




CLAYTON MESSIER

An emulsifiable concentrate containing 144 g/litre (13.85% w/w) fluroxypyr-meptyl (100 g/litre acid equivalent), 80 g/litre (7.69% w/w) clopyralid and 2.5 g/litre (0.24% w/w) florasulam.

A post-emergence herbicide for use on all varieties of WINTER AND SPRING WHEAT, BARLEY, RYE, OATS, SPELT, DURUM WHEAT AND WINTER TRITICALE and those crops undersown with grass for the control of CLEAVERS, COMMON CHICKWEED and other broad-leaved weeds.

MAPP 20687

	CLAYTON MESSIER : Contains hydrocarbons C10-C13, aromatics. <1% naphthalene
	DANGER May be fatal if swallowed and enters airways. Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation. Harmful if inhaled Very toxic to aquatic life with long lasting effects
	Wear protective gloves/ clothing/eye /face protection. IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not induce vomiting National Poisons Information Service: 111
	Collect spillage Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as nonhazardous waste.
To avoid risks to man and the environment, comply with the instructions for use.	

THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK.

Authorisation Holder:- Clayton Plant Protection Ltd., Bracetown Business Park Clonee, Dublin 15. Ireland. Tel: (00 353) 1 8210127 Email: : info@claytonpp.com www.claytonpp.com	SHAKE WELL BEFORE USE. PROTECT FROM FROST. STORE IN A COOL, DRY PLACE. Pack size:- 5L e Batch no:- UN3082
---	--

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:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment: -

WEAR SUITABLE PROTECTIVE CLOTHING (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES (NEOPRENE OR NITRILE) when handling contaminated surfaces.

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

DO NOT BREATHE SPRAY.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating and drinking or smoking and after work. IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).

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.

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.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely. DO NOT RE-USE CONTAINER for any purpose

IMPORTANT INFORMATION : FOR USE ONLY AS A PROFESSIONAL HERBICIDE
IMPORTANT: Note that goods treated under the terms of this Great Britain authorisation can only be legally marketed in Northern Ireland if they are in accordance with the statutory EU Maximum Residue Level (MRL) set under Regulation (EC) No 396/2005. This may also apply to residues in animal products where treated crops are fed to livestock. Growers are advised to draw this to the attention of distributors and retailers so that EU MRL breaches and any associated enforcement against goods marketed in Northern Ireland are avoided.

Crops	Maximum Individual Dose L/ha	Maximum Number of Applications per year	Latest Time of Application
Barley (winter), barley (winter) (undersown with grass), Rye (winter), rye (winter, undersown with grass), Spelt (winter), spelt (winter) (undersown with grass), Triticale (winter), triticale (winter) (undersown with grass), Wheat (winter), wheat (winter) (undersown with grass)	1.0	One per year	Before flag leaf extending stage (before Zadoks 41)
Barley (spring), barley (spring, undersown with grass), Rye (spring), rye (spring) (undersown with grass), Wheat (spring), wheat (spring, undersown with grass), Durum Wheat, Durum Wheat (undersown with grass).	1.0	One per year	Before flag leaf extending stage (before Zadoks 41)

Oats (winter), oats (winter, undersown with grass), Oats (spring), oats (spring, undersown with grass)	1.0	One per year	Before 2 nd node detectable stage (Zadoks 31).
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.			
Other Specific Restrictions :-			
Applications to cereals must only be made between February 1 st and June 30 th			
The total amount of florasulam applied to a cereal crop must not exceed 7.5g/ha.			
Extreme care must be taken to avoid spray drift onto non-crop plants outside the target area.			

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

GENERAL INFORMATION

CLAYTON MESSIER herbicide has activity against a range of broad-leaved weeds. The ideal timing for application is when the weeds are small and actively growing. The effectiveness of CLAYTON MESSIER may be reduced when soils are very dry.

NOTES

Avoid overlapping spray bouts.

Do not use any plant material treated with CLAYTON MESSIER for composting or mulching.

Do not use manure from animals fed on crops treated with CLAYTON MESSIER for composting.

Do not spray when crops are under stress from cold, drought, pest damage, nutrient deficiency etc.

Do not roll or harrow 7 days before or after application.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

FOLLOWING CROPS

Straw from cereals sprayed with CLAYTON MESSIER may contain residues which could damage certain crops. To avoid such risk bale and cart away the straw.

Where straw is chopped and incorporated do not plant winter beans in the same year as treatment with CLAYTON MESSIER.

CLAYTON MESSIER residues in plant tissues (including manure and digestate) which have not completely decayed may affect succeeding susceptible crops. If treated crop remains have not fully decayed by the time of planting following crops then avoid planting: peas, beans and other legumes; carrots and other umbellifers; potatoes; lettuce and other compositae; glasshouse and protected crops.

Crops that can be sown in the same year as a crop treated with CLAYTON MESSIER is harvested: Cereals, oilseed rape, grass and vegetable brassicas as transplants.

Vigour reductions may be seen in following crops of oilseed rape after a dry summer. This will be outgrown and will not result in yield loss.

Crops that can be sown in the calendar year following treatment with CLAYTON MESSIER: Cereals, oilseed rape, field beans, grass, linseed, peas, sugar beet, potatoes, maize, clover (for use in grass/clover mixtures), carrots and vegetable brassicas as transplants.

JOINT APPLICATION

A joint application is the use of a product in tank mixture or sequence with another product.

