

# LECTOR® Herbicide

For use as a post emergence herbicide for the control of cleavers and other broad leaved weeds in winter wheat, winter barley, rye, triticale and winter oats, spring wheat, spring barley and spring oats. **LECTOR® is a suspension concentrate formulation containing 50 g/l (4.81 % w/w) florasulam**  
Product registration Number MAPP 16565

To access the Safety Data Sheet for this product scan the QR code or use the website below:  
<http://www.headland-ag.co.uk/products/division/agrifa-002>  
Alternatively, contact your supplier.



## IMPORTANT INFORMATION - FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Crop	Maximum Individual Dose	Max Total Dose	Latest time of Application
Winter wheat, barley, rye, triticale and oats	150 ml/ha	150 ml/ha	Up to and including flag leaf ligule just visible stage. (GS 39 inclusive)
Spring wheat, barley and oats	150 ml/ha	150 ml/ha	Up to and including flag leaf ligule just visible stage. (GS 39 inclusive)



### VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.  
To avoid risks to human health and the environment, comply with the instructions for use.

### WARNING

Avoid release to the environment.  
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 non-hazardous waste.  
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.

**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.**

**Net contents: 0.5 litre**

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

## SAFETY PRECAUTIONS

### Operator protection

WHEN USING DO NOT EAT, DRINK OR SMOKE.

### Environmental Protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.  
Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

### Other Specific Restrictions

The total amount of florasulam applied to a cereal crop must not exceed 7.5 g.

### Storage and disposal

STORE IN THE ORIGINAL CONTAINER in a cool, dry and well-ventilated place.  
PROTECT FROM EXCESSIVE HEAT AND COLD.  
DO NOT STORE NEAR FOOD, DRINK, ANIMAL FEEDING STUFFS, PHARMACEUTICALS, COSMETICS OR FERTILISERS.  
KEEP OUT OF REACH OF CHILDREN.  
RINSE CONTAINER THOROUGHLY using an integrated pressure washer or by manually rinsing three times.  
Empty washings into spray tank and dispose of safely.

**PROTECT FROM FROST  
SHAKE WELL BEFORE USE**

**Made in Denmark**

**Batch Number: See neck of bottle**

  
**Headland**

Distributed in the UK by:  
**Headland Agrochemicals Ltd.**  
Rectors Lane, Pentre, Flintshire, CH5 2DH, UK.  
Tel: + 44 (0) 1244 537370 Fax: + 44 (0) 1244 532097  
E-mail: [flintshire.enquiry@fmc.com](mailto:flintshire.enquiry@fmc.com)  
[www.headlandcropputrition.com](http://www.headlandcropputrition.com)

Approval Holder:

 **CHEMINOVA**  
A SUBSIDIARY OF FMC CORPORATION

Chemnova A/S, P.O.Box 9,  
DK-7620 Lemvig, Denmark  
Tel. 0045 9690 9690, Fax 0045 9690 9691  
[www.cheminova.com](http://www.cheminova.com)



**The Voluntary Initiative**

This label is compliant with the CPA Voluntary Initiative guidance.

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**DIRECTIONS FOR USE**

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

**Crops**

LECTOR® can be applied in the spring and autumn on all varieties of winter wheat, barley, oats, triticale and rye and spring wheat, barley and oats.

**Notes**

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

LECTOR® is mainly absorbed by the leaves of the weeds and as such can be applied on all soil types.  
Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

**Restrictions/Warnings****Crop Failure**

In the event of crop failure in the spring after an application of LECTOR®, only the following crops may be planted: spring wheat, spring barley, spring oats, maize or ryegrass.

**Following Crops**

Only the following crops can be sown in the same year as a crop treated with LECTOR® is harvested: cereals, oilseed rape, field beans, 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.

Only the following crops can be sown in the calendar year following treatment with LECTOR®: 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.

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

**Water Volume**

Apply LECTOR in 150-300 l/ha of water. The lower volume must only be used in open crops on small weeds.

**Mixing and Application**

Half fill the spray tank with clean water and add the required amount of LECTOR®. Add the remainder of the water and continue agitation until spraying is completed.

When tank mixes are to be 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, solution concentrate. Each product should be added separately to a half filled spray tank and fully dispersed before the addition of the next product

LECTOR® may be applied through tractor-mounted hydraulic sprayers and knapsack sprayers providing they are in good working order and have been calibrated according to the manufacturers' recommendations.

Do not apply through CDA applicators.

Apply LECTOR® as a MEDIUM spray as defined by the BCPC system.

**Joint Application**

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

**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 LECTOR®. A further application of LECTOR® or another product containing florasulam may be made **providing the maximum total dose of florasulam is not exceeded**. LECTOR® may be applied in joint application to the same cereal crop with one of the following ALS products.

