

PM 14 204-469

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

<b>(A)</b>  <b>EPA</b>	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> <b>Amendment</b> <input type="checkbox"/> Other	OPP Identifier Number  <span style="font-size: 1.2em;">196679</span>
	<b>Application for Pesticide:</b>		

**Section I**

1. Company/Product Number <p style="text-align: center; font-size: 1.1em;">264-469</p>	2. EPA Product Manager <p style="text-align: center;">Robert Forrest</p>	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) MOCAP 20% Granular Nematicide Insecticide	PM# <p style="text-align: center;">14</p>	
5. Name and Address of Applicant (Include ZIP Code) Rhone-Poulenc Ag Company 2 T. W. Alexander Drive RTP, NC 27709  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	

**Section II**

<input type="checkbox"/> Amendment - Explain below  <input type="checkbox"/> Resubmission in response to Agency letter dated _____  <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____  <input type="checkbox"/> "Me Too" Application.  <input type="checkbox"/> Other - explain below.
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**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification per PR Notice 83-6. This is to certify that this notification meets every requirement of PR Notice 88-6.

Notification of compliance with PR Notice 93-3, LABELING STATEMENT PROHIBITING APPLICATION TO WATER.

**Section III**

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted.		If "Yes," Unit Package wgt.    No. per container	If "Yes," Package wgt.    No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Other ( _____ ) <input type="checkbox"/> Stenciled					

**Section IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name <p style="font-size: 1.1em;">Patricia L. Kwiatkowski</p>	Title <p style="font-size: 1.1em;">Associate Registration Manager</p>	Telephone No. (Include Area Code) <p style="font-size: 1.1em;">919-549-2631</p>
Certification I certify that the statements I have made on this form and all attachments hereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title <p style="font-size: 1.1em;">Associate Registration Manager</p>	
4. Typed Name <p style="font-size: 1.1em;">Patricia L. Kwiatkowski</p>	5. Date <p style="font-size: 1.1em;">June 25, 1993</p>	

# RESTRICTED USE PESTICIDE

ACUTE DERMAL TOXICITY

For retail sale to and use only by Certified Applicators or persons under the direct supervision of a Certified Applicator, and only for those uses covered by the Certified Applicator's certification.

## MOCAP® 20% Granular Nematicide Insecticide

### ACTIVE INGREDIENTS:

Ethoprop: (O-Ethyl S, S-Dipropyl Phosphorodithioate).....20%

INERT INGREDIENTS.....80%

EPA Reg. No. 264-469

EPA Est. No.



**KEEP OUT OF REACH OF CHILDREN**  
**DANGER POISON**  
**PELIGRO**



**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

**TRANSLATION TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.

For **MEDICAL** And **TRANSPORTATION** Emergencies **ONLY** call 24 Hours A Day 1-800-334-7577

For **PRODUCT USE** Information Call 1-800-334-9745

### STATEMENT OF PRACTICAL TREATMENT

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

**IF INHALED:** Remove victim to fresh air and apply artificial respiration if indicated.

**IF ON SKIN:** Remove all contaminated clothing and wash skin with soap and water. Wash clothing before reuse. Discard contaminated shoes.

**IF IN EYES:** Flush with plenty of water for at least 15 minutes. Call a physician immediately.

### PRECAUTIONARY STATEMENTS

#### DANGER

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS

Poisonous if swallowed, inhaled or absorbed through skin. Rapidly absorbed through skin. Wear protective clothing. In case of contact, wash immediately with soap and water. Do not breathe fumes or dust. After use, wash hands, arms and face thoroughly with soap and warm water before eating or smoking. Wash all clothing with soap and hot water before reuse. Discard contaminated shoes. Do not contaminate feed or food.

Do not store in or around the home.

**SYMPTOMS OF POISONING:** Nausea, vomiting, abdominal cramps, diarrhea, excessive salivation, headache, dizziness, weakness, blurring or dimness of vision, excessive tearing, loss of muscular coordination, slurring of speech, twitching of muscles (especially of tongue and eyelids), mental confusion, disorientation, drowsiness, difficulty in breathing (chest tightness), runny nose.

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Give 1 or 2 glasses of water to drink and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician, Poison Control Center, or hospital emergency room.

If not breathing, give mouth to mouth artificial respiration.

**IN CASE OF SKIN CONTACT:** Immediately remove all contaminated clothing, and wash skin with soap and water. Wash clothing before reuse. Discard contaminated shoes.

**FOR EYES:** Flush with plenty of water for at least 15 minutes. Call a physician immediately in all cases of suspected poisoning.

Persons providing first aid should prevent contamination of themselves.

