

## CLAYTON CHROME 360

Contains 360 g/litre (30.3 % w/w) clomazone in a capsule suspension. A residual herbicide for the control of a range of annual broad-leaved weeds in winter oilseed rape, potatoes, carrots, vining peas, spring combining peas, spring field beans, winter and spring field beans. **MAPP 19359**

Clayton Chrome – contains 360 g/litre (30.3% w/w) clomazone.  
To avoid risks to man and the environment, comply with the instructions for use.  
**The Control of Substances Hazardous to Health (COSHH) Regulations may apply to the use of this product at work.**

<b>IMPORTANT INFORMATION : FOR USE ONLY AS AN AGRICULTURAL HERBICIDE</b>			
Crops	Maximum individual dose of product	Maximum total dose of product	Latest time of application
Winter oilseed rape Winter field beans	0.33 l/ha	0.33 l/ha per crop	Pre-emergence of crop
Potatoes, combining peas (spring, vining peas, field beans (spring, carrots.	0.25 l/ha	0.25 l/ha per crop	Pre-emergence of crop
<b>Other specific restrictions</b>			
Do not treat two consecutive crops of carrots with any product containing clomazone in one calendar year.			
<b>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.</b>			

### 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 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 CONTACT WITH SKIN.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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

#### Environmental protection

Do not contaminate water with the product or its container.

Do not clean application equipment near surface water.

Avoid contamination via drains from farmyards and roads.

TO PROTECT NON-TARGET PLANTS RESPECT AN UNTREATED BUFFER ZONE OF 10 METRES TO NON-CROP LAND

#### 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.

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 human health and the environment, comply with the instructions for use.**

<p><b>Approval Holder :</b>  <b>Clayton Plant Protection Ltd.</b>  <b>Bracetown Business Park</b>  <b>CLONEE, Dublin 15</b>  <b>Ireland.</b>                  Tel: (00 353) 1 8210127                  Email: <a href="mailto:info@claytonpp.com">info@claytonpp.com</a>  <a href="http://www.claytonpp.com">www.claytonpp.com</a>  <b>Marketed in the UK by : Clayton Plant Protection UK Ltd.</b>                  Address as above.</p>	<p><b>Contents: 1 litre e</b></p> <p>PROTECT FROM FROST SHAKE THOROUGHLY BEFORE USE</p> <p><b>UN no :-</b> Not classified as hazardous</p> <p>Batch No</p>
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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.**

### GENERAL INFORMATION

Clayton Chrome is a novel microcapsule suspension formulation of clomazone. It is a residual herbicide for use in all varieties of oilseed rape, potatoes, combining pea (spring), vining pea, winter and spring field beans, and carrots for application to the soil prior to crop and weed emergence. Clomazone acts by blocking the synthesis of certain essential plant pigments, including those required for photosynthesis. Susceptible weeds absorb clomazone during germination and emerge with bleached or discoloured leaves and die shortly after emergence.

### WARNINGS AND RESTRICTIONS

**CROPS EMERGED AT THE TIME OF APPLICATION MAY BE SEVERELY DAMAGED.**

**EXTREME CARE MUST BE TAKEN TO AVOID SPRAY DRIFT** to avoid severe damage or complete destruction of plants outside the target area.

**DO NOT APPLY** under windy conditions.

**DO NOT ALLOW SPRAY SWATHS TO OVERLAP** as crop damage may occur.

Do not apply to broadcast crops.

Do not cultivate after application.

Do not use on sands, very light soils or on soils with more than 10% organic matter content or on any soil with poor or compacted soil structure or that is subject to waterlogging.

A reduced level of weed control may result if a prolonged dry period follows application.

Weed control is likely to be unsatisfactory if application is made to dry cloddy seedbeds.

Under certain climatic conditions, some transient discolouration of the crop foliage may occur, which can be particularly severe if heavy rain falls soon after application. These transient symptoms are quickly outgrown and have no adverse effect on crop yield.

Trace amounts of Clayton Chrome remaining in the sprayer after use can cause damage to other crops subsequently treated with the same equipment. Immediately after use thoroughly clean the sprayer and all equipment as detailed in the section "SPRAYER DECONTAMINATION".

