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264-541

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

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JUN 19 1996

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Jennifer L. Phillips  
Rhone-Poulenc AG Company  
2 T. W. Alexander Drive  
P.O. Box 12014  
Research Triangle Park, NC 27709

Dear Ms. Phillips:

Subject: Mocap Gel Nematicide-Insecticide  
EPA Reg. No. 264-541  
Labeling Submitted March 14, 1996,  
As Resubmitted June 7, 1996

The label amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, As Amended (FIFRA), is acceptable, provided that you:

Submit one copy of your final printed label incorporating the following correction before you release the product for shipment.

The word "Poison" must appear on the front panel in red on a contrasting background.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended label constitutes acceptance of this condition.

Sincerely yours,

Robert A. Forrest  
Product Manager (14)  
Insecticide-Rodenticide Branch  
Registration Division (7504C)



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that contains at least 50% recycled fiber

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# 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® GEL Nematicide-Insecticide

### GEL-TEC® Water Soluble Paks

ACTIVE INGREDIENTS: Ethoprop: (O-Ethyl S, S-Dipropyl Phosphorodithioate) ..... 68.2%

INERT INGREDIENTS: ..... 31.8%

(Contains 6 pounds active ingredient per gallon)

EPA Reg. No. 264-541

EPA Est. No. 264-GA-001



# KEEP OUT OF REACH OF CHILDREN DANGER POISON PELIGRO



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).

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

Ethoprop is an organophosphate.

**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. Contains petroleum distillates. Avoid aspiration to lungs. **Note to physician:** probable mucosal damage may contraindicate the use of gastric lavage.

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

**IF ON SKIN:** Remove all contaminated clothing and wash skin with soap and water. Get medical attention.

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

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.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

JUN 19 1996

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

264-541

REC'D EPA/OPP/DPD2  
96 JUN 11 AM 1:56

## PRECAUTIONARY STATEMENTS

### DANGER

### HAZARD TO HUMANS AND DOMESTIC ANIMALS

Poisonous if swallowed, inhaled or absorbed through skin. Rapidly absorbed through skin. Do not get into eyes, on skin, or on clothing. Do not breathe fumes or spray mist. Do not contaminate feed or food.

**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.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Do not store in or around the home.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils) or viton (> 14 mils), chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, and chemical-resistant apron when cleaning equipment, mixing, or loading, and a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

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.

When handlers use closed systems, enclosed cabs, or aircraft 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 body thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms (fish and invertebrates) and extremely toxic to birds. **Cover or disc spill areas.** Birds in treated areas may be killed. For terrestrial uses, do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be dangerous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment wash waters.

Do not apply within 140 feet of inland freshwater habitats.

Along the Atlantic seaboard, do not apply within 800 feet of brackish water habitats.

Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label.

### DIRECTIONS FOR USE

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

**Read entire label before using this product.**

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.

Do not apply in Long Island, New York.

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## 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), notification to workers, and restricted-entry intervals. 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.

The 48 hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

**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 over long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber (> 14 mils), nitrile rubber (> 14 mils), or viton (> 14 mils), chemical-resistant footwear plus socks, protective eyewear and chemical-resistant headgear for overhead exposure.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

## STORAGE AND DISPOSAL

### STORAGE

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

### PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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

Dispose of uncontaminated outer paks and boxes in a sanitary landfill, or by other procedures approved by state and local authorities.

## GENERAL INFORMATION

MOCAP® GEL is formulated as a gelatinous mixture of ethoprop containing the equivalent of 6 pounds of ethoprop per gallon of formulated product. MOCAP® GEL is packaged in water soluble paks.

## CAUTIONS AND RESTRICTIONS

Use MOCAP® GEL Nematicide-Insecticide only in accordance with label directions, warnings, and cautions. Control often lasts more than six weeks varying with growing conditions, rate of use and pests. Do not use on any crop not listed on this label or supplemental labeling, as any residues remaining may be illegal or harmful. Do not store or use in or around the home or home garden.

