

**Invert pack repeatedly and shake before use!**



# alister®

## FLEX

5L e



**GROUP 2 | 12 HERBICIDES**

For use only as an agricultural herbicide.

**A contact and residual herbicide (containing two sulfonyleurea herbicides) for use as a post crop emergence treatment for the control of a range of annual grass and broad-leaved weeds in winter wheat and triticale.**

An oil dispersion formulation containing 120 g/L diflufenican, 9 g/L mesosulfuron-methyl and 7.5 g/L iodosulfuron-methyl-sodium.

#### Authorisation holder

Bayer CropScience Ltd., 230 Cambridge Science Park Milton Road, Cambridge, CB4 0WB United Kingdom

#### Marketing company

Bayer CropScience Ltd, Bayer Ltd, 1st Floor, The Grange Offices, The Grange, Brewery Road, Stillorgan, Co. Dublin A94 H2K7 Freephone: 1800 818534

#### For 24 hour emergency information contact

**Bayer CropScience Limited** Telephone: 00800 1020 3333

For professional use only

#### Safety Information

##### ALISTER FLEX

UFI: E2V0-M063-300W-6EMQ

An oil dispersion formulation containing 120 g/L diflufenican, 9 g/L mesosulfuron-methyl and 7.5 g/L iodosulfuron-methyl-sodium. Also contains mefenpyr-diethyl.



#### Warning

**Causes serious eye irritation.**

**Causes skin irritation.**

**Very toxic to aquatic life with long lasting effects.**

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Call a POISON CENTER or doctor/physician.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Contains fatty alcohol ethoxylate alkyl ether. May produce an allergic reaction.

**To avoid risks to human health and the environment, comply with the instructions for use.**

**PCS No. 05183**

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## FLEX

### SAFETY PRECAUTIONS

#### Operator Protection

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the product.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) during application.

WHEN USING DO NOT EAT, DRINK OR SMOKE

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

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

#### 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 aquatic organisms respect an unsprayed buffer zone of 5 metres to surface water bodies.

Use appropriate containment to avoid environmental contamination.

#### Storage and Disposal

KEEP OUT OF REACH OF CHILDREN

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS

SHAKE WELL BEFORE USE

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 safely.

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

#### READ ALL INSTRUCTIONS CAREFULLY BEFORE USE

Crop	Winter wheat and triticale
Maximum individual dose	1.0 L/ha
Maximum total dose	1.0 L/ha
Latest time of application	Before the end of tillering (GS 29)



alisterflexsds

To access the **Safety Data Sheet** for this product scan the code or use the link below:

[www.bayercropscience.ie/sds/alisterflex.pdf](http://www.bayercropscience.ie/sds/alisterflex.pdf)

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## DIRECTIONS FOR USE

### RESTRICTIONS

DO NOT use Alister Flex on crops undersown with grasses, clover or other legumes or any other broad-leaved crop.

Alister Flex must not be applied to any crop suffering from stress as a result of drought, waterlogging, pest or disease attack, nutrient deficiency, soil compaction or other factors reducing crop growth.

DO NOT roll or harrow in the days preceding or following application of Alister Flex.

Because some non-target crops are sensitive to Alister Flex, extreme care is required to avoid drift onto plants outside the target area, or onto ponds, waterways or ditches.

DO NOT apply Alister Flex when rain is imminent.

AVOID application during periods of frosty weather. Sharp or severe frosts before or following application may cause crop yellowing or stunting from which the crop will normally recover.

Store in a safe dry place designated as an agrochemical store.

### WEEDS CONTROLLED

<b>Grass Weeds:</b>		
<b>SUSCEPTIBLE at 1.0 L/ha post-emergence up to GS 29:</b>		
Annual meadow-grass	Loose silky bent	Rye-grasses (from seed)
Black-grass	Rough-stalked meadow-grass	
<b>Broad-leaved weeds:</b>		
<b>SUSCEPTIBLE at 1.0 L/ha post-emergence up to 6 true leaf stage (GS 16):</b>		
Charlock	Mayweeds	Red dead-nettle
Cleavers*	Mustard, white	Runch / wild radish
Common chickweed	Oilseed rape, volunteer	Shepherd's purse
Forget-me-not	Pansy	Speedwell, common field
Fumitory	Parsley piert	Speedwell, ivy-leaved
Groundsel	Poppy, common	Toad rush
Henbit dead-nettle		
<b>MODERATELY SUSCEPTIBLE at 1.0 L/ha post-emergence up to 6 true leaf stage (GS 16):</b>		
Bur chervil	Crane's bill, cut-leaved	

\*Susceptible up to 4th whorl stage (GS 14). Useful levels of control can be achieved, but a follow-up treatment with a specific cleaver herbicide may be required in some situations.

