

# CLAYTON ASPEN

MAPP 16114

Contains 75 g/l mesotrione and 30 g/l nicosulfuron, a sulfonylurea herbicide, in an oil dispersion concentrate

For the control of certain annual broad-leaved weeds and grasses in forage and grain maize.



IRRITANT

Irritating to skin



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 HERBICIDE

Crop	Maximum individual dose of product	Maximum number of treatments	Latest time of application
Forage maize Grain maize	1.5 l/ha	One per crop	Up to and including the 8 true-leaves stage GS18.
<b>Other specific restrictions</b> <ol style="list-style-type: none"><li>To avoid the build up of resistance, do not apply this or any other product containing an ALS inhibitor herbicide with claims for the control of grass weeds, more than once to any crop.</li><li>Do not apply by hand-held equipment.</li></ol>			
<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 CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES 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.

Wear suitable gloves.

Use only in well-ventilated areas.

AVOID CONTACT WITH SKIN.

DO NOT BREATHE SPRAY.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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 swallowed, seek medical advice immediately and show this container or label.

If swallowed, rinse mouth with water (only if the person is conscious).

### 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.

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 CRD 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.

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m 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 1m of the top of a ditch which is dry at the time of application. Aim spray away from water.

TAKE EXTREME CARE TO AVOID SPRAY DRIFT onto non-crop plants outside of the target area.

### 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.

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.

This product is approved under the Plant Protection Products Regulations.

Safety data sheet available for professional user on request.

**Clayton Plant Protection (UK) Ltd.,  
Bracetown Business Park  
Clonee, Dublin 15  
Ireland.**

Tel: (00 353) 1 8210127

Contents: **5 litres**

PROTECT FROM FROST

STORE IN A COOL, DRY PLACE

SHAKE THOROUGHLY BEFORE USE

Batch No:

Permit holder: Clayton Plant Protection Ltd, address as above.

LERAP Category B

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains nicosulfuron and mesotrione). 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.**

### ACTIVITY

Clayton Aspen is active against a range of broad-leaved weeds and grasses commonly found in maize crops. Growth of affected weeds is halted almost immediately; the weeds then die slowly with obvious yellowing occurring.

## TREATABLE CROPS

Forage maize and grain maize of all varieties being grown on light, medium and heavy mineral soil types may be treated. Some loss of efficacy might occur on organic soils (more than 9 % organic matter). **DO NOT USE** on maize seed crops or their precursor inbred lines or on sweetcorn varieties. Some damage might occur with particularly sensitive varieties of forage maize under certain conditions, e.g. Abraxas, Fjord, Rival, resulting in some loss of yield – see also CROP CONDITIONS.

**Under-sowing:** crops under-sown or intended for under-sowing must not be treated with Clayton Aspen.

## TIME OF APPLICATION

Stage for crop	Stage for weeds	Remarks
Spray from the 2-leaves stage of the crop up to and including the 8-leaves stage.	Spray when the weeds are within their susceptible growth stages, preferably whilst still small – see WEED CONTROL.	Spray weeds when growing actively in a moist soil during good growing weather.

## RATE OF APPLICATION

Apply Clayton Aspen at 1.5 l/ha.

## APPLICATION

Apply as a MEDIUM spray (BCPC), ideally achieved at not less than 2 bar, through a conventional hydraulic sprayer in 200-400 l/ha water; the water volume being adjusted as necessary to achieve good coverage of weeds. Even cover of the weeds with spray is essential for maximum weed control. Spray accurately to avoid overlapping spray swaths. Crop damage with consequent loss of yield might occur from local overdosing. Avoid spray drift. Do not spray wet foliage or when rain might fall before the spray has dried thoroughly on the weed leaves.

## MIXING

Ensure that the spray equipment is clean and correctly adjusted before use. Half-fill the spray tank with clean water and put under agitation. Shake the product in its container thoroughly before pouring; add the required amount of Clayton Aspen to the water. Fill the tank with water to the level required and keep the mixture under agitation until completion of spraying. Spray immediately after mixing.

## COMPATIBILITY AND TREATMENTS IN SEQUENCE

- Do not tank-mix with foliar or liquid fertilisers or organophosphorus insecticides.
- Do not apply Clayton Aspen to forage maize or grain maize already treated or to be treated with organophosphorus insecticides.
- Do not apply Clayton Aspen in sequence or in tank mixture with a product containing any other sulfonylurea.

## SPRAY DRIFT/GROUND CONTAMINATION

Avoid damage by drift onto broad-leaved plants outside the target area or onto ponds, waterways and ditches. Take especial precautions to prevent drift onto any susceptible crop. All broad-leaved crops such as tomatoes, lettuce, oilseed rape, vegetables, turnips, swedes, sugar beet, peas, beans, glasshouse crops, fruit, ornamentals etc. are susceptible by spray contact or ground contamination. Do not spray in windy weather. Emptying or cleaning of spray machinery must not be conducted on cropped land or land intended for cropping.

## CROP CONDITIONS

Crops under stress or of reduced vigour due to other herbicides, water-logging, drought, low temperatures, soil compaction, soil acidity, improper nutrition or other factors causing stress that restrict crop growth, should not be treated with Clayton Aspen. The most frequently observed reactions of a treated crop under stress, whether soil or weather related, are a yellowing of the foliage, crop stunting or loss of vigour. These effects are normally short-lived and in most cases are without result upon subsequent growth or yield; however if the stress on the crop is persistent or was not relieved before treatment, some loss of yield may result.