### PLANT RESPONSE PRECAUTIONS

• To avoid possible injury to beans (snap and lima), cabbage, corn (field and sweet), cucumber, peanut and potato do not use as a seed furrow treatment or allow spray to contact the seed.

• Beans (snap and lima) grown in treated soil may remain green longer and may mature 1 to 2 weeks later than other beans.

## APPLICATION STATEMENTS

• Calibrate and adjust application equipment to insure proper rate and accurate placement. Clean application equipment thoroughly after use. For any leftover material, see instruction for "Storage and Disposal" on this label.

• Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label.

### STATE RESTRICTIONS

• Do not apply in Long Island, New York

• Rhône-Poulenc does not recommend the use of MOCAP® GEL on tobacco in Florida.

## MIXING, LOADING, AND HANDLING INSTRUCTIONS

**GENERAL HANDLING INSTRUCTIONS:** Each MOCAP® GEL water soluble pak comes sealed in a clear plastic outer sleeve. Do not break the seal until the time of use. To use, open the end of the outer sleeve by tearing along the printed solid black line at the tear notch. Do not use a knife or other sharp object to break the seal. Do not puncture the inner bag. Once the outer protective sleeve is open, the water soluble pak inside can be dropped into the spray tank at the appropriate time without touching it.

• MOCAP® GEL spray mixture may affect some plastic materials after prolonged use. Spray tubing hoses and gaskets should be inspected frequently, particularly black-colored materials. Replace any material which is softened or swollen. Polyethylene, polypropylene, nylon, and Teflon materials are recommended. Polyvinyl chloride (PVC) materials are not recommended.

**MOCAP® GEL ALONE:** Always apply MOCAP® GEL in at least 10 gallons of water per acre (20 or more gallons per acre is recommended). Fill the spray tank 1/3 full with clean water. Start the agitation system before adding the

recommended number of MOCAP® GEL soluble paks. Drop the soluble paks into the tank, putting in no more than two paks per minute. Distribute the paks across the bottom of the tank, away from the sump. After adding the final paks to the tank, continue agitation while filling the spray tank to the required level. Agitate for one minute before starting to spray. Maintain sufficient agitation to ensure uniform spray mix during application.

**MOCAP® GEL TANK-MIXTURES:** Always apply MOCAP® GEL in at least 10 gallons of water per acre (20 or more gallons per acre is recommended). Fill the spray tank 1/3 full with clean water. Start the agitation system before adding the recommended number of MOCAP® GEL soluble paks. Drop the soluble paks into the tank, putting in no more than two paks per minute. Distribute the paks across the bottom of the tank, away from the sump. After adding the final paks to the tank, continue agitation while filling the spray tank to the required level. Add the recommended amount of wettable powder, soluble powder, flowable, emulsifiable concentrate, or soluble liquid product to be tanked-mixed to the spray tank. **Do not apply liquid fertilizer with MOCAP® GEL.** Agitate for one minute before starting to spray. Maintain sufficient agitation to ensure uniform spray mix during application.

**HANDLING PRECAUTIONS**

- Do not allow the empty outer sleeve or the tear-strip to fall into the spray tank as they are not water soluble and may clog the sprayer.
- Do not handle the inner pak with wet gloves as the pak will begin to dissolve on contact with even a small amount of water.
- Do not open the inner paks or attempt to remove the gel from them. The gel is not designed to be re-measured or subdivided. The entire contents of the water soluble pak must be used.

**INCORPORATION STATEMENT**

MOCAP® GEL can be incorporated with a rotary tiller, rotary hoe, spring-tooth harrow, by double-discing or with other equipment for mixing the chemical with the soil to the recommended depth. Follow any specific incorporating instructions given under the crop headings.

**GROUND APPLICATION**

Use sufficient total spray volume to thoroughly and evenly cover the area to be treated. MOCAP® GEL gel paks are intended to be used whole and may not be opened, split, or otherwise tampered with. Estimate use requirements to the closest number of paks without exceeding labeled use rate for crop.

