



# Mocap<sup>®</sup> 10G

<b>CONTAINS</b>	A granular systemic nematicide/Insecticide containing 10% w/w ethoprophos.
<b>CONTROLS</b>	For use only as an agricultural nematicide and insecticide, which is applied to the soil using recommended types of granule applicators for the control of potato cyst nematode and reduction in wireworm damage on all varieties of potatoes.

PCS 91873

## DIRECTIONS FOR USE

**IMPORTANT:** This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

## RATE OF USE

CROP	MAXIMUM INDIVIDUAL DOSE	MAXIMUM NUMBER OF APPLICATIONS	LATEST TIME OF APPLICATION	SPECIFIC PESTS CONTROLLED
Potato - all varieties	Potato cyst nematodes and wireworms: 110 kg/ha. Wireworm only: 60 kg/ha.	One per batch.	Pre-planting.	Potato cyst nematodes and wireworms.

## PESTS CONTROLLED

Mocap 10G is used to control potato cyst nematode and for reduction in wireworm damage on all varieties of potatoes.

insecticide

## CROP SPECIFIC INFORMATION

**For the control of Potato cyst nematodes and wireworms:** 110 kg/ha.  
**For the control of Wireworms only:** 60 kg/ha.

Latest timing of application is pre-planting of crop. **DO NOT** harvest potatoes until 10 weeks have elapsed from the time of Mocap 10G application.

Mocap 10G can be used on all soil types. The control of potato cyst nematode and reduction in wireworm damage will be lower when Mocap 10G is used on organic soils. Control of nematodes and wireworms by Mocap 10G depends on having sufficient soil moisture to release the active ingredient into the soil spaces where the pests reside. Periods of drought after application of Mocap 10G may severely reduce the amount of pest control obtained, sometimes leading to unacceptable levels of damage.

### IMPORTANT:

Where pre planting populations of nematodes are high, a loss of plant vigour and subsequent reduction in yield may still be noticed despite the use of Mocap 10G. In these conditions, it is recommended that only PCN tolerant varieties be grown, even then, vigour reductions might still be observed in some areas of the field. Consult your specialist adviser for further information.

In fields where populations of wireworms are high, damage may still be noticed despite the use of Mocap 10G. Consult your specialist adviser for further information about wireworm risk assessment.

### Application

Broadcast shortly before or during the final soil preparations before planting. Distribute Mocap 10G evenly over the soil surface using a spreader calibrated to deliver the correct dose. Incorporate Mocap 10G into the soil immediately following application, preferably in the same operation. Efficacy will be reduced if not incorporated within one working day. If full incorporation cannot be completed within one working day, then immediately cover the granules by a light harrowing prior to full incorporation.

### Incorporation

Incorporate Mocap 10G evenly to a depth of 10-15 cm. Deeper incorporation may reduce efficacy. One pass with a powered rotary cultivator is preferred, however, power harrows, discs, spring tines or Dutch harrows can be used provided that two passes at right angles are made. Where incorporation is made with stone separating equipment, efficacy will be reduced.

## COMPANY ADVISORY INFORMATION

### Calibration of Applicators

For application to field scale crops it is recommended that Mocap 10G must only be applied through positive displacement type specialist granule applicators or dual purpose fertiliser applicators with microgranule setting. Accurate application via orifice metering granule applicators is very difficult to achieve and it is, therefore recommended that these types of machines should not be used.

Mocap 10G should be applied using an applicator, capable of accurately distributing micro-granules. Such applicators include air flow (pneumatic) fertiliser applicators with micro-granule settings, or the Chafer Machinery Limited's Horstine Farmery Gravity Microband.

Before applying Mocap 10G, all machines must be individually calibrated with this product according to the equipment manufacturer's instructions.

For up-to-date information on recommended machinery settings, please see separate literature available from Bayer CropScience Ltd., or ask your local distributor.

## A) Pneumatic Broadcast Machines

### Horstine Farmery Applicators

#### a. TMA2 or TMA4 – 5 and 10 metre spread widths

**Deflector plate:** 17 degrees.

**Deflector plate gap:** 16 mm.

**NOTE:** The 110 kg/ha rate of Mocap 10G can only be applied with the TMA by making two passes with the machine set for 55 kg/ha as appropriate.

