

SAFETY PRECAUTIONS

Operator 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.
To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

LERAP
B

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

Storage and disposal:

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.
THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

 Dow AgroSciences

Gartrel®

HERBICIDE

Product Registration Number: MAPP 16828

A suspension concentrate containing 300 g/litre (25.86% w/w) clopyralid and 25 g/litre (2.16% w/w) florasulam.

A post-emergence spring applied herbicide for use on all varieties of WINTER AND SPRING WHEAT, WINTER AND SPRING BARLEY, SPRING OATS, RYE, TRITICALE, DURUM WHEAT AND SPELT for the control of CLEAVERS, MAYWEED SPECIES, COMMON CHICKWEED 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: 1 litre e

Dow AgroSciences Limited

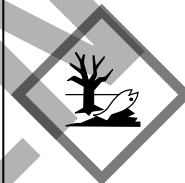
CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE.
Telephone: (01462) 457272 Fax: (01462) 426605
24 Hour Emergency Telephone Number: +44 (0) 1553 761 251

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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]: Gartrel®



WARNING

Very toxic to aquatic life with long lasting effects.

Avoid release to the environment.
Collect spillage.
Dispose of contents/container in accordance with applicable regulations.
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.

IMPORTANT INFORMATION.

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

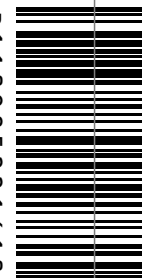
Crops	Maximum Individual Dose	Maximum Number of Applications	Latest Time of Application
Winter wheat, winter barley	0.2 litres product/ha	One per crop	Before flag leaf sheath extending (GS 39 inclusive)
Winter Rye, Winter Triticale, Winter Spelt	0.2 litres product/ha	One per crop	Before third node detectable stage (GS 32 inclusive)
Spring wheat, spring barley	0.2 litres product/ha	One per crop	Before flag leaf sheath extending (GS 39 inclusive)
Spring oats, Durum wheat	0.2 litres product/ha	One per crop	Before first node detectable stage (GS 30 inclusive)

Other Specific Restrictions:

Applications must not be made in the autumn or before 31st January.
For autumn planted crops a maximum total dose of 3.75 g of florasulam must be observed for applications made between crop emergence in the year of planting and February 1st in the year of harvest.
The total amount of florasulam applied to a cereal crop must not exceed 7.5 g.

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 0 9 8 5 2 2 1 6 1 0



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.

GENERAL INFORMATION

GARTREL 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 GARTREL may be reduced when soils are very dry. Cool weather conditions and prolonged periods without growth (up to 3 weeks after application) may delay the speed of activity.

NOTES

Avoid overlapping spray bouts.

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

Do not use manure from animals fed on crops treated with GARTREL 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 GARTREL 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 GARTREL.

GARTREL 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 GARTREL is harvested: Cereals, oilseed rape¹, grass and vegetable brassicas as transplants.

¹Vigour 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 GARTREL: 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.

CROP FAILURE

¹In the event of a crop failure in the spring with GARTREL only the following crops may be planted: spring wheat, spring barley, spring oats, maize or ryegrass.

RESISTANCE

GARTREL contains active ingredients with differing modes of action and therefore the risk of resistance building is 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 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

GARTREL can be applied in the spring on all varieties of winter and spring wheat, Durum wheat, winter and spring barley, spring oats, rye, triticale and Spelt.

SOIL

GARTREL may be used on all soil types.

APPLICATION TIMING-

Applications of GARTREL can be applied to the following crops.

Winter wheat, winter barley

GARTREL should be applied in the spring once the crop has reached 3 leaves (BBCH 13), up to and including the flag leaf fully unrolled stage (BBCH 39 inclusive).

Winter Rye, Winter Triticale and Winter Spelt

GARTREL should be applied in the spring once the crop has reached 3 leaves (BBCH 13), up to and including the second node detectable stage (BBCH 32 inclusive).

Spring wheat, spring barley

GARTREL should be applied in the spring once the crop has reached 3 leaves (BBCH 13), up to and including the flag leaf fully unrolled stage (BBCH 39 inclusive).

Spring oats, Durum wheat

GARTREL should be applied in the spring once the crop has reached 3 leaves (BBCH 13), up to and including the beginning of stem elongation; ear at 1cm (BBCH 30 inclusive).

WEED SUSCEPTIBILITY

One application of 0.2 L/ha of GARTREL 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	Susceptibility
Black Bindweed	2 leaves	S
Cleavers	200 mm	S
Charlock	100 mm	S
Common chickweed	Flowering	S
Field forget me not	Beginning of stem elongation	MS
Poppy	Before stem elongation	MS
Scented mayweed	Up to flowering	S
Scentless mayweed	Up to flowering	S
Shepherd's-purse	100 mm	S
Volunteer oilseed rape	100 mm	S
Wild radish (Runch)	100 mm	S

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 GARTREL. A further application of GARTREL or another product containing florasulam may also be made **providing the maximum total dose of florasulam is not exceeded¹**.

GARTREL may be applied in joint application to the same cereal crop with one of the following ALS products:

Absolute	Jubilee SX
Alias	Lancer
Alias SX	Lexus Class
Ally Express	Lexus Millenium
Ally Max SX	Lexus SX
Ally SX	Lorate
Avro SX	mesosulfuron-methyl + iodosulfuron-methyl sodium (MAPP 12049, 12478)
Biplay SX	mesosulfuron-methyl + iodosulfuron-methyl sodium + diflufenican (MAPP 12695)
Broadway Star ¹	Myriad
Broadway Sunrise ¹	Octavian
Bullion	Oklar SX
Calibre SX	Oriel SX
Chimera SX	Parana
Cleancrop Mondial	Pinnacle
Concert SX	Presite SX
Ductis SX	Quantum SX
Exceed SX	Ratio SX
Finish SX	Seduce
Galaxy ¹	Simba SX
GF-184 ¹	Slalom ¹
GF-2070	Spitfire ¹
Gropper SX	Staka SX
Harmony M SX	Starane Gold ¹
Harmony SX	Starane Vantage ¹
Hatra	Starane XL ¹
Hiker ¹	Taxi
Horus	Thor
Hunter ¹	Traton SX
Inka SX	Triad
iodosulfuron-methyl sodium (MAPP 12364, 15174)	

¹ The maximum total dose of florasulam applied to the crop must not exceed 7.5 g. For autumn planted crops a maximum total dose of 3.75 g 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 GARTREL must NOT be applied with any other product containing an ALS-inhibitor.

The maximum total amount of florasulam that can be applied to the same field must not exceed 7.5 gai/ha. If florasulam containing products such as Broadway Star or Spitfire are applied in the autumn, ensure that the total amount of florasulam does not exceed 7.5 gai/ha.

APPLICATION

GARTREL may be applied through tractor-mounted hydraulic sprayers providing they are in good working order and have been calibrated according to the manufacturers' recommendations and as advised by NSoRO (National Register of Sprayer Operators).

WATER VOLUME

Apply GARTREL in 100 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 GARTREL. 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 GARTREL as a FINE to 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 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.

TRADEMARK ACKNOWLEDGEMENTS

GARTREL, Broadway, Galaxy, Hiker, Hunter, Slalom, Sunrise, Spitfire and Starane are trademarks of Dow AgroSciences LLC.

All other brand names used in this document are trademarks of other manufacturers in which proprietary rights may exist.

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/GARTREL-SDS.pdf>

Alternatively contact your supplier

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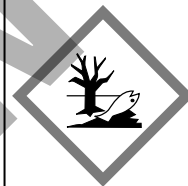
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