil surrounding the seed.

**Note:** To avoid possible illegal residues, do not allow the feeding of vines or grazing of foliage by livestock.

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**Cotton**

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Mefenoxam PC will control damping-off, seed and seedling rot diseases caused by *Pythium* spp. and *Rhizoctonia solani*.

For best results, use high quality seed and plant into a properly prepared seedbed.

Apply 7-10 lbs. of Mefenoxam PC/13,000 linear ft. of row (8.6-12.3 oz./1,000 linear ft.) at the time of planting. Adjust the application equipment so the granules are mixed with the soil surrounding the seed. See Chart 1 below for suggested applicator settings and the **General Information** section of this label for calibration instructions.

**Note:** To avoid possible illegal residues, do not allow the feeding or grazing of cotton foliage by livestock.



Chart 1: Cotton - Suggested Applicator Settings												
	----- 4 MPH -----				----- 5 MPH -----				----- 6 MPH -----			
40" Rows In-Furrow Lbs./A	10	9	8	7	10	9	8	7	10	9	8	7
Eqv. Ozs./ 1,000 ft. Gandy	12.3 28	11.1 26.8	9.8 25	8.6 23.5	12.3 31	11.1 30	9.8 28	8.6 26.3	12.3 34.5	11.1 32.5	9.8 30.5	8.6 29
Allis Chalmers Int'l Harvester 1980 and Before	2.4	2.1	1.9	1.6	3	2.8	2.4	2.05	3.6	3.2	2.9	2.5
Noble 1972 and Before	19	17	15	13	23	21	19	17	27	25	22	20
Noble (Remcor) 1973-Present White 5100 Series Deutz Allis 1985-Present	14	13	12 or 11	10	17 or 16	15	14	13 or 12	19	18	16	15 or 14
John Deere Metal Box	2/12	2/10	2/8	2/5	2/18	2/15	2/12	2/9	2/22	2/19	2/16	2/13
John Deere 7000 & 7100 Max-Emerge® Meter Scale 0--10--20	28	27	24	22	31	30	28	26	33	32	31	29
John Deere 7000 & 7100 Max-Emerge® Meter Scale 0--5--15	18	17	16	15	21	20	18	17	23	22	21	19
International Harvester 1981-1985 Case IH 1985-Present	3.1	2.9	2.6	2.35	3.6	3.4	3.1	2.8	4.5	4.0	3.55	3.2

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## Peanuts

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Mefenoxam PC applied at planting will provide control of seed and seedling rots of peanuts caused by *Pythium* and *Rhizoctonia*. Applications of Mefenoxam PC during early pegging will provide control of early pod rot caused by *Pythium* and *Rhizoctonia* and will provide suppression of *Sclerotium rolfsii* during early pegging. **These treatments will not provide late season control of these diseases.**

**Seed and Seedling Rots:** Apply 12.5-25 lbs. of Mefenoxam PC/14,520 linear ft. (36 inch row) in a 4-inch band at the time of planting and mix in the covering soil. Incorporate with mechanical equipment to a depth of 2-4 inches. For double-drilled or double-row plantings, apply 12.5-25 lbs./14,520 linear ft. in a 4-inch band centered on each drill or row. Use the higher rate in fields with a history of seedling disease problems or when weather conditions are favorable for infection and disease development.

**Pod Rot:** Apply 50 lbs./14,520 linear ft. (36 inch row) at early pegging. For banded applications, adjust the equipment so the granules are distributed uniformly over the row(s) and in the pegging zone. For mid- to late-season control of pod rot, use other EPA-registered fungicides.

***Sclerotium rolfsii*:** When Mefenoxam PC is used for pod rot control, some suppression of *Sclerotium rolfsii* will be obtained. In areas where *Sclerotium rolfsii* is a problem use other fungicides that are labeled for this disease. Use other products labeled for mid- and late-season control of southern blight/white mold infections.

**Notes:** To avoid possible illegal residues, (1) Do not allow the feeding or grazing of peanut foliage or harvest residues by livestock. (2) Do not apply more than 75 lbs. Mefenoxam PC/14,520 linear ft. of row/season. (3) Do not apply within 75 days of harvest.

### Rotational Crops

These crops represent those which may be planted (rotated to) according to the interval listed following an application of Mefenoxam PC to beans, cotton, or peanuts. Do not plant any crop not registered for use with mefenoxam in soil treated with this product for a period of 12 months. Do not plant root crops in fields treated with this product within 12 months of application.

### Rotational Interval

Alfalfa	0 days
Almonds	0 days
Apples	0 days
Avocados	0 days
Asparagus	0 days
Blueberries	0 days
Broccoli	0 days
Brussels Sprouts	12 months
Cabbage	0 days
Cauliflower	0 days
Chinese broccoli (gai lan, white flowering broccoli)	0 days
Chinese cabbage (tight-heading varieties only)	0 days
Citrus	0 days
Corn	12 months
Cotton	0 days
Cucurbit Vegetables	0 days
Deciduous Fruits and Nuts*	0 days
Eggplant	0 days
Garlic	12 months
Grapes	0 days
Hops	0 days
Leafy Vegetables (excluding brassica)	0 days
Legume Vegetables (beans and peas - succulent and dried)	0 days
Papaya	0 days
Peanuts	0 days
Peppers	0 days
Pineapples	0 days
Raspberries	0 days
Root Crops	12 month
Soybeans	0 days
Spinach	0 days
Stone Fruits	0 days
Strawberries	0 days
Tobacco	0 days
Tomatoes	0 days
Walnuts	0 days
Wheat	12 months
Crops <b>Not Intended</b> for Food or Feed	0 days
All Other Crops <b>Intended</b> for Food or Feed	12 months

\*These crops and other perennial crops may be planted immediately following last application of Mefenoxam PC provided they will not bear harvestable fruit within 12 months.

## **Storage and Disposal**

### **Pesticide**

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 toxic. Improper disposal of unused pesticide is a violation of federal law. Pesticide 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, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup 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**

#### **WARNING/AVISO**

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin.

### **Statement of Practical Treatment**

**If in eyes:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**If on skin:** Wash with plenty of soap and water. Get medical attention.

**If swallowed:** Call a physician or Poison Control Center. Drink promptly a large quantity of milk, egg white, gelatin solution or, if these are not available, large quantities of water. Avoid alcohol.

### **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
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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 or enclosed cabs 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**

This product is toxic to fish and aquatic organisms. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Cover or incorporate all granules. Do not contaminate water when disposing of equipment wash waters.

Max-Emerge® trademark of John Deere Company

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Ciba Crop Protection  
Ciba-Geigy Corporation  
Greensboro, NC 27419

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