ROTOR AND DRIVE SETTINGS	MOCAP 10G DOSE RATE		
		60 kg/ha	55 kg/ha
14mm deep flute (2 per outlet)	Chain Drive	25T driving a 22T	34T driving a 28T
14mm deep flute (2 per outlet)	Pulley Drive	5" driving a 4.5"	4" driving a 4"

#### b. TMA4 – 12 metre spread width

**Deflector plate:** 13 degrees.

**Deflector plate gap:** 19 mm.

ROTOR AND DRIVE SETTINGS	MOCAP 10G DOSE RATE		
		60 kg/ha	55 kg/ha
14mm deep flute (2 per outlet)	Chain Drive	31T driving a 22T	28T driving a 22T
14mm deep flute (2 per outlet)	Pulley Drive	7" driving a 5"	5" driving a 4"

## c. CASCADE – 12 or 18 metre spread widths

### i) Machines up to December 1990

**Metering Rotors:** 14mm deep fluted (2 per outlet).

REV COUNTER SETTINGS	FORWARD SPEED			
Mocap 10G dose rate	4 mph	5 mph	6 mph	7 mph
	6.4 kph	8 kph	9.6 kph	11.2 kph
55 kg/ha	39	49	59	69
60 kg/ha	43	53	64	75
110 kg/ha	78	98	Not possible. Use 55 kg x 2 passes.	Not possible. Use 55 kg x 2 passes.

### ii) Machines From January 1991

**Metering Rotors:** One half rate fertiliser rotor per outlet.

REV COUNTER SETTINGS	FORWARD SPEED			
Mocap 10G dose rate	4 mph	5 mph	6 mph	7 mph
	6.4 kph	8 kph	9.6 kph	11.2 kph
55 kg/ha	45	57	68	79
60 kg/ha	49	62	74	86
110 kg/ha	90	113	Not possible. Use 55 kg x 2 passes.	Not possible. Use 55 kg x 2 passes.

## 2. Nodet-Gougis DPS - 12 applicator

**Fan shutter:** Two-thirds open.

**Metering rollers:** Standard fertiliser.

**Boom height:** Set boom so that spreader outlets are 0.5m above ground.

REV COUNTER SETTINGS	FORWARD SPEED			
Mocap 10G dose rate	4 mph	5 mph	6 mph	7 mph
	6.4 kph	8 kph	9.6 kph	11.2 kph
60 kg/ha	1J4	1G7	1J6	1M4
110 kg/ha	1J7	1K7	1N6	11G2

**NOTE:** Variations in density, fluidity and atmospheric conditions may produce differences in output. Always calibrate to check correct output (see instruction book). Adjust gearbox as required. (One gear change gives approximately 6% output change). One hectare at 12m effective spread width is covered in 833m.

**3. Amazone Jet 1204/F and 1504/F Applicator****Metering rollers:** Fertiliser.

Refer to Manufacturer's Instruction Manual for calibration procedures.

**B) Gravity Flow Machines****1. Horstine Farmery Microband**

As fitted to stone separators, rotor cultivators, etc., applying with 9" fishtails each spreading across a 12" (30.4cm) band.

**Important**

If the fishtails are at slightly different centres other than 30.4cm, the overall rates will need adjusting slightly e.g.;

10 fishtails on a 3 metre machine = 30cm spread per fishtail.

6 fishtails on a 1.83 metre (72") machine = 30.5 cm spread per fishtail.

12 fishtails on 4 metre machine = 33.3 cm per fishtail.

Refer to the Applicator Manufacturer's Instruction Manual for calibration procedures.

ROTOR AND DRIVE SETTINGS	MOCAP 10G DOSE RATE		
		60 kg/ha	110 kg/ha
15mm rotor (1 per outlet)	Chain Drive	31T driving a 25T	Not possible
15mm rotor (1 per outlet)	Pulley Drive	5" driving a 4"	Not possible
23mm rotor (1 per outlet)	Chain Drive	19T driving 22T	34T driving 22T
23mm rotor (1 per outlet)	Pulley Drive	4.5" driving a 5"	7" driving a 4.5"
14mm deep-flute (1 per outlet)	Chain Drive	19T driving 34T	23T driving 22T
14mm deep-flute (1 per outlet)	Pulley Drive	4" driving a 7"	4" driving a 4"

## SAFETY PRECAUTIONS

### Operator Protection

Ethoprophos is an anticholinesterase organophosphorus compound. **DO NOT USE** if under medical advice **NOT** to work with such compounds.