## CULTIVATIONS

All cultivations should be completed at least 7 days, preferably earlier, before application to allow weeds to germinate and grow to the 2 true-leaves stage. Soil disturbance after application will only encourage fresh weed germination.

## POST-APPLICATION RESTRICTIONS

Unprotected persons, i.e. persons not wearing protective clothing, must not enter sprayed areas until the spray has completely dried on the leaves.

No food or feed may be taken from recently treated areas; similarly no grazing is allowed.

## SUCCEEDING CROPS

In the event of crop failure for any reason only forage or grain maize may be sown as the immediate replacement crop following ploughing.

Following a treated crop of maize taken to normal harvest, winter wheat or winter barley may be sown in the autumn provided that the land is first mould-board ploughed at least 15 cm deep. An interval of at least 4 months must separate application of Clayton Aspen and the sowing of the specified autumn crop.

In the spring of the year following an application to maize, forage or grain maize, spring wheat, spring barley or rye-grass may be sown following ploughing. The planting or sowing of any other crop is not advised or recommended.

## WEED CONTROL

The susceptibility of weeds under good growing conditions is indicated below. Weed control may be reduced when growing conditions are less than optimal, e.g. when the soil is dry.

		Latest growth stage for effect
Amaranth, common	S	3 nodes
Black-bindweed	S	First side shoot visible
Chickweed, common	S	Before flower buds visible
Cleavers	S	5 whorls unfolded
Cockspur grass	S	Mid-tillering
Dead-nettle, red	S	3 nodes
Fat-hen	S	Before flower buds visible
Field-speedwell, common	S	3 true-leaves
Fumitory, common	S	6 true-leaves
Hemp-nettle, common	S	4 true-leaves
Mayweed, scented.	S	First side shoot visible
Mayweed, scentless	S	First side shoot visible
Meadow-grass, annual	S	Mid-tillering
Nightshade, black	S	6 true-leaves
Pansy, field	S	2 true-leaves
Persicaria, pale	S	First side shoot visible
Pineappleweed	S	First side shoot visible
Redshank	S	5 side shoots visible
Rye-grass, perennial (from seed)	S	First tiller visible
Shepherd's-purse	S	6 true-leaves
Volunteer oilseed rape	S	4 true-leaves
Couch, common	MS	First tiller visible
Knotgrass	MR	5 nodes

**S = Susceptible**

**MS = Moderately susceptible**

**MR = Moderately resistant**

Useful suppression of common couch (*Elymus repens*) may be gained in the year of application but the longer term effect on the weed is not known.

## WEED RESISTANCE

This product contains nicosulfuron, an ALS inhibitor, classified by the HRAC as being in Group B. Clayton Aspen also contains mesotrione, a 4- HPPD inhibitor, classified by HRAC as being in Group F2.

Use Clayton Aspen only as part of a resistance strategy that includes cultural methods of control and does not use ALS inhibitors as the sole chemical method of grass weed control.

Repeated use of herbicides with the same mode of action can lead to the evolution of strains of weeds resistant to the herbicides having that mode of action, to the extent that the resistant strains become dominant. Clayton Aspen should not be used for more than two consecutive years on the same area of land. Alternative herbicides or other methods of weed control should be employed before using Clayton Aspen again.

Strains of some annual weeds, 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.

- Rotate herbicides with different modes of action or, if feasible, use mixtures.
- Do not rely on herbicides of one mode of action, e.g. ALS-inhibitors, in the same field over several years.

- Treat weeds when they are small and actively growing for maximum control.

## **AFTER USE**

**Thoroughly clean all spray equipment immediately after completion of spraying with the aid of the proprietary sprayer cleaner ALL CLEAR® EXTRA or a sodium hypochlorite based preparation used according to their respective label instructions. Failure to clean the equipment thoroughly, including the inside and outside of the lid, may result in damage to sensitive crops subsequently sprayed with the same spray equipment.**

### **Recommended procedure**

1. Drain the tank completely. Wash the outside of the equipment with clean water.
2. Rinse the inside of the tank with clean water and flush through booms and hoses using at least 10% of the spray tank volume. Drain the tank completely.
3. Half-fill the spray tank with clean water and add All Clear® Extra as per its label recommendation (1 litre per 200 litres); alternatively use a sodium hypochlorite based preparation as per its label recommendations. Agitate and then flush the boom and hoses with the cleaning solution. Completely fill the tank with water and agitate for 15 minutes. Flush the boom and hoses again and drain the tank completely.

If it is not possible to drain the tank completely, step 3 must be repeated before going on to step 4.

4. Remove nozzles and filters and clean with All Clear® Extra solution at 50 ml per 10 litres of water or a sodium hypochlorite based preparation as per its label recommendations.
5. Rinse the tank with clean water and flush through the boom and hoses using at least 10% of the spray tank volume. Drain the tank completely and allow the sprayer to dry.
6. Dispose of washings in a safe area upon the holding designated for the purpose. Do not spray onto land intended for cropping with sensitive crops.

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