

MORGAN

BRAND NAME

ACTIVE INGREDIENT: Ethoprop O-Ethyl S, S-Dipropyl Phosphorodithioate	10%
INERT INGREDIENTS	90%
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN
WARNING

(SEE ANTIDOTE AND WARNING INFORMATION ON BACK PANEL)

U.S. Patent Nos. 3,112,244; 3,285,353

EPA Reg. No. 3587 (D-3)
EPA Est. No.

Manufactured by
RHONE-POULENC CHEMICAL COMPANY
AGROCHEMICAL DIVISION
RHONE-POULENC

BEST DOCUMENT AVAILABLE

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: May be fatal 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 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 succinylcholine is contraindicated.

Allow no further exposure until cholinesterase regeneration has taken place as determined by blood tests. Repeated exposure to cholinesterase inhibitors may, without warning, cause increasing susceptibility to very small doses of any cholinesterase inhibitor. This will last for several weeks following exposure.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Birds and other wildlife feeding in treated areas may be killed. Keep out of lakes, streams or ponds. 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.

STORAGE AND DISPOSAL

1. PROHIBITIONS:

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

2. PESTICIDE DISPOSAL:

Pesticide that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

3. CONTAINER DISPOSAL:

Dispose of in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

4. GENERAL:

Consult Federal, state or local disposal authorities for approved alternative procedures such as limited open burning.

INCORPORATION INFORMATION

Mocap nematocide-insecticide 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 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 ($\frac{1}{4}$ to $\frac{1}{2}$ inch) with mechanical equipment such as drag chains is required.

NEMATODES CONTROLLED

Mocap controls all the following nematode species: Root-knot nematodes (*Meloidogyne incognita*, *M. hapla*), Lesion (Meadow) nematodes (*Pratylenchus* species), Spiral nematodes (*Rotylenchus* and *Helicotylenchus* species), Lance nematodes (*Hoplolaimus* species), Sting nematodes (*Belonalimus* species), Ring nematodes (*Criconemoides* species), Stunt nematodes (*Tylenchorhynchus* species), Citrus nematode (*Tylenchulus semipenetrans*), Burrowing nematode (*Radopholus similis*) and Stubby root nematodes (*Trichostrongylus* species).

Do not use Mocap as a seed furrow treatment or allow granules to contact the seed (except on sugarcane) because crop injury may occur.

BANANA AND PLANTAIN

For nematode and root borer (*Cosmopolites sordidus*) control: Apply 50 grams of 10% MCCAP in a radius of $\frac{1}{4}$ meter around each producing stem or 2 ounces of 10% MCCAP in a radius of 30 inches. Before application, remove ground litter from area to be treated and apply granules evenly. For best results, make application just before irrigation or a rainy period. If application is made during a dry period, mix granules into the top inch of soil with a rake. Repeat application in 6 months.

FIELD CORN AND SWEET CORN

At-planting application for corn rootworm, corn wireworm and nematode control: Use 12 ounces of 10% MCCAP 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:	10	10.5	11.1	13.3	20

BEST DOCUMENT AVAILABLE

Apply the granules in a 6 to 7-inch band on the row over a closed seed furrow. Mix the granules with the top 1/2 inch of soil with drag chains, spring-tooth incorporators, or similar equipment. Do not use a seed furrow treatment or allow granules to contact the seed.

For commonly used applicators see calibrations below:

Gauge settings for 12 ounces per 1000 feet of row
Do not change with row width.

Brand of Applicator	SPEED IN MILES PER HOUR									
	2	3	4	5	6	7	8	9	10	
Allis Chalmers	At all Speeds: GA9 = 11.35 Ounces. GA10 = 12.7 Ounces									
Gandy	19.1	23.5	26.7	29.5	32.1	34.5	36.6	38.7	40.8	
International Harvester*	1/8.0	2/2.7	2/8.5	3/4.0	3/8.7	4/5.0	5/1.3	5/6.0	6/1.5	
International Harvester (Cyclo)	1/5.7	1/9.3	2/4.7	3/0.5	3/5.1	4/0.6	4/5.8	5/1.5	5/7.0	
John Deere**	1/29	2/6	2/13	2/19	2/27	3/1	3/6	3/11	3/15	
John Deere (Max. Emerge)	13	19	24	29	32	33	35	36	37	
Noble	13	19	24	28	31	34	36	38	39	
Noble (New)	9	11	14	17	20	22	25	27	29	

*1/2.0 means Gate 1, Dial 8.0
**1/29 means Range 1, Notch 29

Cultivation application for corn rootworm control: Apply after planting until layby. Use the rates shown above for at-planting application. 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 1/2 to 1 inch of soil right after application.