The safety of Clayton Chrome to potato daughter tubers has not been tested, consult the manufacturer or your advisor before using on seed crops.

Contract agents should be consulted before using on crops grown for seed.

Effects on processed crops have not been established.

Consult processor before using Clayton Chrome on crops intended for processing.

There is a risk to adjacent crops and non-crop vegetation from the volatilisation of Clayton Chrome. This may result in damage/bleaching to neighbouring vegetation. **If effects are seen they must be reported via the [Stewardship Programme](#).** Please contact your crop protection distributor or adviser.

### RESISTANCE MANAGEMENT

There is a moderate risk for the development of weed resistance to Clayton Chrome. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures and alternating the use of Clayton Chrome with other herbicides with a different mode of action and a similar spectrum of activity. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor or crop adviser.

Implement a weed resistance strategy based on Good Agricultural Practice and including the following:

- Follow the label recommendations.

- Adopt complementary weed control practices.

- Minimise the risk of spreading weed infestations.

- Implement good spraying practice to maintain effective weed control.

Use the correct spray nozzles to maximise coverage.

Apply only under appropriate weather conditions.

Monitor herbicide performance and report any unexpected results to your distributor, adviser or Clayton Plant Protection UK Ltd.

### APPLICATION

Before use, make sure the spraying equipment is cleaned from any previous use and that it is calibrated to apply the recommended spray volume and pressure.

After use, make sure the sprayer and all equipment are thoroughly cleaned as detailed in the section "SPRAYER DECONTAMINATION". Apply in 200-400 litres of water per hectare as a COARSE spray (BCPC).

Do not allow the spray boom to bounce or yaw, and ensure an even coverage of the soil surface.

## **MIXING**

Half fill the sprayer tank with clean water and begin gentle agitation. Add the required quantity of product into the sprayer tank and allow to disperse fully. Rinse the empty containers thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add the washings to the sprayer and continue agitation whilst topping up the tank with water to the required level. Continue agitation until the mix is sprayed out. Spray immediately after mixing, do not allow the mixture to stand in the sprayer.

## **WEEDS CONTROLLED**

The following weeds are susceptible to a pre-emergence application of Clayton Chrome at the recommended rate:

- Cleavers
- Common Chickweed
- Red dead-nettle
- Shepherd's Purse
- Fat-hen (moderately susceptible)

## **CROP RECOMMENDATIONS**

### **Winter Oilseed Rape**

Apply to moist level seedbeds that are of a fine tilth and free from clods. Loose or puffy seedbeds should be consolidated by rolling or other cultivations prior to application.

The seed should be covered by at least 20mm (3/4 inch) of soil to ensure adequate crop safety. Where a crop has been direct-drilled, the drill slits must be closed by harrowing across the direction of drilling prior to application. Where direct drilled crops are treated then ploughing and cultivating to a depth of 15 cm must take place before the planting of any subsequent crop.

Do not apply to broadcast crops.

Clayton Chrome may be used on all varieties of winter oilseed rape.

Apply as soon as possible after sowing the crop and before emergence of crop and weeds.

Apply 0.33 litres per hectare in 200-400 litres as a COARSE spray (BCPC).

Do not allow the spray boom to bounce or yaw, ensure an even coverage of the soil surface.

### **Field Bean (winter)**

Apply to crops on level seedbeds that are of a fine tilth and free from clods.

Loose or puffy seedbeds should be consolidated by rolling or other cultivations prior to application.

The seed should be covered by at least 20mm (3/4 inch) of soil to ensure adequate crop safety.

Where crops are direct drilled they should be cultivated before application to close the slits and cover the seed.

Clayton Chrome may be used pre-emergence of crop and weeds on all varieties of field bean (winter).

Apply as soon as possible after sowing and before emergence of the crop and weeds.

Apply 0.33 litres per hectare in 200-400 litres as a COARSE spray (BCPC).

Do not allow the spray boom to bounce or yaw, ensure an even coverage of the soil surface.

### **Potatoes**

Apply to crops on level seedbeds that are of a fine tilth and free from clods.

Loose or puffy seedbeds should be consolidated by rolling or other cultivations prior to application.

