

FRONT PANEL

RESTRICTED USE PESTICIDE

ACCEPTED  
JUN 01 1989  
Under the Fungicide, Insecticide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 264-469

.10 pt -

**Acute Dermal Toxicity**  
For retail sale to, and use 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.

1 3/8"

MOCAP® 20% Granular Nematicide-Insecticide

58 pt

26 pt -

**ACTIVE INGREDIENTS:**

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

**INERT INGREDIENTS** .....80%

EPA Reg. No. 264-469

EPA Est. No.

38 pt - **KEEP OUT OF REACH OF CHILDREN**

78 pt - **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.

**STATEMENT OF PRACTICAL TREATMENT**

**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 to an unconscious person.

**IF INHALED:** Remove 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.

FOR ADDITIONAL PRECAUTIONARY STATEMENTS: See Inside Label

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

For EMERGENCY Information ONLY Call 24 Hours A Day 1-800-334-7577

58 pt -

**Rhône-Poulenc Ag Company**  
P. O. Box 12014, 2 T. W. Alexander Drive  
Research Triangle Park, N. C. 27709

26 pt -

MOCAP is a registered trademark of Rhône-Poulenc

ARTWORK is pms 495 + black

**PRECAUTIONARY STATEMENTS** - 10 pt for all headings  
**DANGER**  
**HAZARD TO HUMANS AND DOMESTIC ANIMALS** - 8 pt for all text

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 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 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 and invertebrates), and wildlife. Birds feeding in treated areas may be killed. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). 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 wash water.

**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.

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**NEMATODES CONTROLLED**

(Field Corn And Sweet Corn)

	6-7 Inch Band 5 Lbs./20 G/A*	12-15 Inch Band 7.5-10 Lbs./20G/A*	Broadcast 30 Lbs. 20G/A	Potato	Sugarcane
<b>Dagger Nematodes</b>					
(Xiphinema spp.)	C	C	C		
(X. americanum)	C	C	C		
<b>Lance Nematodes</b>					
(Hoplolaimus spp.)		S	S		
(H. galeatus)		S	S		
<b>Lesion Nematodes</b>					
(Pratylenchus spp.)	C	C	C	C	C
((P. hexincisus)	C				
(P. zea)		C	C		
(P. penetrans)	C	C	C		
<b>Ring Nematodes</b>					
(Criconemoides spp.)	S	S	S	C	C
((C. ornatus)	S	S	S		
<b>Root-knot Nematodes</b>					
(Meloidogyne spp.)		C	C		C
(M. hapla)		C	C	C	
(M. incognita)		C	C	C	
(M. Chitwoodi)				S	
<b>Spiral Nematodes</b>					
(Helicotylenchus spp.)	C	C	C	C	
(H. pseudorobustus)		C	C		
(H. dihystra)		C	C		
(Rotylenchus spp.)		C	C		
<b>Sting Nematodes</b>					
(Belonolaimus spp.)		C	C		
(B. longicaudatus)		C	C	C	
<b>Stubby-root Nematodes</b>					
(Trichodorus spp.)	C	C	C	C	
(T. christiei)	C	C	C		C
<b>Stunt Nematodes</b>					
(Tylenchorhynchus spp.)	C	C	C	C	
(T. martini)					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.

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**INSECTS CONTROLLED**

**(Field Corn And Sweet Corn)**

	6-7 Inch Band 5 Lbs./20 G/A*	Cultivation Application 5 Lbs. 20G/A*	Potato	Sugarcane
<b>Black Cutworm**</b> ( <i>Agrotis ipsilon</i> )	C			
<b>Sandhill Cutworm**</b> ( <i>Euxoa detersa</i> )	C			
<b>Western Corn Rootworm</b> ( <i>Diabrotica virgileta 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> )	C			
( <i>M. depressus</i> )	C			
( <i>M. verberans</i> )	C			
( <i>M. lanei</i> )	C			
( <i>M. opacicollis</i> )	C			
( <i>M. similis</i> )	C			
( <i>Limonius dubitans</i> )	C			
( <i>Limonius californicus</i> )			C	
( <i>Limonius canus</i> )			C	
( <i>Ctenicera pruinina</i> )			C	
( <i>Elepdes</i> spp.)			C	
( <i>Aeolus mellilus</i> )	S			
<b>White Grubs</b> ( <i>Phyllophaga</i> spp.)	S			

**C = Controlled    S = Suppressed**

\*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.

**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 WIREWORM, 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
	Inches	Inches	Inches	Inches	Inches
<b>Lbs. Per Acre</b>	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	<b>Gauge 5 For All Speeds</b>									
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 30 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
	Inches	Inches	Inches	Inches	Inches
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 (*Scutigera immaculata*) and suppress white grubs.

**POTATOES**

**WIREWORM AND GARDEN SYMPHYLAN (*Scutigera 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 (*Scutigera 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 (*Scutigera 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 pounds 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 (*Scutigera 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 1,000 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

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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.

### **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.

### **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.

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