**Suggested methods for determination of number of paks (6 pound active ingredient each) needed:**

**Broadcast Applications**

Locate the broadcast rate or rate range under the specific crop to be treated. Determine exact rate to be used in pounds of active ingredient per acre. To calculate the number of paks, multiply the number of acres to be treated by the desired pounds active to be used per acre and divide the result by 6.

$$\text{Paks to use} = (\text{acres to be treated} \times \text{rate per acre in pounds active}) / 6$$

If the result of your calculation includes a fraction, round to the nearest number of whole paks without exceeding the maximum allowed for the target crop. For example: If a desired treatment for cabbage is comprised of 27 acres at 5 pounds active per acre then the number of paks to use would be  $(27 \times 5) / 6$  or 22.5. Since the maximum rate allowed in cabbage is 5 pounds, round the result down to 22 paks.

**Banded Applications**

Use calculation table below, multiply by the acres to be treated, and round to nearest whole pak without exceeding the specified maximum rate for the crop. For example, to spray a 24 acre field with 36 inch row spacing at a rate of 3.3 fluid ounces per 1000 row feet would require 0.4 paks per acre. This multiplied by the field size (24 acres) would be 9.6 paks for the field. Rounding to the nearest pak without exceeding the desired rate results in 9 paks.

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**CALCULATION TABLE FOR BANDED APPLICATIONS**  
**MOCAP® GEL in 1 gallon ( 6.0 pounds active ingredient) paks**

ROW SPACING (INCHES)	Fluid Ounces (FL. OZ.) of MOCAP® GEL per 1000 row feet													
	1.4	1.7	2.0	2.4	2.9	3.3	3.9	4.4	5.0	5.1	5.3	5.9	6.8	6.9
	Pounds active ingredient per 1000 row feet													
	0.066	0.080	0.094	0.113	0.136	0.155	0.183	0.206	0.234	0.239	0.249	0.277	0.319	0.323
	Row Feet treated by one (1) MOCAP® GEL pak													
	91,428	75,294	64,000	53,333	44,138	38,788	32,821	29,091	25,600	25,098	24,151	21,695	18,824	18,551
Use rates as Water Soluble Paks per acre														
20	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.4	1.4
24	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.2
28	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.0
32	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	0.9
36	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.7	0.8	0.8
40	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.7	0.7
44	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.5	0.6	0.6
48	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.6

REFER TO APPLICATION DIRECTIONS FOR SPECIFIC USE RATES FOR EACH CROP

**CALCULATION TABLE FOR BANDED APPLICATIONS**  
**MOCAP® GEL in 1 gallon ( 6.0 pounds active ingredient) paks**  
**HIGHER RATES AND WIDER ROW SPACINGS**

ROW SPACING (INCHES)	Fluid Ounces (FL. OZ.) of MOCAP® GEL per 1000 row feet						
	5.0	6.8	10.3	11.8	13.7	17.2	20.6
	Pounds active ingredient per 1000 row feet						
	0.234	0.319	0.483	0.553	0.642	0.806	0.966
	Row Feet treated by one (1) MOCAP® GEL pak						
	8,533	6,275	4,142	3,616	3,114	2,481	2,071
Use rates as Water Soluble Paks per acre							
36	0.6	0.8	1.2	1.3	1.6	2.0	2.3
48	0.4	0.6	0.9	1.0	1.2	1.5	1.8
60	0.3	0.5	0.7	0.8	0.9	1.2	1.4
72	0.3	0.4	0.6	0.7	0.8	1.0	1.2
84	0.2	0.3	0.5	0.6	0.7	0.8	1.0

REFER TO APPLICATION DIRECTIONS FOR SPECIFIC USE RATES FOR EACH CROP

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## REQUIREMENTS FOR IRRIGATION SYSTEMS

Apply this product only through sprinkler systems including: center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Wear personal protective equipment as defined in the PPE section for applicators and other handlers when making adjustments or repairs on the chemigation system when MOCAP® GEL is in the irrigation water.

