

CLAYTON METAZACHLOR 50SC

MAPP 11719

Contains 500 g/l metazachlor as a suspension concentrate

For the control of certain annual grass and broad-leaved weeds in winter and spring oilseed rape, broccoli, Brussels sprouts, cabbage, calabrese, cauliflower, swedes and turnips.



HARMFUL

**Harmful if swallowed
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 this product at work.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL HERBICIDE

Crop	Maximum individual dose of product	Maximum number of applications	Maximum total dose of product	Latest time of application
Winter oilseed rape	1.5 l/ha	-	2 l/ha per crop	Before 1 February in the year of harvest
Spring oilseed rape	1.5 l/ha	One per crop	-	Before 10 true leaves
Broccoli Brussels sprouts Cabbage Calabrese Cauliflower	1.5 l/ha	One per crop	-	Six weeks before harvest
Swede Turnip	1.5 l/ha	One per crop	-	Pre-emergence of the crop

Other specific restrictions:

A maximum total dose of 1.0 kg metazachlor/hectare may only be applied every third year on the same field.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

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 AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when applying the product through a knapsack sprayer.

WEAR SUITABLE PROTECTIVE GLOVES when handling the spray boom or adjusting nozzles.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

Wear suitable gloves and eye/face protection.

Avoid contact with skin and eyes.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

TAKE OFF IMMEDIATELY all contaminated clothing.

DO NOT BREATHE SPRAY.

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

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

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

In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

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.

KEEP LIVESTOCK OUT of treated areas of swede and turnip for at least five weeks following treatment.

Storage and disposal

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

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

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

DO NOT RE-USE CONTAINER for any purpose.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank, and dispose of safely.

LERAP Category: unclassified

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.
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CLONEE, Co. Meath
Ireland.
Tel: (00 353) 1 8210127

Contents: **5 litres**

PROTECT FROM FROST
SHAKE THOROUGHLY BEFORE USE
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 Metazachlor 50SC is taken up from the soil solution by the roots of weeds, thus soil moisture is essential for activity.

High transpiration rates leading to high uptake of metazachlor or too much metazachlor 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 metazachlor 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 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.

TREATMENTS FOR WINTER OILSEED RAPE

Apply Clayton Metazachlor 50SC as one element in a comprehensive weed control programme either pre-crop emergence or post-crop emergence as appropriate to the conditions.

Pre-emergence treatment

Situations treatable	Dose and timing	Remarks
✓ LIGHT, MEDIUM and HEAVY soils.	1.5 l/ha in at least 110 l/ha water.	Usually gives best overall results if qualifying conditions can be met.
✓ seed drilled 15 mm deep and covered	Spray after drilling and before crop germination; this could be no more than 48 hours after drilling when the soil is warm and moist.	Late drilled: usually after about 7 September in northern England and Scotland to about 14 September in southern England.
✓ firm, fine, moist seedbed		
Exclusions		
✗ not SANDS or VERY LIGHT soils		
✗ not organic soils #		
✗ not broadcast crops		
✗ not late drilled		

Post-emergence treatment

Situations treatable	Dose and timing	Remarks
✓ LIGHT, MEDIUM and HEAVY soils	1.5 l/ha in at least 220 l/ha water.	Normally not as effective as a pre-emergence treatment, but can be used in a wider range of situations.
✓ firm, fine, moist seedbed	Spray as soon as possible after the crop has fully expanded cotyledons but before weed emergence.	
Exclusions		
✗ not SANDS or VERY LIGHT soils	Do not spray later than 31st	
✗ not organic soils #	January.	

Organic soils: soils with greater than 10% organic matter

SPRING OILSEED RAPE, SWEDES, TURNIPS

Apply Clayton Metazachlor 50SC as one element in a comprehensive weed control programme.

Situations treatable	Dose and timing	Remarks
✓ LIGHT, MEDIUM and HEAVY soils	1.5 l/ha in 220-450 l/ha water.	If the ideal seed bed was not attained make some compensation by using the highest recommended volume of water.
✓ seed drilled 15 mm deep and covered	Swedes and turnips Spray after drilling and before crop germination; this could be no more than 48 hours after drilling when the soil is warm and moist.	
✓ firm, fine, moist seedbed	Spring oilseed rape Spray as soon as the crop has two fully expanded cotyledons before weed emergence. Do not spray after the crop has 10 true leaves.	
Exclusions		
✗ not SANDS or VERY LIGHT soils		
✗ not organic soils #		
✗ not broadcast crops		

soils with greater than 10% organic matter

TRANSPLANTED CROPS OF BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CALABRESE, CAULIFLOWER

Apply Clayton Metazachlor 50SC as one element in a comprehensive weed control programme.

Situations treatable	Dose and timing	Remarks
✓ LIGHT, MEDIUM and HEAVY soils	1.5 l/ha in 220-450 l/ha water.	Roots of the transplants must be well covered and firmed. Do not treat if these conditions are not met or if the plants are wilting. If the ideal planting bed was not attained make some compensation by using the highest recommended volume of water. Do not treat during periods when cold nights follow warm days. Transplants grown in modules or blocks may be more susceptible to herbicide damage on account of their soft growth; proceed cautiously and treat a small area initially to assess their reaction.
✓ firm, fine, moist seedbed	Spray before weed emergence when the crop has become established, acclimatised and fully hardened. Irrigate if necessary to aid establishment and promote efficacy. Do not spray later than 6 weeks before harvest.	
Exclusions		
✗ not SANDS or VERY LIGHT soils		
✗ not organic soils #		
✗ not crops under glass or polythene		

soils with greater than 10% organic matter

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 Metazachlor 50SC. 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.

PROCESSED CROPS

Consult the processor before treating a crop destined for processing.

CULTIVATIONS AFTER APPLICATION

Cultivations after application should be avoided.

SUCCEEDING CROPS

After full-term winter oilseed rape: no restrictions

After a spring crop: plough 15 cm (6") deep before re-cropping.

Crop failure after an autumn/winter application: plough 15 cm (6") deep. Sow in the same season only with winter wheat (not durum) or winter barley; if sowing in the spring, sow spring wheat (not durum) or barley, maize, field beans, peas, potatoes, linseed or any brassica.

WEED CONTROL

Indicated weed susceptibility to Clayton Metazachlor 50SC under conditions specified for application:

	Clayton Metazachlor 50SC at 1.5 l/ha applied pre-emergence of the weed
Black-grass	S
Dead-nettle, red	S
Forget-me not, field	S
Groundsel	S
Mayweed spp.	S
Meadow-grass, annual	S
Parsley-piert	S
Poppy, common	MS
Shepherd's-purse	S
Speedwell spp.	S

S = susceptible

MS = moderately susceptible

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.