The seed potatoes should be covered by at least 20mm (3/4 inch) of soil to ensure adequate crop safety.

Clayton Chrome may be used pre-emergence of crop and weeds on all varieties of potatoes.

Apply as soon as possible after the last ridging operation and before the soil starts to crack (usually about 7 days before emergence).

Apply 0.25 litres per hectare in 200-400 litres as a COARSE spray (BCPC).

Do not allow the spray boom to bounce or yaw, ensure an even coverage of the soil surface.

### **Carrot, combining pea (spring), vining pea, field bean (spring)**

Apply to crops on level seedbeds that are of a fine tilth and free from clods.

Loose or puffy seedbeds should be consolidated by rolling or other cultivations prior to application.

The seed should be covered by at least 20mm (3/4 inch) of soil to ensure adequate crop safety.

Where crops are direct drilled they should be cultivated before application to close the slits and cover the seed.

Clayton Chrome may be used pre-emergence of crop and weeds on all varieties of carrot, vining pea, combining pea (spring), and field bean (spring).

Apply as soon as possible after sowing and before emergence of the crop and weeds.

Apply 0.25 litres per hectare in 200-400 litres as a COARSE spray (BCPC).

Do not allow the spray boom to bounce or yaw, ensure an even coverage of the soil surface.

Do not treat two consecutive crops of carrots with any product containing clomazone in one calendar year.

**FOLLOWING CROPS**

After normal harvest of any crop treated with Clayton Chrome, the soil must be ploughed and cultivated to a depth of at least 15cm prior to planting any of the following crops listed below:

Cereals, oilseed rape, field beans, potatoes, combining peas, maize, linseed, sugar beet, turnips.

Do not plant any following crop not listed above in the season immediately following a crop treated with Clayton Chrome.

**REPLACEMENT CROPS**

In the event that a crop treated with Clayton Chrome should fail for any reason, observe the restrictions listed in this section to determine the crops that may be planted as a replacement for the failed crop. Prior to re-sowing or planting any listed crop following failure of a treated crop, the soil must be ploughed and cultivated to a depth of at least 25cm.

**Autumn Treated Failed Crops (i.e. Winter Oilseed Rape, Field Bean (winter))**

Time of Sowing/Planting Replacement Crop	Approved Replacement Crops	Restrictions
Autumn/Winter	Winter cereals Winter field beans	At least 6 weeks must have elapsed since treatment of the failed crop
Spring	Combining peas Field beans Potatoes	At least 6 weeks must have elapsed since treatment of the failed crop
	Spring cereals Maize Onion Carrots Linseed Turnips	At least 7 months must have elapsed since treatment of the failed crop

Do not sow or plant any replacement crop not listed above in the season immediately following a crop treated with Clayton Chrome.

Do not treat two consecutive crops of carrots with any product containing clomazone in one calendar year.

**Spring Treated Failed Crops i.e. Potato, Carrot, Vining Pea, Combining Pea (spring) and Field Bean (spring)**

Time of Sowing/Planting Replacement Crop	Approved Replacement Crops	Restrictions
Spring	Combining peas Field beans Potatoes Carrots Sugar beet Onion Linseed Turnips	At least 6 weeks must have elapsed since treatment of the failed crop
	Maize Dwarf French beans	At least 9 weeks must have elapsed since treatment of the failed crop
Winter	As for crops to follow normal harvest of a treated crop	

Do not sow or plant any replacement crop not listed above in the spring after a failed crop treated with Clayton Chrome.

Do not treat two consecutive crops of carrots with any product containing clomazone in one calendar year.

**SPRAYER DECONTAMINATION**

Trace amounts of Clayton Chrome remaining in the sprayer after use can cause damage to other crops subsequently treated with the same equipment.

Immediately after use, thoroughly clean the sprayer and all equipment with a proprietary detergent cleaner.

It is essential that all nozzles, filters, tubing, strainers, pumps and the spray tank are thoroughly cleaned after use to avoid the risk of damage to crops subsequently treated with the same equipment.

Spray equipment should not be drained or flushed onto land planted with or intended for planting with trees or crops other than oilseed rape, beans and peas.