

## SAFETY PRECAUTIONS

### Operator protection:

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

- Operators must wear suitable protective clothing (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate.
- Operators must wear suitable protective gloves when handling contaminated surfaces.
- Operators must wear suitable protective clothing (coveralls) and suitable protective gloves when applying by hand-held equipment.

However, engineering controls may replace personal protective equipment if a COSHH 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 yards and roads. Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area. 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 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. **DO NOT ALLOW DIRECT SPRAY** from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water.

This product qualifies for inclusion within the Local Environment 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's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Livestock must be kept out of treated areas. **IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.**

### Storage and disposal:

**KEEP OUT OF REACH OF CHILDREN.**

**KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.**

**KEEP IN ORIGINAL CONTAINER**, tightly closed, in a safe place.

**WASH OUT CONTAINER THOROUGHLY**, empty washings into spray tank and dispose of safely.

**DO NOT RE-USE CONTAINER** for any purpose.



Product Registration Number: MAPP 17921

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 GRASSLAND, GRASS FOR SEED and FORAGE MAIZE for the control of DAISY, DANDELION, CLOVER, BUTTERCUP, RIBWORT PLANTAIN and other broad-leaved weeds.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.**

**SHAKE WELL BEFORE USE.**

**PROTECT FROM FROST.**

Pack size: 2 Litres e

**Dow AgroSciences Limited**

CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE.

Telephone: (01462) 457272 Fax: (01462) 426605

24 Hour Emergency Telephone Number: +44 (0) 1553 761 251

© Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

This label is compliant with the CPA Voluntary Initiative Guidance.



**Product Identifier according to Art.18 of Reg. (EC) No 1272/2008 (CLP): Leystar®; Hydrocarbons, C10-C13, aromatics, <1% naphthalene**

**Danger**  
**May be fatal if swallowed and enters airways.**  
**Causes skin irritation.**  
**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.  
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 non-hazardous waste.

**TO AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.**

## IMPORTANT INFORMATION.

**FOR USE ONLY AS AN AGRICULTURAL HERBICIDE**

**Situation:** Grassland (established), Grassland (newly sown), Grassland (seed), Forage maize

**Maximum Individual Dose:** }

**Maximum Number of Application:** } Full details are given in the Important Information area on the attached leaflet

**Latest Timing of Application:** }

**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.**



P 1 1 1 0 2 5 7 2 1 7 0 1



## 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.

### IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Situation	Maximum Individual Dose	Maximum Number of Applications	Latest Time of Application
Grassland (established)	2.0 litres product per hectare	One per year	End September and 7 days prior to harvest
Grassland (newly sown)	1.0 litres product per hectare	One per year	End August and 7 days prior to harvest
Grassland (seed)	1.0 litres product per hectare	One per year	End September and 7 days prior to harvest
Forage maize	1.0 litres product per hectare	One per year	Before seven leaves unfolded and before 31st May

#### Other specific restrictions:

- (1) Livestock must be kept out of treated areas for at least 7 days following treatment. IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'
- (2) Application to any grass crop must not be made before February 1<sup>st</sup>
- (3) To protect surface water, application to forage maize must not take place before 10th April
- (4) Following treatment with Leystar, a period of at least 125 days must be observed prior to the planting of succeeding crops

**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 PROTECTIONS PRODUCTS.**

### GENERAL INFORMATION

LEYSTAR\* herbicide has activity against a range of broad-leaved weeds. The ideal timing for application is when the weeds are small and actively growing. Broad-leaved weeds not present at application will not be controlled.

Do not spray when grass is wet.

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

Do not apply if night temperatures are low, if ground frost is imminent, or in periods of prolonged cold or dry weather. Ensure weeds are actively growing as after periods of prolonged drought, weeds can take a long time to start actively growing again after soil moisture returns.

Do not apply to crops under stress; stress can be caused by many factors including frost, drought, waterlogging, trace element deficiency, disease and pest attack etc.

Take extreme care to avoid drift onto crops and non-target plants, e.g. trees, shrubs, bedding, outside the target area.

Do not apply directly to, or allow spray drift to come into contact with agricultural or horticultural crops, amenity plantings or gardens, ponds, lakes or water courses.