#### NOTE TO PHYSICIAN

This product is a cholinesterase inhibitor. Severe symptoms and signs include diarrhea, pinpoint and non-reactive pupils, respiratory difficulty, pulmonary edema, cyanosis, loss of sphincter control, convulsions, and coma. Support respiration as needed. Measures should include removal of secretions, maintenance of a patent airway, and if necessary, artificial ventilation.

If cyanosis is absent, give ATROPINE 2-4 mg intravenously (0.05 mg/kg for children). Repeat atropine at 5-10 minute intervals until atropinization occurs (dry, flushed skin, tachycardia, pupillary dilatation), and maintain for 48 hours. If cyanotic, give initial atropine intramuscularly and start measures to improve ventilation.

Start 2-PAM (PROTOPAM, Ayerst) at the same time. Give 1-2 grams PROTOPAM (20-40 mg/kg for children) in 100cc saline over 15-30 minutes. If pulmonary edema is present, give intravenously slowly as a 5% solution in water over a period of at least 5 minutes. A second dose may be given after one hour if muscle weakness persists. Additional doses may be given cautiously for persistent muscle weakness. May be given by intramuscular or subcutaneous routes if intravenous administration is not feasible.

In case of skin contact, wash patient with soap and water followed by wash with 95% ethyl alcohol. Keep patient under constant observation for 24-36 hours. Symptoms may persist for one month.

The use of theophylline, morphine, barbiturates, phenothiazines, reserpine, and succinyl choline is contraindicated.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic organisms (fish & invertebrates), and wildlife. Birds feeding in treated areas may be killed. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Cover or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Do not contaminate water when disposing of equipment washwater.

## DIRECTIONS FOR USE

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

Unprotected persons may enter treated field or area after chemical has been mixed into the soil. Granules lying on the soil surface in turn areas at row ends should be incorporated to remove possible hazard to birds and other wildlife.

Do not apply in Long Island, New York.

### INCORPORATION INFORMATION

MOCAP® 20% Granular Nematicide-Insecticide can be incorporated with a rotary tiller, rotary hoe, springtooth harrow, by double-discing or with other equipment for mixing the chemical with the soil to the depth recommended. Follow any specific incorporating directions given under the crop heading.

If moisture is applied immediately after application to carry the treatment into the soil, only shallow incorporation (1/4 to 1/2 inch) with mechanical equipment such as drag chains is required.

## STORAGE AND DISPOSAL

### STORAGE

Do not store in or around the home. Do not contaminate water, food, or feed by storage or disposal.

### PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of Federal law. If these wastes cannot be disposed of by use 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.

### CONTAINER DISPOSAL

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

1045

**NEMATODES CONTROLLED**

	FIELD CORN AND SWEET CORN			POTATO	SUGARCANE
	6-7 Inch Band 5 Lbs./20 G/A*	12-15 Inch Band 7.5-10 Lbs./20G/A*	Broadcast 30 Lbs. /20G/A		
<b>DAGGER NEMATODES</b> ( <i>Xiphinema</i> spp.) ( <i>X. americanum</i> )	C C	C C	C C		
<b>LANCE NEMATODES</b> ( <i>Hoplolaimus</i> spp.) ( <i>H. galeatus</i> )		S S	S S		
<b>LESION NEMATODES</b> ( <i>Pratylenchus</i> spp.) ( <i>P. hexincisus</i> ) ( <i>P. zea</i> ) ( <i>P. penetrans</i> )	C C C	C C C	C C C	C	C
<b>RING NEMATODES</b> ( <i>Criconeimoides</i> spp.) ( <i>C. ornatus</i> )	S S	S S	S S	C	C
<b>ROOT-KNOT NEMATODES</b> ( <i>Meloidogyne</i> spp.) ( <i>M. hapla</i> ) ( <i>M. incognita</i> ) ( <i>M. Chitwoodi</i> )		C C C	C C C	C C S	C
<b>SPIRAL NEMATODES</b> ( <i>Helicotylenchus</i> spp.) ( <i>H. pseudorobustus</i> ) ( <i>H. dihystra</i> ) ( <i>Rotylenchus</i> spp.)	C	C C C C	C C C C	C	
<b>STING NEMATODES</b> ( <i>Belonolaimus</i> spp.) ( <i>B. longicaudatus</i> )		C C	C C	C	
<b>STUBBY-ROOT NEMATODES</b> ( <i>Trichodorus</i> spp.) ( <i>T. christiei</i> )	C C	C C	C C	C	C
<b>STUNT NEMATODES</b> ( <i>Tylenchorhynchus</i> spp.) ( <i>T. martini</i> )	C	C	C	C	C

C = Control  
S = Suppression

\*Rates based on 40 inch row spacing. Rates per acre for other row spacings are shown in the section below.

