

# CLAYTON MITREX

MAPP 11921

contains 70 % w/w metamitron in water dispersible granules

For the control of certain weeds in sugar beet, fodder beet, red beet and mangels.



IRRITANT

May cause sensitisation by skin contact  
Risk of serious damage to eyes



DANGEROUS FOR THE ENVIRONMENT

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

The Control of Substances Hazardous to Health (COSHH) Regulations may apply to the use of this product at work.

**COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED ❖ IS A LEGAL REQUIREMENT**

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL HERBICIDE

<b>Crops:</b>	Sugar beet, fodder beet, red beet, mangels.
<b>Maximum individual dose:</b>	5 kg product per ha
<b>Maximum total dose:</b>	15 kg product per ha per crop

**READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE**

## **SAFETY PRECAUTIONS**

### **Operator protection**

- ❖ Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.
- ❖ WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
- ❖ WEAR SUITABLE FACE PROTECTION (FACESHIELD) when applying by hand-held equipment.
- ❖ However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

AVOID ALL CONTACT WITH SKIN AND EYES.

DO NOT BREATHE SPRAY.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.

### **Environmental protection**

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

### **Storage and disposal**

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

KEEP OUT OF THE REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

This material and its container must be disposed of in a safe way.

EMPTY CONTAINER COMPLETELY and dispose of safely.

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

Safety data sheet available for professional user on request.

**Clayton Plant Protection (UK) Ltd.,  
Unit F10  
Bracetown Business Park  
CLONEE  
Co. Meath  
Ireland.**

Contents: **5 kg**

PROTECT FROM FROST

Tel: (00 353) 1 8210127

Batch No:

This product is approved under the Control of Pesticides Regulations 1986.

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains metamitron). UN 3077, Class 9, Packing group III
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**Conditions of Supply:** all goods supplied by us are of high quality and we believe them to be correct but, as we cannot exercise control over their storage, handling, mixing or use, or weather conditions before, during and after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded, and no responsibility will be accepted by us or resellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

## 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.**

### USAGE

Clayton Mitrex is a contact and residual herbicide recommended for use on all varieties of sugar beet, fodder beet and mangels both before and after crop emergence and in conventional full-dose or repeat low-dose programmes. No more than 15 kg product per ha should be applied to any one crop.

### SOILS AND SOIL CONDITIONS

Sugar beet growing on all soil types, except *Sands*, may be treated. Residual activity is progressively reduced on soils containing more than 5 % organic matter. A firm, fine seedbed is essential for optimum residual weed control. Adequate moisture is necessary to activate metamitron in the surface soil for residual activity. Efficacy will be reduced when the soil is dry.

The residual activity, primarily in relation to mineral soils, depends upon the total amount of metamitron applied in the course of a spray programme. It is therefore necessary to apply the full programme of sprays, particularly when employing low-dose applications, to gain maximum advantage from the product's residual properties.

### CROP AND WEATHER CONDITIONS

Clayton Mitrex should only be applied to vigorous crops that are not under stress. Delay application of mixtures with phenmedipham until later in the day, e.g. after 5 p.m., if the air temperature is over 21°C (70°F) on the day of spraying.

### STRESS FACTORS

Application to a crop under any growing stress such as drought, waterlogging, wind or frost, high temperatures, high light intensity, physical damage, pesticide toxicity, improper nutrition, soil acidity, pest or disease attack or other disorder may cause a further check to growth and reduction of yield. Stressed crops should not be treated until the stresses have been relieved and the crop is growing normally.

### CONVENTIONAL FULL-DOSE TREATMENTS

For use on mineral soils, except the *Sands* category, with less than 10 % organic matter.

Time of application	Dose	Treatment advice
Before sowing to before crop emergence.	5 kg/ha	If applied before sowing, lightly harrow into the upper 2.5 cm (1") of the seedbed. Apply before any weeds grow beyond the early cotyledon stage.
After crop emergence when the beets have at least 2 true-leaves, each 12 mm (½") long.	5 kg/ha	Normally apply before any weeds grow beyond the cotyledon stage. The addition of adjuvant oil ADJ 0126 will help to improve the control of weeds up to 1-2 true-leaves.

### REPEAT LOW-DOSE PROGRAMME FOR MINERAL SOILS

For use on mineral soils, except the *Sands* category, with less than 10 % organic matter - see SOILS AND SOIL CONDITIONS.

Time of application	Dose	Treatment advice
Before sowing to before crop emergence.	3 kg/ha	If applied before sowing, lightly harrow into the upper 2.5 cm (1") of the seedbed. Apply before any weeds grow beyond the early cotyledon stage.
When each flush of weeds is at the early cotyledon stage.	1.7 kg/ha plus adjuvant oil ADJ 0126 at 1.7 l/ha	The crop may be at any growth stage for this dose rate. Normally about 3 low-dose sprays are required following the initial pre-emergence treatment. If black-bindweed is a problem, a tank-mixture with phenmedipham can be substituted for one of these sprays – see below.

Tank-mixture with phenmedipham

1.5 kg/ha plus 1.8 l/ha phenmedipham MAFF 07248.

The weeds may be up to the fully expanded cotyledon stage. The crop must have at least the first pair of true-leaves each 1 cm long before using this mixture.

## REPEAT LOW-DOSE PROGRAMME FOR ORGANIC SOILS

For soils with 10 % or more organic matter - see SOILS AND SOIL CONDITIONS.

