

## 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.

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.

### 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	1.5 litres product/ha	One per year	Before flag leaf detectable stage (GS 37 inclusive)
Spring wheat, spring barley	1.5 litres product/ha	One per year	Before third node detectable stage (GS 32 inclusive)
Winter oats, spring oats	1.5 litres product/ha	One per year	Before second node detectable stage (GS 31 inclusive)

#### Other Specific Restrictions:

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 1<sup>st</sup> 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.**



This label is compliant with the CPA Voluntary Initiative Guidance.



Dow AgroSciences



# Dakota

## HERBICIDE

Product Registration Number: MAPP 16121.

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 all varieties of WINTER AND SPRING WHEAT, BARLEY AND OATS 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.**



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**Dow AgroSciences Limited**  
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Telephone: 01462 457272  
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24 Hour Emergency  
Telephone Number: 01553 761 251  
For Technical Enquiries Call: 0800 6898899

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



### 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/protective clothing/eye protection/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.**

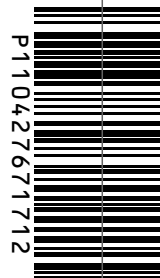
**Pack size: 5 litres** e



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/DAKOTA-SDS.pdf>

Alternatively contact your supplier.



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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.

### 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 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 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 DAKOTA or another product containing florasulam may also be made **providing the maximum total dose of florasulam is not exceeded**<sup>1</sup>.

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

Absolute	iodosulfuron-methyl sodium (MAPP 12364, 15174, 16173)
Alias	Jubilee SX
Alias SX	Lancer
Ally Express	Lexus Class
Ally Max SX	Lexus Millennium
Ally SX	Lexus SX
Answer SX	Lorate
Avocet	mesosulfuron-methyl + iodosulfuron-methyl sodium (MAPP 12049, 12478)
Avro SX	mesosulfuron-methyl + iodosulfuron-methyl sodium + diflufenican (MAPP 12695, 16149)
Biplay SX	Mozaic SX
Broadway Star <sup>1</sup>	Octavian
Broadway Sunrise	Oklar SX
Bullion	Oriel 50SX
Calibre SX	Parana
Chimera SX	Pennant
Concert SX	Pinnacle
Cleancrop Mondial	Presite SX
Dakota <sup>1</sup>	Quantum SX
Ductis SX	Ratio SX
Excalibur	Refine Max SX
Exceed SX	Seduce
Finish SX	Simba SX
Galaxy <sup>1</sup>	Stalom <sup>1</sup>
GF-184 <sup>1</sup>	Spitfire <sup>1</sup>
GF-2070	Staka SX
Gropper SX	Starane Gold <sup>1</sup>
Harmony M SX	Starane Vantage <sup>1</sup>
Harmony SX	Starane XL <sup>1</sup>
Hatra	Taxi
Hiker <sup>1</sup>	Thor
Horus	Traton SX
Hunter <sup>1</sup>	Triad
Inka SX	Unite

<sup>1</sup> 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 1<sup>st</sup> in the year of harvest.

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

### 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 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 wheat (but not Durum wheat), winter and spring barley and winter and spring oats.

### SOIL

DAKOTA may be used on all soil types.

### APPLICATION TIMING

#### Winter wheat, winter barley

DAKOTA should be applied in the spring once the crop has reached 3 leaves (GS 13), up to and including flag leaf sheath visible stage (GS 37 inclusive).

#### Spring wheat, spring barley

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

#### Winter oats, spring oats

DAKOTA should be applied in the spring once the crop has reached 3 leaves (GS 13), up to and including the before second node detectable stage (GS 31 inclusive).

### WEED SUSCEPTIBILITY AND MAXIMUM SIZE CONTROLLED

One application of 1.5 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)	250 mm
Field forget me not	150 mm
Scented mayweed	200 mm
Scentless mayweed	200 mm
Shepherd's-purse	80 mm
Volunteer oilseed rape	4 true leaves
Wild radish (Runch)	50 mm

## APPLICATION

DAKOTA 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.

## WATER VOLUME

Apply DAKOTA in 150 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

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

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All other brand names are trademarks of other manufacturers for which proprietary rights may exist.

## DOV 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.

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24 Hour Emergency

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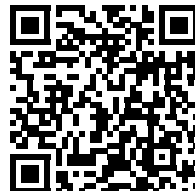
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