**INSECTS CONTROLLED**

	FIELD CORN AND SWEET CORN		POTATO	SUGARCANE
	6-7 Inch Band 5 Lbs./20 G/A*	Cultivation Application 5 Lbs./ 20G/A*		
<b>Black Cutworm**</b> ( <i>Agrotis ipsilon</i> )	C			
<b>Sandhill Cutworm**</b> ( <i>Euxoa delersa</i> )	C			
<b>Western Corn Rootworm</b> ( <i>Diabrotica virgifera virgifera</i> )	C	C		
<b>Northern Corn Rootworm</b> ( <i>D. barberi</i> )	C	C		
<b>Southern Corn Rootworm</b> ( <i>D. undecimpunctata howardi</i> )	C	C		
<b>Corn Wireworm</b> ( <i>Melanotus communis</i> )	C		C	C
<b>Southern Potato Wireworm</b> ( <i>Conoderus falli</i> )	C			
<b>Other Wireworms</b> ( <i>M. dietrichi</i> ) ( <i>M. depressus</i> ) ( <i>M. verberans</i> ) ( <i>M. lanei</i> ) ( <i>M. opacicollis</i> ) ( <i>M. similis</i> ) ( <i>Limonius dubitans</i> ) ( <i>Limonius californicus</i> ) ( <i>Limonius canus</i> ) ( <i>Ctenicera pruinina</i> ) ( <i>Elepdes</i> spp.) ( <i>Aeolus mellilus</i> )	C C C C C C C C C S		C C C C	
<b>White Grubs</b> ( <i>Phyllophaga</i> spp.)	S			

C = Control  
S = Suppression

\*Rates based on 40 inch row spacing.

\*\*NOTE: Under heavy infestations of cutworms, enough cutworms may survive to cause some crop damages. If this occurs, it may be necessary to apply a rescue treatment with another registered pesticide to control the surviving worms.

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**FIELD CORN AND SWEET CORN**

**NOTE TO USER:** Make only one application of MOCAP® 20% Granular Nematicide-Insecticide per year.

**FOR CONTROL OF CORN ROOTWORM, CORN WIRE-WORM, CUTWORMS, GARDEN SYMPHYLAN (*Scutigerella immaculata*), NEMATODES AND SUPPRESSION OF WHITE GRUBS.**

**Row Treatment:** Use 6 ounces of MOCAP® 20% Granular Nematicide-Insecticide per 1000 feet of row. Rate per acre depends on row spacing as shown below:

Row Spacing	40"	38"	36"	30"	20"
Lbs. Per Acre	5	5.3	5.6	6.7	10

Apply the granules in a 6 to 7 inch band over the row at planting. Mix the granules with the top 1/2 inch of soil with drag chains, spring-tooth incorporators, or similar equipment.

**FOR COMMONLY USED APPLICATORS, SEE CALIBRATIONS CHART BELOW**

Suggested gauge settings for 6 ounces per 1,000 feet of row. (Do not change with row width). Be sure to calibrate your applicator under your operating conditions.

**FOR APPLICATION RATE OF 6 OUNCES/1000 FEET OF ROW**

Brand Of Applicator	SPEED IN MILES PER HOUR									
	2	3	4	5	6	7	8	9	10	
Allis Chalmers	Gauge 5 For All Speeds									
Old Gandy	11.4	14.6	16.8	18.6	20.2	21.8	23.4	25.2	26.8	
New Gandy	11.8	14.9	17.0	18.9	20.5	21.9	23.3	24.7	26.0	
International Harvester (old)	1/3.0	1/5.2	1/7.0	1/9.0	2/0.9	2/2.8	2/5.4	2/8.0	3/0.2	
International Harvester (new)	1/3.2	1/5.3	1/7.1	1/9.0	2/0.8	2/2.9	2/4.9	2/6.8	2/8.6	
John Deere (metal boxes)	1/16	1/18	1/20	1/32	2/1	2/2	2/2	2/3	2/3	
John Deere (new) (1)	7	9	11	14	16	19	21	24	26	
John Deere (newest) (2)	6	8	10	11	13	15	16	17	19	
Noble (3)	5	7	9	12	14	16	18	20	22	
Noble (new) (4)	4	5	7	9	11	13	15	16	17	

- (1) Gauge Reads 10-20-30-40
- (2) Gauge Reads 5-15-25-35-45
- (3) Round hole in bottom of hopper
- (4) Rectangular hold in bottom of hopper

**FOR CORN ROOTWORM CONTROL**

**Row Treatment:** Use the rates shown above for at-planting application. Apply at cultivation after plant emergence until layby.

On small corn, apply in a 6 to 7 inch band over the row. On taller corn, apply in bands 3 to 4 inches wide on each side of the corn, directing the granules toward the base of the plants. Cover the granules with soil by making application immediately ahead of cultivation equipment.