Wash out spray equipment thoroughly (see tank cleaning instructions). Traces of LEYSTAR could cause harm to susceptible crops sprayed later.

### GRASSLAND USE NOTES

Grass and weeds must be actively growing to ensure good weed control and minimal check to the grass.

Do not roll or harrow grass for 10 days before or 7 days after application.

To allow maximum translocation do not cut grass for 4 weeks after application.

Do not spray in drought, very hot or very cold weather.

Clover will be killed or severely checked by LEYSTAR.

Do not spray grassland where clover or other legumes are a valuable constituent of the sward.

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

#### Grazing Interval

Where ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable and contain higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely recovered or died and there is no visible sign of the dead weed. Do not include treated ragwort in hay or silage crops.

Livestock must be kept out of treated areas for at least 7 days following treatment.

#### FOLLOWING CROPS (after Forage Maize)

Stubble left in the field after harvest of forage maize sprayed with LEYSTAR may contain residues which could damage certain crops. Do not plant winter beans in the same year as treatment with LEYSTAR.

LEYSTAR 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.

At least 125 days must elapse before planting any of the crops listed below whether after normal harvest or after crop failure.

Crops that can be sown in the same year as a crop treated with LEYSTAR is harvested: Cereals, oilseed rape<sup>1</sup>, grass and vegetable brassicas as transplants.

<sup>1</sup> 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 LEYSTAR: Cereals, oilseed rape, field beans, grass, linseed, peas, sugar beet, potatoes, forage maize, clover (for use in grass/clover mixtures), carrots and vegetable brassicas as transplants.

### CROP FAILURE

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

### RESISTANCE

LEYSTAR contains active ingredients with differing modes of action and the risk of resistance building is therefore reduced. However 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 action mode of action herbicides, such as ALS inhibitors in the same field over a number of years. Users 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.

### AREA OF USE

LEYSTAR can be applied to established grassland, new sown leys, grass for seed and forage maize.

#### Established grassland.

RATES OF USE, WEED SUSCEPTIBILITY AND MAXIMUM SIZE CONTROLLED

LEYSTAR may be applied to established grassland at a maximum dose of 2.0 L/ha from 1st February to 30<sup>th</sup> September (see table below).

Application timing is crucial for good control. Applications must be made to weeds that are actively growing before and immediately after application.

If the grass (and hence the weeds) has been cut or grazed, leave for 2 to 3 weeks to allow sufficient re-growth to occur before spraying. It is important that there is sufficient leaf area for the uptake of the herbicide.

Apply LEYSTAR in 150 – 400 litres of water per hectare. Use the higher water volume where weeds are large at the time of application and where the grass is dense.

Do not spray grassland where clover or other legumes are a valuable constituent of the sward.

Weed	Size Controlled	Dose rate (L/Ha)
Curled Dock	Rosette	2.0
Common Daisy	Rosette	1.5
Dandelion	Rosette	1.5
Creeping Butter cup	Rosette	2.0
Great Plantain	Rosette	2.0
Ribwort Plantain	Rosette	2.0

#### **New Sown leys and grass for seed**

LEYSTAR may be applied to grass seed crops at 1.0 l/ha from the 3 true leaf stage of the crop. Applications must be made between 1<sup>st</sup> February and 30<sup>th</sup> September.

LEYSTAR may be applied at 1.0 litres/ha to grass less than one year old between 1<sup>st</sup> February and 31<sup>st</sup> August. Ensure grass has become established before spraying. Grass sown in the spring or summer may be ready for spraying after about 2 months, but grass sown in late summer or autumn should not be sprayed until growth is resumed in the following spring, perhaps eight months after sowing.

Apply LEYSTAR in 150 – 400 litres of water per hectare.

#### **WEED SUSCEPTIBILITY AND MAXIMUM SIZE CONTROLLED**

One application of 1.0 L/ha of LEYSTAR 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*	1 true leaf
Creeping thistle (from seed)	Moderately susceptible (1 true leaf)
Scented mayweed	1 true leaf
Scentless mayweed	1 true leaf
Volunteer oilseed rape	1 true leaf
Charlock	1 true leaf

\* Cleavers which germinate after application will not be controlled

#### **Forage Maize**

LEYSTAR may be applied when forage maize is between the 3-6 leaf stage and before the crop is over 20 cm tall. Do not apply once the buttress roots (side roots) have started to develop on the first node.