Absolute	iodosulfuron-methyl sodium (Hussar MAPP 12364)
Accurate	Jubilee SX
Accurate Extra	Klaxon
Ally Express	Lancer
Ally Max SX	Lexus Class
Avro SX	Lexus Millennium
Biplay SX	Lexus SX
Bofix FFC <sup>1</sup>	Lorate
Boxer <sup>2</sup>	mesosulfuron-methyl + iodosulfuron-methyl sodium (Pacifica MAPP 12049, Atlantis WG MAPP 12478, Hatra MAPP 14524, Horus MAPP 14514, Octavian MAPP 14604)
Broadway Star <sup>3</sup>	mesosulfuron-methyl + iodosulfuron-methyl sodium+ diflufenican (Othello MAPP 12695)
Broadway Sunrise	Nuance
Bullion	Oklar SX
Calibre SX	Oriel SX
Chimera SX	Pelican Delta
Concert SX	Pinnacle
Finish SX	Presite SXRatio SX
Galaxy <sup>1</sup>	Slalom <sup>1</sup>
GEX 353	Starane Gold <sup>1</sup>
GF-184 <sup>4</sup>	Starane XL <sup>1</sup>
Harmony M SX	Starane Vantage <sup>1</sup>
Hiker <sup>4</sup>	Thor
Hunter <sup>1</sup>	Traton SX
Inka SX	

<sup>1</sup>The maximum total dose of florasulam applied to the crop must not exceed 7.5g. For autumn planted crops a maximum total dose of 3.75g of florasulam must be observed for applications made between crop emergence in the year of planting and February 1st in the year of harvest.

Apart from these specific joint applications LECTOR® must NOT be applied with any other product containing an ALS-inhibitor, for example amidosulfuron.

**Resistance:**

Florasulam is an ALS inhibitor. Herbicide Resistant Weeds Classification (HRAC), B.

Avoid using herbicides with a single mode of action, such as ALS herbicides, in the same fields over a number of years. Growers should apply products containing herbicides with different modes of action or use sequences or tank mixes where two or more components are active against the target weeds.

**Spring Application - Cereals****Winter wheat, barley, oats, triticale and rye and Spring wheat, barley and oats**

LECTOR® can be applied in the spring once the crop has reached 3 leaves (GS 13) up to and including flag leaf ligule just visible stage (GS 39 inclusive).

**Rate of application:** One application of up to 150 ml/ha will control all susceptible emerged weeds. A split application may be applied up to a maximum total dose of 150 ml/ha where weed germination takes place over an extended period.

**Weeds Controlled**

LECTOR® is most effective when applied to small, actively growing weeds. Larger weeds may be less susceptible. For optimum performance it is important to check the size of weeds before application.

Rate of Use	150 ml/ha	100 ml/ha	50 ml/ha
Cleavers	Up to 500 mm	200 mm	-
Common chickweed	-	Flowering	6 true leaves
Hedge mustard	-	100 mm	-
Scented mayweed	-	Flower buds visible	Rosette stage
Scentless mayweed	-	Flower buds visible	Rosette stage
Shepherd's purse	-	100 mm	-
Volunteer oilseed rape	-	Before flower buds visible	4 true leaves
Wild radish (Runch)	-	100 mm	-

**Autumn Application - Cereals****Winter wheat, barley, oats, triticale and rye**

LECTOR® should be applied in the autumn once the crop has reached 3 leaves (GS 13) up to and including flag leaf ligule just visible stage (GS 39 inclusive).

**Rate of application**

One application of up to 75 ml/ha will control all susceptible emerged weeds.

**Weeds Controlled**

LECTOR® is most effective when applied to small, actively growing weeds. Larger weeds may be less susceptible. For optimum performance it is important to check the size of weeds before application.

Rate of Use	75 ml/ha	50 ml/ha
Cleavers *	25 mm	25 mm
Common chickweed	50 mm	30 mm
Scented mayweed	50 mm	30 mm
Scentless mayweed	30 mm	30 mm
Volunteer oilseed rape	80 mm	60 mm

\* Moderately susceptible

**Tank cleaning procedure:** To avoid subsequent injury to crops other than cereals all spraying equipment must be thoroughly cleaned both inside and outside All Clear Extra spray cleaner as follows:

1. Immediately after spraying drain the tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside the 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 the tank with clean water and add the ammonium based cleaner at the recommended rate. Agitate and then briefly flush through 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 the ammonium based cleaning solution containing 50 ml of the ammonium based cleaner 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 on to sensitive crops or land intended for cropping with sensitive crops.

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

**SAFETY PRECAUTIONS**

**Operator protection:** WHEN USING DO NOT EAT, DRINK OR SMOKE

**Environmental Protection**

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

**Other Specific Restrictions:** The total amount of florasulam applied to a cereal crop must not exceed 7.5 g.

**Storage and disposal**

STORE IN THE ORIGINAL CONTAINER in a cool, dry and well-ventilated place.

PROTECT FROM EXCESSIVE HEAT AND COLD.

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KEEP OUT OF REACH OF CHILDREN

RINSE CONTAINER THOROUGHLY using an integrated pressure washer or by manually rinsing three times. Empty washings into spray tank and dispose of safely.

LECTOR® is a trade mark

