

PRODUCT NUMBER  
5007

# SPECIMEN LABEL

## RESTRICTED USE PESTICIDE

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.

# mocap<sup>®</sup>



## NEMATICIDE- INSECTICIDE

### 20%

## GRANULAR

### ACTIVE INGREDIENTS

Ethionap (O-Ethyl S, S-Dipropyl Phosphorodithioate)	20
INERT INGREDIENTS	80
TOTAL	100

KEEP OUT OF REACH OF CHILDREN

# DANGER! POISON

(SEE ANTIDOTE AND WARNING INFORMATION ON BACK PANEL)

### STATEMENT OF PRACTICAL TREATMENT

**SWALLOWED:** Do not induce vomiting. Immediately drink 10 to 20 ounces of water or milk. Do not eat or drink until you have been treated by a physician.

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

**ON SKIN:** Remove contaminated clothing and wash skin with soap and water. Wash hair and eyes. Discard contaminated shoes.

**IN EYES:** Flush with plenty of water for at least 15 minutes. Call a physician immediately. See side or back panel for additional precautionary statements including note to physician.

EPA Reg. No. 359-709  
EPA Est  
0986

Manufactured by  
**RHONE-POULENC INC.**  
AGROCHEMICAL DIVISION  
P.O. Box 12014, I.W. Alexander Drive  
Research Triangle Park, N.C. 27709

NET WEIGHT  
Pounds  
(Kilo)

ACCUMULATED  
10/10/79

## PRECAUTIONARY STATEMENTS

### DANGER

### HAZARDS TO HUMAN 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, headaches, dizziness, weakness, blurring or dimness of vision, excessive tearing, loss of muscular coordination, slurring of speech, twitching of muscles (especially of tongue or 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 dilation), 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 fish and wildlife. Birds feeding in treated areas may be killed. Cover or incorporate granules that are spilled. Do not apply directly to water or wetlands. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

### 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 fields 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.

# STORAGE AND DISPOSAL

## STORAGE

Do not store in or around the home.

## PESTICIDE DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of Federal law. If these wastes can not 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.

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## INCORPORATION INFORMATION

MOCAP 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.

## NEMATODES CONTROLLED

	Field Corn and Sweet Corn			Potato	Sugarcane
	6-7 Inch Band 5 lbs. 20G/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>Hoplotaimus</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>Criconeoides</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 Nematode</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

\*Rates Based on 40-inch row spacing. Rates per acre for other row spacings are shown in the section below  
C = Control S = Suppression

### INSECTS CONTROLLED

Field Corn and Sweet Corn			Potato	Sugarcane
	6-7 Inch Band 5 lb. 20G/A*	Cultivation Application 5 lb. 20G/A*		
<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 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>	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>Eiepdes</i> spp.			C	
<i>Aeolus mellillus</i>	S			
<b>White Grubs</b>				
<i>Phyllophaga</i> spp.	S			

\*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.  
 C = Control    S = Suppression

### FIELD CORN AND SWEET CORN

**NOTE TO USER:** Make only one application of MOCAP 20% G per year.

**For control of corn rootworms, corn wireworms, cutworms, garden symphylan (*Scutigera immaculata*), nematodes and suppression of white grubs: Row treatment:** Use 6 ounces of Mocap 20% G per 1,000 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.

## LIMITED WARRANTY AND DISCLAIMER

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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 laboratory animals and to plants, and of 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, EXPRESS OR IMPLIED AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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### NOTICE TO BUYER

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

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## POTATOES

**Wireworm and garden symphylan (*Scutigerella immaculata*) control: Row treatment:** Apply 15 pounds of Mocap 20% G per acre (36-inch row spacing) or 1.0 pound per 1,000 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).

**Wireworm and garden symphylan (*Scutigerella immaculata*) control: Broadcast treatment:** Apply 20 to 30 pounds of Mocap 20% G 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% G per acre (36-inch row spacing) or 1.0 pound per 1,000 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 Mocap 20% G 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 potatoes emergence. Mix with the top 2 to 4 inches of soil after application if applied before planting. If applied after planting, apply 1/4 to 1/2 inch 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% G 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:** Use 10 to 20 pounds of 20% MOCAP 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 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.