**FOR CUTWORM CONTROL**

**Broadcast Treatment:** Apply 15 pounds of MOCAP® 20% Granular Nematicide-Insecticide per acre from 3 days before planting to at-planting time. Mix treatment with the top 2 inches of soil right after application.

**FOR NEMATODE CONTROL**

**Row Treatment:** Apply 9 to 12 ounces of MOCAP® 20% Granular Nematicide-Insecticide per 1000 feet of row in a band 12 to 15 inches wide on the row at-planting. Mix treatment with the top 2 to 4 inches of soil right after application. Rate per acre depends on row spacing as shown below:

Row Spacing	40"	38"	36"	30"	20"
Lbs. Per Acre	7.5-10	7.8-10.5	8.1-11.1	9.8-13.3	15-20

**FOR NEMATODE CONTROL**

**Broadcast Treatment:** Apply 30 pounds of MOCAP® 20% Granular Nematicide-Insecticide per acre from 3 days before planting to at-planting time. Mix with the top 2 to 4 inches of soil right after application.

The treatments for nematode control will also control rootworms, wireworms, cutworms, garden symphylan (*Scutigerella immaculata*) and suppress white grubs.

**POTATOES**

**WIREWORM AND GARDEN SYMPHYLAN (*Scutigerella immaculata*) CONTROL**

**Row Treatment:** Apply 15 pounds of MOCAP® 20% Granular Nematicide-Insecticide per acre (36 inch row spacing, or 1.0 pound per 1000 linear feet of row in a band 12 inches wide on the row at-planting. Mix with the top 2 to 4 inches of soil.

The following broadcast treatment is recommended for fields where wireworm injury has been (or is suspected to be) especially severe (i.e., potatoes planted following sod, pasture or new ground).

## WIREWORMS AND GARDEN SYMPHYLAN (*Scutigerella immaculata*) CONTROL

**Broadcast Treatment:** Apply 20 to 30 pounds of MOCAP® 20% Granular Nematicide-Insecticide per acre. Mix with the top 2 to 4 inches of soil right after application.

**FOR CONTROL OF GARDEN SYMPHYLAN (*Scutigerella immaculata*) AND LESION, SPIRAL, STING, RING, STUNT, AND STUBBY-ROOT NEMATODES AND SUPPRESSION OF NORTHERN ROOT-KNOT AND SOUTHERN ROOT-KNOT NEMATODES**

**Row Treatment:** Apply 15 pounds of MOCAP® 20% Granular Nematicide Insecticide per acre (36 inch row spacing), or 1.0 pound per 1000 linear feet of row in a band 12 inches wide on the row at-planting. Mix with the top 2 to 4 inches of soil.

**FOR CONTROL OF GARDEN SYMPHYLAN (*Scutigerella immaculata*) AND NORTHERN ROOT-KNOT, SOUTHERN ROOT-KNOT, LESION, SPIRAL, STING, RING, STUNT, NEMATODES, AND SUPPRESSION OF COLUMBIA ROOT-KNOT NEMATODE**

**Broadcast Treatment:** Use 30 to 60 pounds of MOCAP® 20% Granular Nematicide-Insecticide per acre. Apply by ground or aerial application as close to planting as possible, but no earlier than 2 weeks before planting, or apply before potato emergence. Mix with the top 2 to 4 inches of soil right after application if applied before planting. If applied after planting, apply 1/4 to 1/2 inch of water to incorporate in soil. Uniformity of application is important for best results.

**NOTE:** For best suppression of Columbia Root-knot Nematodes, it is recommended that MOCAP® 20% Granular be applied following fall or spring application of a registered fumigant nematicide. Do not exceed a maximum of 12 lbs. active ingredient per acre per season on potatoes.

## SUGARCANE

### FOR NEMATODE AND WIREWORM CONTROL

**Furrow Treatment:** Apply 10 to 20 pounds of MOCAP® 20% Granular Nematicide-Insecticide per acre (6 foot row spacing) or 1.4 to 2.8 pounds per 1000 linear feet of row at-planting. Apply evenly in a band 12 to 15 inches wide, centered over the seed pieces in the opened furrow immediately before closing. Mix the soil with a disc hiller or other suitable equipment as the cane is covered. Use the higher rates in fields where nematode and/or wireworm infestations have been especially severe.

## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use

when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS, OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

### NOTICE TO BUYER

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside the United States.

Rhône-Poulenc Ag Company

P.O. Box 12014, 2 T.W. Alexander Drive

Research Triangle Park, North Carolina 27709

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MOCAP® 20% Granular Nematicide-Insecticide (MASTER) Approved 6/1/89.