### POSTING OF AREAS TO BE CHEMIGATED IS REQUIRED WHEN:

1. Any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities.
2. When the chemigated area is open to the public, posting must conform to the following requirements: Treated areas shall be posted with signs\* at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area toward the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

\*This sign is in addition to any sign posted to comply with Worker Protection Standard.

### EQUIPMENT AND OPERATIONS REQUIREMENTS:

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

The chemical injection tank should be cleaned before application to remove all fertilizer, pesticide and other foreign matter. Add MOCAP® GEL paks as described in the instructions for mixing, loading, and handling. The MOCAP® GEL water mixture in the injection tank should be under constant agitation. Carefully calibrate the system before and during application. The irrigation system should provide uniform water flow and should have no leaks.

For sprinkler irrigation systems, the MOCAP® GEL water mixture should be injected continuously during water application in 7,000 to 28,000 gallons of water per acre.

## SPECIFIC USE DIRECTIONS

Where a range of rates is recommended, use the higher rate if pest infestations are expected to be severe. To determine your infestation level, consult local or state recommendations for sampling methods and economic thresholds. Where both banded and broadcast applications are allowed, refer to the specific crop directions for the proper use of each application method. Use sufficient total spray volume for thorough and uniform application. To determine the number of water soluble paks to use for specific band rates and row widths see the calculation chart above.

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**BEANS**  
(snap and lima)

		RATE OF MOCAP® GEL		
APPLICATION TIMING	PESTS CONTROLLED	<u>BANDED</u> FL.OZ. MOCAP® GEL/ 1000 ROW FEET	<u>BROADCAST</u> GALLONS PER ACRE	APPLICATION DIRECTIONS
at planting or up to 3 days before planting	nematodes garden symphylans	2 to 3.9	1 to 1 1/3	<b>Band:</b> Apply in 12 to 15 inch band on the row (36-inch row spacing). Do not use as a seed furrow treatment or allow spray to contact the seed or phytotoxicity may occur. Mix with the top 2 to 4 inches of soil immediately after application. For at-planting application to seeded crops, shallow incorporation (1/4 to 1/2 inch) into the soil with mechanical equipment followed by sprinkler irrigation may be used.  <b>Broadcast:</b> Apply using the indicated broadcast rate per acre and mix with the top 2 to 4 inches of soil immediately after application.
	garden symphylans	2 to 3.9	1/3 to 1/2 (or 1 1/3 to 2 quarts)	
<b>Note:</b> Beans grown in treated soil may remain green longer than other beans and mature 1 to 2 weeks later. Make only one application per crop.				

**CABBAGE**

		RATE OF MOCAP® GEL		
APPLICATION TIMING	PESTS CONTROLLED	<u>BANDED</u> FL.OZ. MOCAP® GEL/ 1000 ROW FEET	<u>BROADCAST</u> GALLONS PER ACRE	APPLICATION DIRECTIONS
at planting or up to 1 week before planting	nematodes garden symphylans	2.4	5/6 (or 3 1/3 quarts)	<b>Band:</b> Apply in 12 to 15 inch band on the row (36-inch row spacing). Do not use as a seed furrow treatment or allow spray to contact the seed or phytotoxicity may occur. Mix with the top 2 to 4 inches of soil immediately after application. For at-planting application to seeded crops, shallow incorporation (1/4 to 1/2 inch) into the soil with mechanical equipment followed by sprinkler irrigation may be used.  <b>Broadcast:</b> Apply the indicated rate per acre and mix with the top 2 to 4 inches of soil immediately after application.
<b>Note:</b> Make only one application per crop.				



**CORN (field and sweet)**

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		<u>BANDED</u> FL.OZ. MOCAP® GEL/ 1000 ROW FEET	<u>BROADCAST</u> GALLONS PER ACRE	
at-planting	corn rootworms wireworms cutworms garden symphylans suppression of white grubs	1.4	N/A	<b>Band:</b> Apply in a 6 to 7 inch band on the row over a closed seed furrow. Mix with the top 1/2 inch of soil using drag chains, spring-tooth incorporators, or similar equipment.
at-planting	nematodes corn rootworms wireworms cutworms garden symphylans suppression of white grubs	2.4 to 2.9	N/A	<b>Band:</b> Apply in a band 12 to 15 inches wide on the row. Mix treatment with the top 2 to 4 inches of soil right after application.