Nematode control: Row treatment: Use 1-1/8 to 1-1/2 pounds of 10% MOCAP per 1,000 feet of row. Rate per acre depends on row spacing as shown below. Make application in a band 12 to 15 inches wide on the row.

Row spacing:	40"	38"	36"	30"	20"
Lbs. per acre:	15-20	15.5-21	16.3-22.2	19.6-26.6	30-40

Broadcast treatment: Use 60 pounds of 10% MOCAP per acre or 1-1/2 pounds per 1,000 square feet. Apply treatment from 3 days before planting to at-planting time. Mix treatment with the top 2 inches of soil right after application. The treatments for nematode control will also control rootworm and corn wireworm. Do not use as a seed furrow treatment or allow granules to contact the seed.

Cutworm: The at-planting treatments for corn rootworm or nematode control will control moderate infestations of black cutworms and sandhill cutworms.

CUCUMBER

Row treatment for nematode control: Use 20 pounds of 10% MOCAP per acre (7-foot row spacing) or 3/10 pound per 100 linear feet of row. Make application in a band 12 to 15 inches wide on the row at or just before planting. Prepare bed and knock off top to provide a level area for treatment. Mix with the top 2 inches of soil right after application. Do not use as a seed furrow treatment or allow granules to contact the seed.

PEANUT

Row treatment for nematode control at planting: Use 20 pounds of 10% MOCAP per acre (2 ounces per 100 linear feet of row) in a band 12 inches wide on the row, or 30 to 40 pounds per acre (3 to 4 ounces per linear foot of row) in a band 15 to 18 inches wide (36 inch row spacing).

Broadcast treatment at planting: Use 40 to 60 pounds of 10% MOCAP per acre. Make application from 1 week before planting to at-planting time. Mix with the top 4 inches of soil right after application. Do not use as a seed furrow treatment or allow granules to contact the seed.

Nematode and corn rootworm control at pegging: Use 30 pounds of 10% MOCAP per acre (36-inch row spacing) or 1.5 pound per 100 linear feet of row. Make application in a band 15 to 18 inches wide on the row.

Corn rootworm control at pegging: Use 25 pounds of 10% MOCAP per acre (36-inch row spacing) or 1.6 pound per 100 linear feet of row. Make application in a band 18 inches wide on the row.

NOTE: Pegging treatment should be incorporated lightly into the soil.

BEST DOCUMENT AVAILABLE

PINEAPPLE

Broadcast treatment for nematode control: Use 200 to 400 pounds of 10% MOCAP per acre. Use higher rates where longer residual activity is desired or in a field where nematodes have been especially severe. Apply as broadcast treatment anytime from 3 weeks before planting to at-planting time. Mix with the top 4 inches of soil right after application.

SOYBEAN

Row treatment for nematode control: Use 15 to 30 pounds of 10% MOCAP per acre or 1/8 to 1/4 pound per 100 linear feet of row. Make application in a band 12 to 15 inches wide on the row anytime from 1 week before planting to at-planting time. Mix with the top 3 inches of soil right after application. Do not use as a seed furrow treatment or allow granules to contact seed.

NOTE: Soybeans treated with organo phosphate chemicals such as MOCAP may be more susceptible to injury from metribuzin and propanil herbicides.

SUGARCANE

Furrow treatment for nematode control: Use 20 to 40 pounds of 10% MOCAP per acre at planting time (6-foot row spacing). Use the higher rates where nematodes have been especially severe. Apply evenly in a band 12 to 15 inches wide, centered over the seed pieces in the opened furrow, immediately before closing. Mix with the soil with a disc tiller or other suitable equipment as the cane is covered.

SNAP BEAN AND LIMA BEAN

Row treatment for nematode control: Use 20 to 30 pounds of 10% MOCAP per acre (36-inch row spacing) or 1/7 to 1/5 pound per 100 linear feet of row. Make application in band 12 to 15 inches wide on the row.

Broadcast application for nematode control: Use 60 to 80 pounds per acre. Apply anytime from 3 days before planting to at-planting time. Mix with the top 4 inches of soil right after application. Do not use as a seed furrow treatment or allow granules to contact the seed.

NOTE: Beans grown in treated soil may remain green longer than other beans and mature 1 to 2 weeks later.

CABBAGE

Row treatment for nematode control: Use 20 pounds of 10% MOCAP per acre on a band 15 inches wide on the row (36-inch row spacing) or 1/8 pound per 100 linear feet of row.

Broadcast treatment for nematode control: Use 50 pounds of 10% MOCAP per acre. Apply evenly over the soil area to be treated from 1 week before planting to at-planting time. Mix with the top 3 inches of soil right after application. Do not use as a seed furrow treatment or allow granules to contact the seed.