Alister Flex is readily translocated within the target weed, inhibiting growth within hours of application. The actual time taken for herbicidal symptoms to appear and death varies between weed species, timing of application and weather conditions. In some cases symptoms may not be apparent for up to 4 weeks. Efficacy and speed of action of Alister Flex are favoured by application when weeds are small and in active growth. As Alister Flex is active primarily via foliar uptake good spray coverage of the target weed is essential for optimal efficacy.

Strains of some annual grasses (e.g. black-grass, wild-oats and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing resistance should be adopted. Guidelines have been produced and copies are available from Teagasc, your distributor, crop adviser or product manufacturer.

The presence of enhanced metabolism herbicide resistant populations of Italian rye-grass may lead to unacceptable levels of control. To reduce the risk of developing resistance or where resistance to sulfonylurea herbicides is suspected, applications should be made to young, actively growing weeds.

Key aspects of the Alister Flex resistance management strategy are:

- ALWAYS follow WRAG (Weed Resistance Action Group) guidelines for preventing and managing herbicide resistant grass and broad-leaved weeds.
- DO NOT use Alister Flex as a stand-alone spring treatment for black-grass, rye-grass or common chickweed. Use only in sequence with a robust autumn herbicide programme based on products with non-ALS modes of action.
- IDEALLY apply Alister Flex early to young actively growing weeds and before stem extension of meadow-grasses and rye-grass.
- DO NOT use Alister Flex as the sole means of grass weed or broad-leaved weed control in successive crops.
- ALWAYS use grass and broad-leaved weed herbicides with non-ALS modes of action throughout the cropping rotation.
- ALWAYS monitor weed control effectiveness and investigate any odd patches of poor grass or broad-leaved weed control. If unexplained contact your agronomist who may consider a resistance test appropriate.

## **CROP SPECIFIC INFORMATION**

### **Winter Wheat**

Apply via a tractor mounted/trailed horizontal boom sprayer at a rate of 1.0 L/ha. Apply in 80-300 L/ha as a **FINE to MEDIUM** spray (BCPC category). Use application techniques which ensure good weed coverage and crop penetration. Ensure that spray swaths do not overlap.

For use on all varieties of winter wheat and triticale. Apply post-emergence of the crop up to and before GS 29 (before the end of tillering).

In some situations (i.e. heavy rainfall prior to treatment, wide temperature fluctuations or severe frost before or after application) crop yellowing and/or stunting can occur. These effects will not affect yield.

### **FOLLOWING CROPS and CROP FAILURE**

#### Succeeding crops in the normal rotation:

Winter wheat, triticale, winter barley, Italian rye-grass (from August) and winter oilseed rape (from the last week of August) may be sown in the year of harvest to succeed a winter wheat crop treated with Alister Flex. Plough or cultivate to 15 cm prior to planting crops of winter oilseed rape, otherwise crop damage may occur.

In the spring following harvest of the Alister Flex treated crop, spring wheat, spring barley, beetroot, spring protein peas, maize and sunflowers may be drilled / planted.

After harvest of a winter wheat crop treated with Alister Flex before 31 March, it is possible to drill / plant the following crops after 10 August: spring oats, camelina, mustard, phacelia, radish and vetch.

#### Replacement crops in the event of failure of an Alister Flex treated winter wheat crop:

In the event of crop failure for any reason, maize can be sown in the same cropping season as an application of Alister Flex provided a period of at least 75 days has elapsed since application. This must be established only after ploughing.

### **MIXING**

Shake well before use. Add the recommended quantity of Alister Flex to the spray tank half-filled with the required quantity of clean water. Add the remainder of the water with the sprayer agitation system in operation. Maintain agitation during mixing and loading and until spraying is complete. Do not leave the sprayer standing with chemical in it.

To avoid subsequent damage to crops other than winter wheat it is important that the spray tank, boom, hoses, filters and nozzles are thoroughly washed out to remove all traces of Alister Flex immediately after spraying using a proprietary sprayer cleaner (e.g. All Clear Extra®) according to the label instructions for that product. Do not mix any bleach or chlorinating agent with any ammonia-based cleaning agent as toxic gases may be liberated.

### **COMPATIBILITY**

Alister Flex may be applied as a tank-mix with a range of products. Contact Bayer CropScience for compatibility information on specific tank-mixes. Full manufacturer's instructions must be followed for each tank-mix component.

TM Alister is a Trade Mark of Bayer

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