CLAYTON RIFT

A water dispersible granule formulation containing 400g/kg thifensulfuron-methyl and 150g/kg tribenuron-methyl for the control of broad-leaved weeds in winter wheat, spring wheat, winter barley, spring barley, triticale and winter rye. **MAPP 18945**

Safety Information
WARNING
H410. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

P273 Avoid release to the environment
P391 Collect spillage
P501 Dispose of contents / container to a licensed hazardous waste disposal contractor or collection site except for empty containers which can be disposed of as non-hazardous waste. To avoid risks to human health and the environment, comply with the instructions for use.

EUH2018 Contains tribenuron-methyl. May produce an allergic reaction

EUH401 To avoid risks to human health 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.

IMPORTANT INFORMATION : FOR USE ONLY AS AN AGRICULTURAL HERBICIDE			
Crops	**Maximum individual dose**	**Maximum number of treatments**	**Latest time of application**
Winter and spring wheat, winter and spring barley, triticale and winter rye	100g/ha	1 per crop	Before flag leaf sheath extending stage (BBCH39)
Other specific restrictions :- This product must only be applied from 1st February in the year of harvest until the specified latest time of application. Application has the be performed in post-emergence of weeds, from 3 leaf stage of the crop (BBCH13)			
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.			

Approval holder – Clayton Plant Protection Ltd., Unit F10, Bracetown Business Park CLONEE, Dublin 15. Ireland. Tel: (00 353) 1 8210127 Email: info@claytonpp.com www.claytonpp.com **Marketing Co, in UK** Clayton Plant Protection (UK) Ltd. Contact details as above	Contents: 500g STORE IN A COOL DRY PLACE PROTECT FROM FROST UN No. 3077 Batch No:

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.

SAFETY PRECAUTIONS
Operator Protection
WASH CONCENTRATE from skin or eyes immediately
DO NOT BREATHE SPRAY
WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

Environmental Protection
Do not contaminate water with product or its container.
Do not clean application equipment near surface water.
Avoid contamination via drains from farmyards or roads.
To protect aquatic organisms, respect an unsprayed buffer zone to surface water bodies as specified for the crop.
HORIZONTAL BOOM SPRAYERS MUST BE FITTTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY. Low drift spraying equipment must be operated according to the specific conditions stated in the official three star operating for the equipment as published on HSE Chemical Regulation Directorate's website.
Maintain three star operating conditions until 30M from the top of any surface water bodies.
DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the crop to the top of the bank of a static or flowing body of water, or within 1M of the top of a ditch which is dry at the time of application. Aim spray away from water.
NOTE: BUFFER ZONES OF MORE THAN 5m CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENTAL RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded on Section A of the LERAP record form. The LERAP record form must be kept available for three years.

Crop	Maximum individual dose (g product/ha)	Maximum number of treatments	Latest time of application	Aquatic buffer zone distance (metres)
Winter and spring cereals	100	1	BBCH 39	6 (with 3* DRT)

Other specific restrictions
This product must not be applied with hand-held sprayers

Storage and Disposal
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING-STUFFS.
KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
EMPTY CONTAINER COMPLETELY AND DISPOSE OF SAFELY
KEEP OUT OF REACH OF CHILDREN

DIRECTIONS FOR USE
IMPORTANT: This leaflet is approved as part of the label. All instructions on this leaflet and on the label should be read carefully in order to obtain successful results from the use of this product.

Restrictions
Clayton Rift must not be applied to any crop suffering from stress as a result of water logging, low temperatures, pest of disease attack, lime or nutrient deficiency or other factors reducing crop growth.
Do not use Clayton Rift on cereal crops undersown with grass, clover or other legumes or any other broad leaved crop.
Do not apply Clayton Rift to any cereal crop in sequence or tank mixture with a product containing a sulfonylurea herbicide.
Due to the high level of activity of the herbicide, special care must be taken to avoid damage by drift onto any broad-leaved plants outside the target area, or onto ponds, waterways or ditches. Thorough cleaning of equipment is also very important – see below.
Contract agents should be consulted before using on crops grown for seed.
Effectiveness using three star drift reduction technology may be reduced.

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

Weed Control
Clayton Rift contains thifensulfuron-methyl and tribenuron-methyl, sulfonylurea (ALS) inhibitors, which have both foliar and root activity against a wide range of broad0leaved weeds.
Clayton Rift is readily translocated within the weed plant, inhibiting growth within hours of treatment, thus preventing competition with the crop. Many weeds show marked colour changes as they die back after treatment, but the time taken for these symptoms to appear and death to occur may vary according the weed species and weather conditions. The full effect of the treatment may not be apparent for up to four weeks. Plants not completely killed are often stunted and much less competitive with the crop. Clayton Rift is most effective when applied to small actively growing weeds. As larger weeds may become less susceptible it is important to note the size of each weed species so that application is made at the optimum time. Good spray cover of the weed must be obtained. Weed control may be reduced when soil conditions are very dry. Residual effects may be reduced by heavy rain. The susceptibility rating of weeds in the following table refer to good spray cover and good growing conditions.