SWEET POTATO

For nematode, wireworm and fleabeetle larvae (pale striped and sweet potato fleabeetle) control:

Row treatment: Use 30 to 40 pounds of 10% MOCAP per acre or 1/4 to 1/3 pound per 100 linear feet of row (minimum 42-inch row spacing). Make application in a band 12 to 15 inches wide on the row 2 to 3 weeks before planting. Mix with the top 4 inches of soil right after application.

Good results have been obtained by opening the row, applying 10% MOCAP in a 12 to 15-inch band on the row, bedding over and dragging.

Broadcast treatment: Use 60 to 80 pounds of 10% MOCAP per acre. Apply the treatment evenly on top of the soil 2 to 3 weeks before planting. Mix with the top 4 inches of soil right after application. Use a double gang disc harrow or other equipment which will do a good job of mixing the 10% MOCAP with the soil.

TOBACCO

Row treatment for nematode and wireworm control: Use 60 pounds of 10% MOCAP per acre or 1/2 pound per 100 linear feet of row. Apply after fertilizer has been listed or bedded. Make application in a band 18 to 24 inches wide on the row anytime from 1 week before planting to at-planting time. Mix with the top 4 inches of soil right after application.

BEST DOCUMENT AVAILABLE

Broadcast treatment for nematode and wireworm control: Use 60 to 80 pounds of 10% MOCAP per acre. Apply the treatment evenly on the top of the soil anytime from 1 week before planting to at-planting time. Mix with the top 3 inches of soil right after application. Use a double gang disc harrow or other equipment which will do a good job of mixing the 10% MOCAP with the soil. After mixing, apply fertilizer and, for best results, shape a wide bed with a tractor equipped with 4 disc pliers and wide sweeps for running out the middles. Be sure that only the treated soil (top 3 inches) is used to make beds.

The 80-pound treatment is recommended for fields in which nematode injury to tobacco has been especially severe, or where soil is sandy.

Broadcast treatment for wireworm control: Use 20 pounds of 10% MOCAP per acre. Apply as a broadcast treatment anytime from 2 weeks before planting to at-planting time. Mix with the top 2 inches of soil right after application. Use a disc harrow or other cultivating equipment that will do a good job of mixing 10% MOCAP with the soil.

COMMERCIAL TURF

(For Use Only by Professional Turfmen on Bahia, Bermuda, Centipede, Fescue, Kentucky Blue, St. Augustine, and Zoysia grasses.)

MOCAP is an effective contact nematicide for control of nematodes that attack commercial turf such as golf courses, sod farms and cemeteries. Established turf infested with sting and other parasitic nematodes shows increased vigor and improved appearance within 7 to 10 days following treatment. MOCAP treatment at recommended rates will protect turf grasses from further nematode injury for 6 months to an entire growing season.

For nematode control: Use 5 to 7 pounds of 10% MOCAP per 1,000 square feet of established turf (200 to 300 pounds per acre). Apply uniformly with a fertilizer spreader or other suitable equipment. Immediately after application apply 1/2 inch of water to treated turf. Failure to apply water may result in poor nematode control. NOTE: Do not use on home lawns. Do not use on newly seeded areas until plants are well established. Do not cut sod or handle treated turf for 21 days after treatment. Birds and other wildlife in treated areas may be killed. Do not apply with equipment carried on the chest which allows the dust to be inhaled. Do not apply where runoff is likely to occur.

WHITE (IRISH) POTATO

Wireworm and nematode control: Row treatment: Use 30 pounds of 10% MOCAP per acre (40-inch row spacing) or 1/4 pound per 100 linear feet of row. Make application in a band 12 inches wide on the row at planting. For broadcast treatment use 30 pounds per acre.

Wireworm control only: Broadcast treatment: Use 40 - 60 pounds per acre. Mix treatment with the top 4 inches of soil right after application. Do not use as a seed furrow treatment or allow granules to contact the seed pieces.

CONDITIONS OF SALE, WARRANTY, LIMITATION OF LIABILITY: The directions for use on this label reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Rhone-Poulenc Chemical Co. or the Seller.

Rhone-Poulenc Chemical Co. warrants that this product conforms to the chemical description of the label and is reasonably fit for the purposes described on the label subject to the inherent risks referred to above. Anything else on this label to the contrary notwithstanding,

..... **RHONE-POULENC CHEMICAL CO. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.** In no case shall

..... Rhone-Poulenc Chemical Co. or the Seller be liable for consequential, special, or indirect damages such as loss of profits or values resulting from the use or handling of this product.

..... Rhone-Poulenc Chemical Co. and the Seller offer this product and the Buyer and user accept it, subject to the foregoing conditions of sale, warranty and limitation of liability which may be varied only by an agreement in writing signed by a duly authorized employee of

..... Rhone-Poulenc Chemical Co.

.....
.....
.....

BEST DOCUMENT AVAILABLE

BLE02CA981 MMG