LEYSTAR may be applied to forage maize at a maximum dose rate of dose rate of 1.0 L/ha. One application of 1.0 L/ha of LEYSTAR will control all susceptible emerged weeds. For optimum performance it is important to check the size of weeds before application.

Apply LEYSTAR in 150 – 400 litres of water per hectare.

Weed	Maximum weed size controlled
Cleavers*	1 true leaf
Scented mayweed	1 true leaf
Scentless mayweed	1 true leaf
Creeping thistle	Moderately susceptible (1 true leaf)
Volunteer oilseed rape	1 true leaf
Charlock	1 true leaf

\* Cleavers which germinate after application will not be controlled

Do not apply in tank mix with any other product or if the crop is beyond the recommended growth stage. Avoid boom overlap.

#### **WATER VOLUME**

For overall application apply LEYSTAR in 150 to 400 litres of water per hectare. For knapsack application apply LEYSTAR in 2 litres of water per 100 m<sup>2</sup>.

#### **APPLICATION EQUIPMENT**

LEYSTAR 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.

#### **MIXING**

Half fill the spray tank with water and add the required amount of LEYSTAR. 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 LEYSTAR as a MEDIUM spray as defined by the BCPC system.

#### **TANK CLEANING**

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

1. Immediately after spraying, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.

2. Rinse inside of tank with clean water and flush through booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
3. Half fill tank with clean water and add All Clear Extra at the recommended rate. Agitate and then briefly flush the booms and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the booms 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 booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
6. For disposal of washings, follow The 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.

#### **Dow AgroSciences Conditions of Supply**

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or 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. No responsibility will be accepted by us or re-sellers 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.

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



<http://uk.dowagro.com/wp-content/uploads/LEYSTAR-SDS.pdf>

**Alternatively contact your supplier**

SPECIMEN

**THIS PAGE HAS BEEN LEFT  
BLANK INTENTIONALLY**

## SAFETY PRECAUTIONS

### Operator protection:

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

- Operators must wear suitable protective clothing (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate.
- Operators must wear suitable protective gloves when handling contaminated surfaces.
- Operators must wear suitable protective clothing (coveralls) and suitable protective gloves when applying by hand-held equipment.

However, engineering controls may replace personal protective equipment if a COSHH 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 yards and roads. Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

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 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water.

This product qualifies for inclusion within the Local Environment 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's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Livestock must be kept out of treated areas. IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.

### Storage and disposal:

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.



Product Registration Number: MAPP 17921

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 GRASSLAND, GRASS FOR SEED and FORAGE MAIZE for the control of DAISY, DANDELION, CLOVER, BUTTERCUP, RIBWORT PLANTAIN and other broad-leaved weeds.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.**

**SHAKE WELL BEFORE USE.**

**PROTECT FROM FROST.**

Pack size: 2 Litres e

Dow AgroSciences Limited

CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE.

Telephone: (01462) 457272 Fax: (01462) 426605

24 Hour Emergency Telephone Number: +44 (0) 1553 761 251

© Trademark of The Dow Chemical Company ("Dow")  
or an affiliated company of Dow

This label is compliant with the CPA Voluntary Initiative Guidance.



Product Identifier according to Art.18 of Reg. (EC) No 1272/2008 (CLP): Leystar®; Hydrocarbons, C10-C13, aromatics, <1% naphthalene

### Danger

May be fatal if swallowed and enters airways.

Causes skin irritation.

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.

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 non-hazardous waste.

**TO AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.**

## IMPORTANT INFORMATION.

**FOR USE ONLY AS AN AGRICULTURAL HERBICIDE**

**Situation:** Grassland (established), Grassland (newly sown), Grassland (seed), Forage maize

**Maximum Individual Dose:** }

**Maximum Number of Application:** } Full details are given in the Important Information area on the attached leaflet

**Latest Timing of Application:** }

**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.**