

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 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 farmyards and roads).

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 label is compliant with the CPA Voluntary Initiative Guidance.



Dakota[®]

HERBICIDE

TM Trademarks of Corteva Agriscience and its affiliated companies.

GROUP 2 4 HERBICIDES

Product Registration Number: MAPP 19179

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

A post-emergence herbicide for use on all varieties of WINTER AND SPRING WHEAT, BARLEY, OATS, RYE, SPELT, DURUM WHEAT and WINTER TRITICALE and these crops UNDERSOWN WITH GRASS for the control of CLEAVERS, 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

Authorisation Holder:

Corteva Agriscience UK Limited

CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE

Telephone: (01462) 457272

24 Hour Emergency Telephone Number: +44 (0) 161 88 41235

Technical Hotline: 0800 689 8899 or e-mail: ukhotline@corvea.com

National Poisons Information Service: 111

NET CONTENTS : 5 LITRES e

DAKOTA[®]
Contains Hydrocarbons, C10-C13 aromatics, <1% naphthalene
UFI : WYS3-D04J-E008-J9X8



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.

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.

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

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops/Situations :

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), 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), Oats (winter), oats (winter, undersown with grass), oats (spring), oats (spring, undersown with grass).

Maximum Individual Dose:

Maximum Number of Treatments: } Full details are given in the Important Information

Latest Time of Application: } on the attached leaflet

Other Specific Restrictions: }

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.

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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 A PROFESSIONAL HERBICIDE

Crops/situations:	Maximum individual dose: (l product / ha)	Maximum number of treatments: (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	1	Before flag leaf sheath extending (GS39)
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	1	Before flag leaf sheath extending (GS39)
Oats (winter), oats (winter, undersown with grass), oats (spring), oats (spring, undersown with grass).	1	1	Before second node detectable stage (GS31)

Other Specific Restrictions:

Applications to cereals must only be made between February 1st and June 30th.

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

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

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GENERAL INFORMATION

DAKOTA 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 DAKOTA may be reduced when soils are very dry.

NOTES

Avoid overlapping spray bouts.

DO NOT use any plant material treated with DAKOTA for composting or mulching.

DO NOT use manure from animals fed on crops treated with DAKOTA 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 DAKOTA 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 DAKOTA.

DAKOTA 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 DAKOTA 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 DAKOTA: 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.

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 DAKOTA. However a further application of another product containing florasulam may also be made **providing the maximum total dose of florasulam is not exceeded**¹. Products containing fluroxypyr and/or clopyralid must not be tank mixed with 'DAKOTA'.

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

Alias SX	Inka SX
Ally Max SX	Jubilee SX
Ally SX	Lorate
Answer SX	Mozaic SX
Atlantis OD	Nevada ^{1,2}
Avocet	Omnera ² LQM
Avro SX	Othello
Barton WG ¹	Palio ¹
Biplay SX	Parana
Boxer ¹	Pennant
Broadway Star ¹	Pinnacle
Calibre SX	Presite SX
Chekker	Provalia ² LQM
Chimera SX	Quantum SX
Concert SX	Ratio SX
Cleancrop Mondial	Refine Max SX
DP 911 SX	Seduce
Finish SX	Simba SX
Gartrel ^{1,2}	Slalom ^{1,2}
GF-184 ^{1,2}	Spitfire ^{1,2}
Gropper SX	Starane XL ^{1,2}
Hamlet	Taxi
Harmony M SX	Thor

Hatra	Traton SX
Horus	Triad
Hunter ^{1,2}	Zypar ¹

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.

² Products containing fluroxypyr and/or clopyralid must not be tank mixed with 'DAKOTA'.

Apart from these specific joint applications DAKOTA must NOT be applied with any other product containing an ALSinhibitor, for example amidosulfuron.

CROP FAILURE

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

RESISTANCE

DAKOTA contains active ingredients with differing modes of action (HRAC Groups 2+4) 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

DAKOTA can be applied in the spring on all varieties of winter and spring cereals.

SOIL

DAKOTA may be used on all soil types.

APPLICATION TIMING

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

DAKOTA should be applied from the 1st February once the crop has reached 3 leaves (Zadoks 13), up to before the flag leaf sheath extending stage (Zadoks 39).

Spring sown cereals (wheat, barley, rye, Durum wheat)

DAKOTA should be applied from the 1st February once the crop has reached 3 leaves (Zadoks 13), up to before the flag leaf sheath extending stage (Zadoks 39).

Winter and spring sown oats

DAKOTA should be applied from the 1st February once the crop has reached 3 leaves (Zadoks 13), up to before second node detectable stage (Zadoks 31).

Winter cereals, except oats undersown with grass

DAKOTA should be applied from 1st February once the crop has reached 3 leaves (Zadoks 13) up to before the flag leaf sheath extending stage (Zadoks 39).

Spring cereals, except oats undersown with grass

DAKOTA should be applied from 1st February once the crop has reached 3 leaves (Zadoks 13), up to before the flag leaf sheath extending stage (Zadoks 39).

Winter and spring sown oats, undersown with grass

DAKOTA should be applied from the 1st February once the crop has reached 3 leaves (Zadoks 13), up to before second node detectable stage (Zadoks 31).

WEED SUSCEPTIBILITY AND MAXIMUM SIZE CONTROLLED

One application of 1.0 L/ha of DAKOTA 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	120-150 mm
Common chickweed	100 mm
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
Scentsless mayweed	Rosette
Shepherd's-purse	4 true leaves
Volunteer oilseed rape	4 true leaves
Wild radish (Runch)	4 true leaves

APPLICATION

DAKOTA may be applied through tractor-mounted hydraulic 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 DAKOTA 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 DAKOTA. 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 DAKOTA as a MEDIUM spray as defined by the BCPC system.

TANK MIXTURES

For details on compatibilities contact your distributor or Corteva technical hotline on +44 (0) 800 689 8899 or ukhotline@corteva.com

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 spray lines 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 booms and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with tank cleaning solution.

5. Rinse the tank with clean water and flush through the spray lines 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.

COMPANY ADVISORY INFORMATION

The following information does not form part of the product label under the UK plant protection products regulations and provides additional advice on product use at the discretion of Corteva Agriscience.

TRADEMARK ACKNOWLEDGEMENTS

DAKOTA, Barton, Boxer, Broadway, Gartrel, Hunter, Slalom, Spitfire, Starane and Zypar are trademarks of Corteva Agriscience and its affiliated companies.

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

CORTEVA AGRISCIENCE 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:



<https://www.corteva.co.uk/content/dam/dpagco/corteva/eu/qb/en/files/sds/DAKOTA-SDS.pdf>

Alternatively contact your supplier

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CORTEVA
agriscience



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Causes serious eye irritation

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IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops/Situations :

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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).

Oats (winter), oats (winter, undersown with grass), oats (spring), oats (spring, undersown with grass).

Maximum Individual Dose:

Maximum Number of Treatments:

Latest Time of Application:

Other Specific Restrictions:

} Full details are given in the Important Information on the attached leaflet

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NET CONTENTS : 5 LITRES e