Vehicles fitted with a closed cab must be used both when making applications and when incorporating the product.

**WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT** when handling the product.

**WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT** when handling contaminated surfaces.

**WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS)**, during granule placement by tractor drawn/mounted apparatus.

**AVOID ALL CONTACT BY MOUTH.**

**DO NOT BREATHE DUST.**

**WASH ALL PROTECTIVE CLOTHING** thoroughly after use, especially the insides of gloves.

**TAKE OFF IMMEDIATELY** all contaminated clothing.

**WASH DUST** from skin and eyes immediately.

**WHEN USING DO NOT EAT, DRINK OR SMOKE.**

**WASH HANDS AND EXPOSED SKIN** before eating, drinking or smoking and after work.

**IF YOU FEEL UNWELL**, seek medical advice, (show the label where possible).

### Consumer Protection

**DO NOT HARVEST CROPS FOR HUMAN OR ANIMAL CONSUMPTION FOR AT LEAST 10 WEEKS AFTER APPLICATION.**

### Environmental Protection

**DANGEROUS TO LIVESTOCK.** Keep all livestock out of treated areas for at least 13 weeks following treatment. Bury or remove spillages.

**DANGEROUS TO GAME, WILD BIRDS AND ANIMALS.** Granules must be covered completely after application. Ensure incorporation of granules post-application. Bury or remove spillages.

**DO NOT CONTAMINATE SURFACE WATERS OR DITCHES** with chemical or used container.

**Storage and Disposal**

- KEEP OUT OF REACH OF CHILDREN.**
- KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.**
- KEEP CONTAINER TIGHTLY CLOSED.**
- KEEP ONLY IN THE ORIGINAL CONTAINER.**

**READ ALL INSTRUCTIONS CAREFULLY BEFORE USE.**

**Medical advice****Symptoms of poisoning**

These may include excessive sweating, headache, weakness, faintness and giddiness, nausea, stomach pains, vomiting, small pupils, blurred vision, muscle twitching.

**FIRST AID**

If any of the above symptoms occur, particularly if there is known contamination:

**STOP WORK.**

Remove contaminated clothing. Wash exposed skin and hair.

Prevent all exertion.

Call doctor **AT ONCE** and show the doctor this leaflet.

**GUIDE TO DOCTOR**

This product contains an anticholinesterase organophosphorus compound.

**Specific Treatment**

**IN ALL CASES AND AS EARLY AS POSSIBLE** inject atropine sulphate 2 mg (or pro rata for children) and repeat if necessary every 30 minutes until fully atropinised.

**Other Measures**

1. Keep airway clear.
2. Watch respiration intubation with endotracheal tube or tracheotomy may be necessary in conjunction with artificial ventilation.
3. Put patient at complete rest in hospital for 24 hours at least.

**Confirmation of Diagnosis**

By estimating cholinesterase activity (5 ml blood, unhaemolysed collected in an anticoagulant).

Further advice from: Bayer CropScience Ltd or nearest National Poisons Information Centre.

**ALL INSTRUCTIONS MUST BE READ BEFORE USE.**

## RISK AND SAFETY INFORMATION

### MOCAP 10G

Contains 10% w/w ethoprophos.



**TOXIC**



**DANGEROUS  
FOR THE  
ENVIRONMENT**

**HARMFUL IF SWALLOWED.  
TOXIC IN CONTACT WITH SKIN.  
MAY CAUSE SENSITISATION BY SKIN CONTACT.  
KEEP OUT OF REACH OF CHILDREN.  
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.  
TOXIC TO AQUATIC ORGANISMS; MAY CAUSE LONG-TERM ADVERSE EFFECTS  
IN THE AQUATIC ENVIRONMENT.**

S24 AVOID CONTACT WITH SKIN.

S35 THIS MATERIAL MUST BE DISPOSED OF IN A SAFE WAY.

S37 WEAR SUITABLE GLOVES.

S45 IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW  
CONTAINER OR LABEL.

S57 USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL  
CONTAMINATION.

Avoid contamination of the environment; refer to special instructions for removal or  
burial of granules.

To avoid risks to man and the environment, comply with the instructions for use.

### PACK SIZE

15 kg