

# 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup>

### Nematicide Insecticide

### CLOSED HANDLING SYSTEM

#### ACTIVE INGREDIENTS:

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

INERT INGREDIENTS.....80%

EPA Reg. No. 264-469

EPA Est. No. 5905-IA-1

### 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

264-469

### STATEMENT OF PRACTICAL TREATMENT

Ethoprop is an organophosphate.

**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.

**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 3% 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

### PRECAUTIONARY STATEMENTS

#### HAZARD TO HUMANS (AND DOMESTIC ANIMALS)

#### DANGER

Poisonous if swallowed, inhaled or absorbed through skin. Rapidly absorbed through skin. Do not breathe fumes or dust. 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 AND CHEMICAL HAZARDS:

Do not store in or around the home.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear coveralls over long-sleeved shirt and long pants, waterproof gloves, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, chemical-resistant apron when cleaning equipment, mixing, or loading and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

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.

The Lock N' Load system, when used correctly, qualifies as a closed loading system under the WPS. Mixer/loaders correctly loading this product using the Lock N' Load system are permitted to wear long-sleeved shirt and long pants, shoes and socks, a chemical-resistant apron, and waterproof gloves.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown. The PPE required for applicators and other handlers must be worn when performing all pesticide handling tasks other than loading and application, such as spill clean-up and equipment maintenance, cleaning and repair.

## 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.

## ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms (fish and 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 by cleaning of equipment wash waters.

## 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.

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.

## 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, waterproof gloves, 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.

## INCORPORATION INFORMATION

MOCAP™ 20% Granular Lock 'n Load™ 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 container into application equipment. Return container to point of purchase.

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> (Xiphinema spp.) (X. americanum)	C C	C C	C C		
<b>LANCE NEMATODES</b> (Hoplolaimus spp.) (H. galeatus)		S S	S S		
<b>LESION NEMATODES</b> (Pratylenchus spp.) (P. hexincisus) (P. zea) (P. penetrans)	C C C	C C C	C C C	C	C
<b>RING NEMATODES</b> (Criconemoides spp.) (C. ornatus)	S S	S S	S S	C	C
<b>ROOT-KNOT NEMATODES</b> (Meloidogyne spp.) (M. hapla) (M. incognita) (M. Chitwoodi)		C C C	C C C	C C S	C
<b>SPIRAL NEMATODES</b> (Helicotylenchus spp.) (H. pseudorobustus) (H. dihystra) (Rotylenchus spp.)	C	C C C C	C C C C	C	
<b>STING NEMATODES</b> (Belonolaimus spp.) (B. longicaudatus)		C C	C C	C	
<b>STUBBY-ROOT NEMATODES</b> (Trichodorus spp.) (T. christei)	C C	C C	C C	C	C
<b>STUNT NEMATODES</b> (Tylenchorhynchus spp.) (T. martini)	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 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> ) ( <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 spp.</i> ) ( <i>Aeolus mellii</i> )	C C C C C C C C C C S		C C C C	
<b>White Grubs</b> ( <i>Phyllophaga spp.</i> )	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.

## FIELD CORN AND SWEET CORN

**NOTE TO USER:** Make only one application of MOCAP<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> Nematicide-Insecticide per year.

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

**Row Treatment:** Use 6 ounces of MOCAP<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> Nematicide-Insecticide 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<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> 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.

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## 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.

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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 the United States.

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MOCAP is a registered trademark of Rhône-Poulenc

Lock 'n Load is a trademark of American Cyanamid Co.

MOCAP<sup>®</sup> 20% Granular Lock 'n Load<sup>™</sup> Nematicide-Insecticide (PENDING) Submitted 4/21/95.