**Note:** Do not apply in seed furrow or allow spray to come into contact with seed or phytotoxicity may occur. Make only one application per crop.

**CUCUMBERS**

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		<u>BANDED</u> FL.OZ. MOCAP® GEL/ 1000 ROW FEET	<u>BROADCAST</u> GALLONS PER ACRE	
at or just before planting	nematodes	5.3	N/A	<b>Band:</b> Apply in a band 12 to 15 inches wide on the row (7-foot row spacing). Mix with the top 2 to 4 inches of soil right after application. Where beds are used, prepare bed and knock off top to provide a level area for treatment. Do not use as a seed furrow treatment or allow spray to contact the seed or phytotoxicity may occur.

**Note:** Make only one application per crop.

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**PEANUTS**

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		BANDED FL.OZ. MOCAP® GEL/ 1000 ROW FEET	BROADCAST GALLONS PER ACRE	
at-planting or up to 1 week before planting	nematodes	2.9 to 5.9	3/4 to 1 or (3 to 4 quarts)	<b>Band:</b> Apply in a 12-inch band on the row (36-inch row spacing) at planting. Do not use as a seed furrow treatment or phytotoxicity may occur. <b>Broadcast:</b> Make application from one week before planting to at-planting time.

**Note:** Use the higher rate for control of peanut root knot nematode (*M. arenaria*) and in fields where infestations of other nematodes have been especially severe. To determine your infestation level, consult local or state recommendations for sampling methods and economic thresholds. Mix with the top 2 to 4 inches of soil immediately after application.

Make only one application per crop.

**PINEAPPLE  
(Hawaii only)**

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		BANDED FL.OZ. MOCAP® GEL/ 1000 ROW FEET	BROADCAST GALLONS PER ACRE	
plant crop	nematodes	N/A	1/2 to 1	Apply through drip irrigation system in 0.25 to 0.5 inches of water. Make first application at planting or within 2 months after planting. Apply additional treatments about every two months. Preplant application of a registered fumigant may be needed for adequate crop protection.
ratoon crop	nematodes	N/A	1/2 to 1	Apply through drip irrigation system in 0.25 to 0.5 inches of water. The first application may begin immediately after prior crop harvest. Apply additional treatments about every two months.

**SPECIFIC REQUIREMENTS FOR DRIP IRRIGATION SYSTEMS:** SEE REQUIREMENTS FOR IRRIGATION SYSTEMS IN EARLIER PORTION OF LABEL FOR GENERAL USE AND POSTING REQUIREMENTS. All lines should be placed under plastic sheeting or at least 4 inches below the soil surface so that there is no surface pooling of treated water.

**Note:** Do not treat within 120 days of harvest of either plant crop or ratoon crop. Do not make more than 8 applications or apply more than 8 gallons of MOCAP® GEL per acre per plant crop. Do not make more than 5 applications or apply more than 5 gallons of MOCAP® GEL per acre per ratoon crop.