Any products containing fluroxypyr and/or clopyralid CANNOT be tank mixed with CLAYTON MESSIER provided

An application of another product containing florasulam can be made provided the total dose of florasulam is not exceeded. The maximum total dose of florasulam applied to the crop must not exceed 7.5g/ha. For autumn planted crops the maximum total dose of 3.75 g/ha florasulam must be observed for application made between

crop emergence in the year of planting and February 1st in the year of harvest

IMPORTANT NOTE:

Joint applications should only be made within the label recommendations of every product in the application. Only one other product with an ALS inhibitor mode of action may be applied to a cereal crop treated with CLAYTON MESSIER.

CLAYTON MESSIER may be applied in joint application to the same cereal crop with one of several other ALS products: Ask your adviser or supplier for details.

For autumn planted crops a maximum total dose of 3.75 g/ha of florasulam, must be observed for applications made between crop emergence in the year of planting and February 1st in the year of harvest.

CROP FAILURE

In the event of a crop failure in the spring with CLAYTON MESSIER only the following crops may be planted: spring wheat, spring barley, spring oats, maize or ryegrass.

RESISTANCE

CLAYTON MESSIER contains three different active substances (fluroxypyr, florasulam and clopyralid) and therefore the risk of resistance building is reduced. Fluroxypyr and clopyralid are pyridine carboxylic acids (Group 4 previously Group O, HRAC classification) and florasulam belongs to the triazolopyrimidines (Group 2 previously Group B, HRAC classification). Populations of *Stellaria media*, *Papaver rhoeas* and *Matricaria* spp. have been found to be resistant to Group 2 herbicides.

As florasulam is an ALS inhibitor there is a risk of resistance building to this active ingredient and so precautions should be taken to minimise the risk. Therefore avoid using single mode of action herbicides, such as ALS herbicides in the same field over a number of years. Growers are advised to apply products containing herbicides with different modes of action or use sequences or tank mixtures where two or more components are active against the target weeds.

CROPS

CLAYTON MESSIER can be applied in the spring on all varieties of winter and spring wheat, winter and spring barley and winter and spring oats, durum wheat, rye and triticale.

SOIL

CLAYTON MESSIER may be used on all soil types.

APPLICATION TIMING Winter sown cereals (wheat, barley, rye, triticale, spelt)

Clayton Messier should be applied from 1st February once the crop has reached 3 leaves (Zadoks 13) up to before the flag leaf extending stage (before Zadoks 41).

Spring sown cereals (wheat barley rye durum wheat)

Clayton Messier should be applied from 1st February once the crop has reached 3 leaves (Zadoks 13) up to before the flag leaf extending stage (before Zadoks 41).

Winter and spring sown oats

Clayton Messier should be applied from 1st February once the crop has reached 3 leaves (Zadoks 13) up to before the flag leaf extending stage (before Zadoks 41).

Winter cereals except oats undersown with grass

Clayton Messier should be applied from 1st February once the crops has reached 3 leaves (Zadoks 13) up to before the flag leaf extending stage (before Zadoks 41).

Spring cereals except oats undersown with grass

Clayton Messier should be applied from 1st February once the crop has reached 3 leaves (Zadoks 13) up to before the flag leaf extending stage (before Zadoks 41).

Winter and spring sown oats undersown with grass

Clayton Messier should be applied from 1st February once the crop has reached 3 leaves (Zadoks 13) up to before the flag leaf extending stage (before Zadoks 41).

WEED SUSCEPTIBILITY AND MAXIMUM SIZE CONTROLLED

One application of 1.0 L/ha of CLAYTON MESSIER will control all susceptible emerged weeds. For optimum performance it is important to check the size of weeds before application.

Weed	Maximum weed size controlled
Cleavers	120-150mm
Common chickweed	100mm
Corn spurrey	2 true leaves
Creeping thistle (from seed)	4 true leaves
Field forget me not	6 true leaves
Scented mayweed	8 true leaves or rosette
Scentless mayweed	Rosette
Shepherds purse	4 true leaves
Volunteer oilseed rape	4 true leaves
Wild radish	4 true leaves

APPLICATION

CLAYTON MESSIER may be applied through tractor-mounted hydraulic sprayers or knapsack sprayers providing they are in good working order and have been calibrated according to the manufacturers' recommendations. Do not apply through CDA applicators.

WATER VOLUME

Apply CLAYTON MESSIER in 80 to 250 litres of water per hectare. The lower volume must only be used in open crops on small weeds.

MIXING

Half fill the spray tank with water and add the required amount of CLAYTON MESSIER.

Fill up the spray tank, agitating continuously to ensure thorough mixing, and maintain agitation until spraying is complete. Use only clean water for mixing.

SPRAY QUALITY

Apply CLAYTON MESSIER as a MEDIUM spray as defined by the BCPC system.

TANK MIXTURES

Where tank mixes are used, and unless directed otherwise, the preferred order of addition of products to the spray tank is as follows: water dispersible granules, wettable powders, suspension concentrates (flowables), emulsifiable concentrates, solution concentrates.

Each product should be added to the half-full sprayer and be fully dispersed before the addition of the next product.

TANK CLEANING

To avoid subsequent injury to crops other than cereals, all spraying equipment must be thoroughly cleaned both inside and out, using a proprietary spray cleaner (i.e. All Clear Extra) as follows:

1. Immediately after spraying thoroughly and completely rinse all internal surfaces.
2. Rinse inside of tank with clean water and flush through booms and in-line strainers using at least one tenth of the spray tank volume. Drain tank completely.
3. Fill tank with clean water (minimum 10% of tank capacity) and add tank cleaner at the recommended rate and agitate for 15 minutes. Flush the boom and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with All Clear Extra solution containing 50 ml of All Clear Extra per 10 litres of water.
5. Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely.
6. For disposal of washings, follow Code of Practice for Using Plant Protection Products. Do not spray onto sensitive crop or land intended for cropping with sensitive crop.

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