Time of application	Dose	Treatment advice
Before sowing to before crop emergence.	-	No practicable recommendation.
When each flush of weeds is at the early cotyledon stage.	1.7 kg/ha plus adjuvant oil ADJ 0126 at 1.7 l/ha	The crop may be at any growth stage for this dose rate. Normally about 5-6 low-dose sprays are required. <ul style="list-style-type: none"><li>• If for any reason weeds become too advanced for one of these sprays, a higher dose can be substituted provided the crop is sufficiently advanced – see <b>1</b> below.</li><li>• If black-bindweed is a problem, a tank-mixture with phenmedipham can be substituted for one of these sprays – see <b>2</b> below.</li></ul>

### 1 Higher dose

2.5 kg/ha Clayton Mitrex plus 2.5 l/ha adjuvant oil ADJ 0126.

The weeds may be up to the one true-leaf stage.

The crop must have at least 2 true-leaves, each 12 mm ( $\frac{1}{2}$ " ) long before using this mixture.

### 2 Tank-mixture with phenmedipham

1.5 kg/ha Clayton Mitrex plus 1.8 l/ha phenmedipham MAFF 07248.

The weeds may be up to the fully expanded cotyledon stage.

Do not apply this mixture within 5 days, before or after, of any other treatment.

The crop must have at least the first pair of true-leaves each 1 cm long before using this mixture.

Metric	1 l/ha	1.5 kg/ha	1.7 kg/ha	2.5 kg/ha	3 kg/ha	5 kg/ha
Imperial	14 fl.oz/ac	21 oz/ac	24 oz/ac	36 oz/ac	42 oz/ac	72 oz/ac

## COMPATIBILITY FOR CO-APPLICATION

Clayton Mitrex is compatible for co-application in tank-mixture with the following approved herbicides. Comply with the Directions for Use of the partner product and of this label. Mix Clayton Mitrex in the spray tank first.

Adjuvant oil	ADJ 0126
Ethofumesate	MAFF 07266
Phenmedipham	MAFF 07248

## APPLICATION

### Repeat low-dose treatments

Apply in 80-100 l/ha (7-9 gal/ac) water as a FINE spray (BCPC) using appropriate 110° flat fan nozzles at 2.5-5.5 bar (35-80 psi). Avoid spray drift; liability to drift is increased by the FINE spray requirement.

### Full-dose treatments

Apply in 225 l/ha (20 gal/ac) water as a MEDIUM spray (BCPC).

- Do not use filters finer than 80 mesh.
- Do not exceed 8 kph (5 mph) when spraying.

## SPRAY MIXING AND USE

Part-fill the spray tank with clean water and put under agitation. Slowly pour in the required amount of Clayton Mitrex through the top aperture or filling device. Top up the tank with water and keep under agitation until sprayed out. When co-applying with a compatible product, add each separately to the spray tank, mixing Clayton Mitrex in the spray tank first unless directed otherwise. Use immediately after mixing.

## PROCESSED CROPS

Consult processors before treating red beet being grown for processing.

## SUCCEEDING CROPS

No crop other than sugar beet, fodder beet, mangels or red beet may be planted within 4 months of the last application of Clayton Mitrex. Winter cereals may be sown 4 months after last application of Clayton Mitrex and any crop may be sown or planted in the following spring. Mould-board ploughing at least 15 cm (6") deep must precede the sowing of any non-beet crop. Check also on the planting intervals of any other herbicides that may have been used in the same programme.

## WEED CONTROL

Under optimum conditions for growth and application, weed susceptibility to Clayton Mitrex at the cotyledon stage, is indicated as follows:

Charlock	MS	Marigold, corn	S
Chickweed, common	S	Mayweed, scentless	S
Fat-hen	S (pre-em)	Meadow-grass, annual	S (pre-em)
	MS (post-em)		MS (post-em)
Field-speedwell, common	S	Nettle, small	S
Fumitory, common	MS	Penny-cress, field	S
Groundsel	S (pre-em)	Poppy, common	S
	MS (post-em)	Shepherd's-purse	S
Knotgrass	S (pre-em)	Spurrey, corn	S
	MS (post-em)	Redshank	MS
Black-bindweed	MR	Pimpernel, scarlet	MR-R
Cleavers	R	Radish, wild	MR-R
Nightshade, black	MR-R	Wild-oat	R

S = Susceptible

MS = Moderately Susceptible

MR = Moderately Resistant

R = Resistant

## EQUIPMENT MAINTENANCE

Ensure that the spraying equipment is clean before use and is free of previous pesticide residues. Immediately after use wash the spraying machine and all utensils thoroughly with clean water and a wetting agent recommended for the cleaning of application equipment. Traces of herbicide left in the sprayer may result in damage to other crops.

## SOIL CATEGORIES Soil Texture (85 system)

<b>Sands</b>	<b>Very Light Soils</b>	<b>Light Soils</b>	<b>Medium Soils</b>	<b>Heavy Soils</b>
Coarse sand	Loamy sand	Sandy loam	Sandy clay loam	Sandy clay
Sand	Loamy fine sand	Fine sandy loam	Clay loam	Clay
Fine sand	Coarse sandy loam	Sandy silt loam	Silty clay loam	Silty clay
Loamy coarse sand		Silt loam (85)		