Weed Resistance
This product contains thifensulfuron-methyl and tribenuron-methyl which are ALS inhibitors also classified by the Herbicide Resistance Action Committee as Group B.
To reduce the risk of developing resistance, applications should be made to young actively growing weeds
The use of cultural methods of control and herbicides with non-ALS modes of action within the cropping season and/or throughout the cropping rotation will help to reduce the risk of developing resistance.
When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered resistant to a herbicide if it survives a correctly applied treatment at the recommended dose. Development of resistance within a weed species can be avoided or delayed by alternating (or tank mixing) with suitable products having a different mode of action. A strategy for preventing and managing resistance should be adopted. The Weed Resistance Action Group has produced guidelines and copies are available from the HGCA, CPS, your distributor, crop advisor or product manufacturer.

Susceptible Weeds
The susceptibility rating of weeds in the following table refer to good spray cover and good growing conditions with application made when the weeds are at up to 6 true leaf stage. Weeds germinating after treatment will not be adequately controlled.

Weeds species	**Susceptibility level** (S=susceptible, MS=moderately susceptible).
Black bindweed	S
Cleavers	MS
Scentless mayweed	S
Common chickweed	S
Common field speedwell	MS
Fathen	S
Common poppy	S
Field forget-me-not	S
Field pansy	MS
Henbit deadnettle	S
Red deadnettle	MS
Shepherd's purse	S
Ivy-leaved speedwell	MS

In many situations, a dose of 80g/ha will be sufficient, but if cleavers, speedwells, common poppy or black bindweed are a particular concern, a dose of 100g/ha should be used.

Crops
Clayton Rift can be used on all varieties of winter and spring wheat, winter and spring barley, triticale and winter rye between the growth stages specified below.

Soil and Weather
Clayton Rift can be used on all soil types. Weed control may be reduced when conditions are very dry.

Volume and Application
Before using Clayton Rift, spraying equipment must be clean and free from contamination with other pesticides.
Application should be made in 200L water per hectare using suitable ground equipment to give good spray cover of the weeds. In thick or dense weeds, use higher water volumes up to 400L water per hectare to ensure good spray cover of the weeds. Use a conventional field crop sprayer at a pressure to 2 – 3 bars and apply as a MEDIUM spray (as defined by BCPC). Care should be taken not to overlap spray swaths.

Dose and Timing
Apply Clayton Rift at 80 to 100 g/ha of product.
Clayton Rift must only be applied in the spring after 1st February, from the 3 leaf stage up to and including the flag-leaf fully emerged stage of the crop. Clayton Rift should not be applied within 7 days of rolling the crop. Do not apply Clayton Rift more than once to any cereal crop.

Mixing
Quarter fill the spray tank with clean water. Start the agitation and add the required amount of Clayton Rift directly to the tank without prior mixing. Continue agitation whilst topping up the tank and while spraying.

Compatibility
In any tank mix add Clayton Rift to the tank first and ensure it is fully dispersed before adding the partner product.
Do not allow Clayton Rift to come into contact with undiluted pesticide concentrate.
Products should only be tank-mixed if each product can be applied within the label guidelines for its use.
Joint application or sequence with some other sulphonylurea or ALS inhibiting herbicides may be applied to a crop **PROVIDING** it is within the label guidelines for the other product. Consult your supplier or adviser for more information.
Do not tank mix Clayton Rift with chlorpyrifos. Allow a minimum of 14 days between application of Clayton Rift and any chlorpyrifos treatment.

Following crops
Only cereals, oilseed rape and field beans may be sown in the same calendar year after harvest of a crop treated with Clayton Rift.
No special requirement for cultivation are needed when cereals are to be sown as the following crop.
Before sowing either oilseed rape or field beans, soil should be cultivated to a depth of 20cm.
Vigour reductions may been seen in following crops of oilseed rape and field beans under certain circumstances e.g. dry summer. Any effects should be outgrown and should not result in any yield loss.
In the following spring, only cereals, oilseed rape or sugar beet may be sown.
If Clayton Rift has been used with any other sulphonylurea product, check the label of both products or take advice from your supplier or advisor.
If sugar beet is the following crop, check the label of any other sulphonylurea product that has also been used.

Replacement Crops
In case of crop failure for any reason, sown only spring cereals. Before sowing, soil should be ploughed and cultivated to a depth of at least 15 cm.

Spray Tank Clean-out
To avoid subsequent damage to crops other than cereals, immediately after spraying Clayton Rift, thoroughly clean all spray equipment including the inside and outside of the lid, using a proprietary sprayer cleaner for use with sulfonylurea products according to the following procedure :-

1. Immediately after spraying, drain tank completely. Wash any contamination off outside the sprayer with clean water.
2. Rinse the inside of the tank with clean water and flush at least one tenth of the spray tank volume through the boom and hoses.
3. Half fill he tank with clean water and add the correct amount of a proprietary sprayer cleaner for use with sulphonylurea products. Agitate and the flush the boom and hoses with the solution. Top up completely with water and allow to stand for 15 minutes with agitation. Flush the booms and hoses again and drain the tank completely. If it is not possible to drain the tank completely, repeat step 3 before going on.
4. Remove nozzles and filters and soak in a bucket containing a proprietary sprayer cleaner for use with sulphonylurea products at the same concentration as that used for the sprayer.
5. Rinse tank again with clean water and flush at least one tenth of the tank volume through the booms and hoses. Drain tank completely.

General Notes
Consult label tank clean-up procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

WARNINGS
Extreme care should be taken to avoid damage by drift onto broad-leaved plants outside of the target area or onto surface waters or ditches.
Spraying equipment should not be drained or flushed onto land planted with or intended for planting with trees or crops other than cereals.

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