

# CLAYTON MAZARAC

MAPP 11161

a suspension concentrate containing 375 g/l metazachlor and 125 g/l quinmerac

**For the control of certain annual grass and broad-leaved weeds in winter oilseed rape.**



**IRRITANT**

**May cause sensitisation by skin contact**



**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 the 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 HERBICIDE

<b>Crop:</b>	winter oilseed rape
<b>Maximum total dose:</b>	2 litres product per ha per crop
<b>Latest time of application:</b>	end-January in the year of harvest

**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 GLOVES when handling the concentrate or when handling contaminated surfaces.
- ❖ 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.

WASH CONCENTRATE from skin or eyes immediately.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

DO NOT BREATHE SPRAY.

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

### Environmental protection

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

- ❖ KEEP LIVESTOCK OUT of treated areas until poisonous weeds, such as ragwort, have died and become unpalatable.
- ❖ This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with PSD published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.
- ❖ DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 metre of the top of a ditch which is dry at the time of application. Aim spray away from water.

### Storage and disposal

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

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

- ❖ DO NOT RE-USE CONTAINER for any purpose.

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

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of the container 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 litres**  
SHAKE THOROUGHLY BEFORE USE

PROTECT FROM FROST

Tel: (00 353) 1 8210127

Batch No:

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

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains metazachlor). UN 3082; 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.

Clayton Mazarac is taken up from the soil solution by the roots of weeds. Soil moisture is essential for activity.

### TREATMENT OF WINTER OILSEED RAPE

Apply either pre-emergence or post-emergence as appropriate to the conditions.

#### PRE-EMERGENCE APPLICATION

Situations treatable	Dose and timing	Remarks
✓ LIGHT, MEDIUM and HEAVY soils.	2 l/ha in at least 220 l/ha water (28 fl.oz/ac in at least 20 gal/ac).	Usually gives best overall results if qualifying conditions can be met.
✓ seed drilled 15 mm deep and covered		
✓ firm, fine, moist seedbed	Spray after drilling and before crop germination; this could be no more than 48 hours after drilling when the soil is warm and moist.	
<b>Exclusions</b>		
* not SANDS or VERY LIGHT soils		
* not stony soils		
* not organic soils #		
* not broadcast crops		
* not late drilled *		

#### POST-EMERGENCE APPLICATION

Situations treatable	Dose and timing	Remarks
✓ LIGHT, MEDIUM and HEAVY soils	2 l/ha in at least 220 l/ha water (28 fl.oz/ac in at least 20 gal/ac).	Normally not as effective as pre-emergence treatment, but can be used in a wider range of situations.
✓ firm, fine, moist seedbed		
<b>Exclusions</b>		
* not SANDS or VERY LIGHT soils	Spray as soon as possible after the crop has fully expanded cotyledons.	
* not organic soils #	Do not spray later than 31st January.	

\* usually after about 7 September in northern England and Scotland to about 14 September in southern England.

# soils with greater than 10% organic matter

## CAUTIONS

High transpiration rates leading to high uptake of herbicide or too much herbicide in the soil solution in the root zone of the germinating crop may lead to reduced seedling vigour or loss of plants; this situation can also arise on stony or brash soils owing to rapid transfer of herbicide to the crop root zone. The main factors leading to phytotoxicity and ways of avoidance are listed:

Heavy rain	<i>Avoid or delay a pre-emergence application if heavy rain is forecast.</i>
Excessive irrigation	<i>Limit irrigation to 10 mm per application.</i>
Insufficient soil cover	<i>Drill accurately to 15 mm depth measured after firming. Harrow after drilling; harrow direct drilled crops across the line of drilling to ensure coverage of the seed before spraying. Treat broadcast sown crops only post-emergence when firmly established.</i>
Inadequate consolidation	<i>Roll poorly consolidated seedbeds after drilling but before spraying.</i>
Soil of too low adsorbency	<i>Classify soil accurately and follow the recommendations. Soils are classified as per ADAS Soil Textures (85 system).</i>

Favourable conditions for vigorous crop growth e.g. adequate soil nutritional status, appropriate pH, sound drainage, lack of soil compaction, absence of pests and diseases, are required before treatment; do not treat if these conditions are not met.

Some leaf scorch may occur following application in frosty weather. Do not apply during frosty weather or if frost is forecast, especially if another product is to be applied in tank-mix also. Do not treat crops under moisture stress or suffering wilting.

## MIXING AND APPLICATION

Shake the container thoroughly before use. Half-fill the sprayer tank with clean water. With the contents of the spray tank under agitation, add the required quantity of Clayton Mazarac. Maintain agitation whilst topping up the tank to the required level and until the completion of spraying. Spray immediately after mixing. Apply as a MEDIUM spray (BCPC definition). Do not use filters finer than 50 mesh. Avoid overlapping spray swaths. Avoid spray drift.

## CULTIVATIONS AFTER APPLICATION

Cultivations after application should be avoided.

## SUCCEEDING CROPS

**After full-term winter oilseed rape:** ploughing 15 cm (6") deep is necessary before the sowing of crops other than cereals. No limitations are applied on the sowing of cereal crops.

**Crop failure after an autumn or winter application:** plough 15 cm (6") deep. The sowing of any replacement crop in the autumn or winter is not recommended. Only spring barley, spring field beans or potatoes are permitted as spring-sown replacement crops.

## WEED CONTROL

Susceptibility of weeds to Clayton Mazarac under conditions specified for application.

		<b>Latest indication</b>
Black-grass	S	pre-emergence
Chickweed, common	S	to cotyledons
Cleavers	S	2 whorls
Crane's-bill, cut-leaved	MR	pre-emergence
Dead-nettle, red	S	pre-emergence
Field-speedwell, common	S	to 2 leaves
Forget-me not, field	S	pre-emergence
Fumitory, common	R	-
Groundsel	S	pre-emergence
Hemp-nettle, common	R	-
Knotgrass	R	-
Mayweed spp.	S	to 4 true-leaves
Meadow-grass, annual	S	pre-emergence
Parsley-piert	S	pre-emergence
Poppy, common	S	2 leaves
Shepherd's-purse	S	pre-emergence

S = susceptible

MS = moderately susceptible

MR = moderately resistant

R = resistant

Strains of some annual grasses, e.g. black-grass, wild-oat and Italian rye-grass, have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

## CLEANING OF EQUIPMENT

After each days use thoroughly clean all equipment with water and a cleaning agent recommended for the cleaning of sprayers.

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