POTATOES

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		BANDED FL.OZ. MOCAP® GEL/ 1000 ROW FEET	BROADCAST GALLONS PER ACRE	
prior to planting or at planting  or prior to crop emergence	symphylans wireworms	4.4	2/3 to 1	<b>Band:</b> Uniformly distribute spray in a 12 inch band over the row (36-inch row spacing), either behind the planter shoe next to the closing disk or immediately in front of the planter shoe. Mix with the top 2 to 4 inches of soil.
	nematodes (excluding Northern root knot, Columbia root knot, and stubby root nematodes in the Pacific Northwest; suppression of stubby root nematode in areas outside the Pacific Northwest)	4.4	1 to 2	See conversion table above for equivalent number of water soluble paks per acre. <b>CAUTION:</b> Certain early-season environmental conditions and agronomic practices may impose stresses on the potato seed piece resulting in delayed emergence. Under these conditions, the application of MOCAP® GEL as a concentrated band directly in the furrow may increase the potential for delayed emergence. To minimize the contribution of MOCAP® GEL to this effect, apply so as to distribute the product in the soil surrounding the seed piece and avoid application directly into the seed furrow. For moderate* to heavy* infestations of wireworms or nematodes use the broadcast application instead of band or sidedress. Wireworm infestations will be especially heavy* in potatoes planted following wireworm host crops such as (but not limited to) sod, grass for seed, pasture, cereal, corn, hay, alfalfa, beans, onions, potatoes, new ground, fallow ground (weedy or cultivated), or ground not farmed for a year or more. <b>Broadcast:</b> Apply uniformly and immediately incorporate 2 to 4 inches deep using suitable tillage equipment. Apply within 2 weeks before planting until prior to crop emergence.
	Northern root knot nematode in the Pacific Northwest	N/A	1 to 2 (1 1/2 to 2 in the Columbia River Basin)	<b>Broadcast Only:</b> Apply uniformly and immediately incorporate 2 to 4 inches (4 to 8 inches in the Columbia River Basin) deep using suitable tillage equipment. Apply within 2 weeks before planting until prior to crop emergence. Under severe* infestation or long growing season conditions, MOCAP® GEL may not adequately protect tuber quality.

**POTATOES  
(continued)**

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		BANDED FL.OZ. MOCAP® GEL/ 1000 ROW FEET	BROADCAST GALLONS PER ACRE	
prior to planting or at planting or prior to crop emergence	Suppression of Columbia root knot and stubby root nematodes in the Pacific Northwest	N/A	2	<b>Broadcast Only:</b> Apply uniformly and immediately incorporate 4 to 8 inches deep using suitable tillage equipment. Best results are obtained with deep (6-8 inches), even incorporation. Apply within 2 weeks before planting. It is recommended that MOCAP® GEL be applied following fall or spring application of a registered fumigant nematicide. In the Columbia River Basin, it is strongly recommended that MOCAP® GEL be applied following fall or spring application of a registered fumigant nematicide. Under severe* infestation or long growing season conditions, MOCAP® GEL may not adequately protect tuber quality.

**Note:** Use the broadcast application instead of band for control of moderate\* to heavy\* infestations of wireworms or nematodes. Do not make more than 1 application per crop. Do not make aerial applications. Do not exceed 12 pounds of active ingredient per acre per crop. Do not apply MOCAP® GEL once plants have begun to emerge. The Pacific Northwest potato growing region is considered to include the states of Washington, Oregon, and Idaho. The Columbia River Basin is considered to include Umatilla and Morrow Counties of Oregon and Grant, Adams, Franklin, Benton, Yakima, and Walla Walla Counties of Washington).

\*To determine your infestation level, consult local or state recommendations for sampling methods and economic thresholds.

**SUGARCANE**

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		BANDED FL.OZ. MOCAP® GEL/ 1000 ROW FEET	BROADCAST GALLONS PER ACRE	
at-planting	nematodes wireworms	5 to 11.8	N/A	<b>Band:</b> Apply evenly in a band 12 to 15 inches wide centered over the seed pieces in the opened furrow (6-foot row spacing) immediately before closing. Mix with the soil using a disc tiller or other suitable equipment as the cane is covered. Use the higher rates in fields where nematode and/or wireworm infestation are severe. To determine your infestation level, consult local or state recommendations for sampling methods and economic thresholds.

**NOTE:** Make only one application per crop.

## SWEET POTATOES

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		<u>BANDED</u> FL.OZ. MOCAP® GEL/ 1000 ROW FEET	<u>BROADCAST</u> GALLONS PER ACRE	
2 to 3 weeks before planting	nematodes wireworms white grubs banded cucumber beetle flea beetle larvae (palestriped and sweet potato flea beetles)	5.1 to 6.9	1 to 1 1/3	<b>Band:</b> Apply in a band 12 to 15 inches wide on the row (minimum 42-inch row spacing). Mix with the top 2 to 4 inches of soil immediately after application. Good results have also been obtained by opening the row, applying in a 12 to 15 inch band on the row, bedding over and dragging. <b>Broadcast:</b> Apply the indicated rate per acre and mix with the top 2 to 4 inches of soil immediately after application.

**Note:** Make only one application per crop.

## TOBACCO

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		<u>BANDED</u> FL.OZ. MOCAP® GEL/ 1000 ROW FEET	<u>BROADCAST</u> GALLONS PER ACRE	
from one week before transplanting to transplanting time	southern root-knot nematode wireworms cutworms flea beetle larvae mole crickets	10.3 to 20.6	1 to 2	<b>Band:</b> Apply in a band 18 to 24 inches wide on the row (42-inch row spacing) after the fertilizer has been listed or bedded. Mix with the top 2 to 4 inches of soil immediately after application. <b>Broadcast:</b> Use a double gang disc harrow or other cultivating equipment that will do a good job of mixing MOCAP® GEL with the soil. After mixing, apply fertilizer and, for best results, shape a wide bed with a tractor equipped with 4 disc hillers and wide sweeps for running out the middles. Be sure that only the treated soil (top 2 to 4 inches) is used to make beds.
	flea beetles	10.3 to 20.6	1 to 2	Add 1/2 gallon (4 pints) per acre of Di-Syston® 8 Liquid Systemic Insecticide to the spray tank containing MOCAP® GEL mixture for nematode and wireworm control (see above). Do not make more than one field application per crop per season regardless of the formulation of Di-Syston used. Mix with the top 2 to 4 inches of soil immediately after application.
from two weeks before transplanting to transplanting time	cutworms flea beetle larvae wireworms	N/A	1/3	<b>Broadcast:</b> Broadcast material uniformly on top of the soil and incorporate to a depth of 2 to 4 inches. Use a disc harrow or other cultivation equipment that will do a good job of mixing MOCAP® GEL with the soil.

**Note:** Use the higher rates in fields where nematode infestations have been especially severe or where soil is sandy. To determine your infestation level, consult local or state recommendations for sampling methods and economic thresholds. Mix with the top 2 to 4 inches of soil immediately after application. Make only one application per crop.

\*This product can be mixed with Di-Syston® 8 Liquid Systemic Insecticide for use on tobacco in accordance with the more restrictive label limitations and precautions.

• Rhône-Poulenc does not recommend the use of MOCAP® GEL on tobacco in Florida.

ORNAMENTALS: Field Grown Nursery Stock Only

APPLICATION TIMING	PESTS CONTROLLED	RATE OF MOCAP® GEL		APPLICATION DIRECTIONS
		BANDED FL. OZ. MOCAP® GEL/ 1000 ROW FEET	BROADCAST GALLONS PER ACRE	
preplant broadcast only	nematodes symphylans	N/A	1/2 to 1	<b>PREPLANT BROADCAST ONLY:</b> Apply as a uniform broadcast on top of the soil and incorporate to a depth of 2 to 4 inches. Nursery stock may be transplanted into the treated area after 72 hours. Workers involved in transplant operation must wear protective clothing including high top boots and gloves.

**Note:** For use on ornamental plants such as Azalea, Boxwood, Caladium, Camellia, Cape Jasmine, Gardenia, Holly, and Yew. If plants other than those mentioned on this label require treatment, only a few should be treated until effects can be determined. Some plants or varieties may show temporary growth retardation after treatment. Do not allow MOCAP® GEL to contact the foliage of any plants, as severe injury may result.

Use the higher rates in fields where nematode infestations have been especially severe or where soil is sandy. To determine your infestation level, consult local or state recommendations for sampling methods and economic thresholds. Mix with the top 2 to 4 inches of soil immediately after application.

15/15

## 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 OR 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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