

Pelican Delta

A water-dispersible granule containing 60% w/w diflufenican and 6% w/w metsulfuron-methyl. A herbicide for post-emergence control of broad-leaved weeds in the spring in winter wheat and winter and spring barley.
MAPP Number 14312

To access the Safety Data Sheet for this product, scan the QR code or use the website below:
<http://www.headland-ag.co.uk/product-downloads.asp?id=455>
Alternatively, contact your supplier.



PEEL BACK FOR DIRECTIONS FOR USE LEAFLET

Product identifier: Diflufenican 60% / Metsulfuron-methyl 6%
Contains: Diflufenican and metsulfuron-methyl

DANGER

Causes skin irritation

Causes serious eye damage

Very toxic to aquatic life with long lasting effects

Wear protective gloves.

Wear eye protection.

Wash thoroughly after handling.

Avoid release to the environment.

IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash before re-use.

If skin irritation occurs, seek medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Collect spillage.

Dispose of contents/container in accordance with local regulations.



IMPORTANT INFORMATION

FOR OR USE ONLY AS AN AGRICULTURAL HERBICIDE

Conditions of Use

Crops: Winter wheat, winter barley, spring barley

Maximum Individual Dose: 100 g/ha.

Maximum Number of Treatments: One per. crop.

Latest Time of Application: Up to and including 'flag leaf ligule just visible' stage (BBCH 39).

Other Specific Restriction: This product may only be applied from February 1st up to the specified latest time 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.

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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

PELICAN DELTA is a highly active herbicide containing the active ingredients diflufenican and metsulfuron-methyl. It has contact and residual activity for post-emergence control of a wide range of broad-leaved weeds in the spring in winter wheat and winter and spring barley.

Cautions

Avoid treating crops suffering from stress resulting from drought, waterlogging, low temperatures, pest and disease attack or micronutrient deficiency.

Do not apply to frosted crops. Sharp or severe frosts following application may cause crop scorch from which the crop will normally recover.

Do not apply to cereal crops undersown with grass, clover, other legumes or any other broad-leaved crop.

Do not harrow treated crops at any time after application; do not roll crops within 7 days before or after application of PELICAN DELTA.

Do not use on crops being grown for seed.

Take extreme care to avoid damage by drift onto broad-leaved plants outside the target area, or onto ponds, waterways or ditches. Thorough cleaning of the spraying equipment after use is also very important – see 'Spray Tank Clean-out', below.

Avoid overlapping spray swaths.

Do not apply Pelican Delta to any cereal crop in tank-mixture or sequence with a product containing any sulfonylurea or ALS-inhibiting herbicide except as detailed in 'Sequential Treatments' below.

Soil Types and Weather Conditions

PELICAN DELTA can be applied to all soils except those containing more than 10% organic matter. The speed of activity of PELICAN DELTA is dependent upon temperature and can be less in cool weather. Weed control may also be reduced if the soil is very dry. For best results, soil should be moist at and after application. Seed beds should be fine and firm and should not contain clods greater than fist size.

Crops Treated and Time of Application

PELICAN DELTA can be applied to winter wheat and winter and spring barley from February 1st, provided the crop has at least 2 true leaves (3 true leaves for barleys).

Do not apply after the 'flag leaf ligule just visible' stage (BBCH 39). Best results will be obtained from applications to small, actively growing weeds in the spring.

Rate of Application

Rates of Application and Weeds Controlled

Weed species	Weed growth stage		
	Plants up to 2 expanded true leaves*	Plants up to 6 expanded true leaves*	Plant up to 15 cm across/high*
Black-bindweed	MS	MR	R
Buttercup, Creeping	S	MS	R
Charlock	S	S	S
Chickweed, Common	S	S	MS
Corn Marigold	S	S	MS
Corn Spurrey	S	S	S
Cranes-Bill, Dove's-Foot	S	S	-
Dead-nettle, Red	S	S	MS
Docks	S	S	S
Fat-hen	S	MR	R
Field-speedwell, Common	S	S	MS
Forget-me-not, Field	S	S	MS
Fool's Parsley	S	S	MS
Hemp-Nettle, Common	S	S	S
Knotgrass	S	MS	MS
Mayweeds	S	S	S
Nettle, Small	S	S	-
Nipplewort	S	S	-
Orache, Common	MS	R	R
Pale Persicaria	S	S	S
Pansy, Field	S	S	MS
Parsley-Piert	S	S	S
Poppy, Common	S	S	MS
Redshank	S	S	S
Scarlet Pimpernel	S	S	S
Shepherd's-purse	S	S	S
Sowthistle, Smooth	S	S	-
Speedwell, Ivy-leave	MS	MS	-
Sun Spurge	S	MS	-
Thistle, Creeping	MS	MS	MS
Volunteer Oilseed Rape	S	S	-
Volunteer Sugar-beet	S	S	S
Wild Mignonette	S	MS	MR

* S=Susceptible, MS=Moderately susceptible, MR=Moderately resistant, R=Resistant

Weed resistance

When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is

considered resistant to a herbicide if it survives correctly applied treatment at the recommended dose.

Development of resistance within a weed species can be avoided or delayed by sequencing or tank-mixing with suitable products having a different mode of action. PELICAN DELTA contains both metsulfuron-methyl, a sulfonyleurea which acts via ALS inhibition and diflufenican, a carotenoid biosynthesis inhibitor. Do not use ALS inhibitors as a sole means of broad-leaved weed control in successive years. Do not apply PELICAN DELTA in tank mix or sequence with any other herbicide containing an ALS-inhibitor except as detailed in 'Sequential Treatments' below.

A strategy for preventing and managing resistance should be adopted. The Weed Resistance Action Groups have produced guidelines and copies are available from HGCA, CPA, your distributor, crop adviser or product manufacturer.

Sequential Treatments

PELICAN DELTA may be applied as a sequential treatment with certain other 'ALS-inhibiting' herbicides, to improve the spectrum of activity, provided always that each product is applied within the label recommendations for its use.

PELICAN DELTA may be applied in sequence with the following herbicides:

Atlantis	(MAPP 12478)
Barton WG	(MAPP 13284)
Boxer	(MAPP 09819)
Bullion	(MAPP 14058)
Eagle	(MAPP 07318)
Galaxy	(MAPP 13127, MAPP 14085)
GF-184	(MAPP 10878)
Hiker	(MAPP 11451)
Hunter	(MAPP 12836)
Lexus Class	(MAPP 10809)
Lexus Millennium	(MAPP 09206)
Pacifica	(MAPP 12049)
Pursuit	(MAPP 07333)
Starane Gold	(MAPP 10879)
Starane Vantage	(MAPP 10922)
Starane XL	(MAPP 10921)

Always follow requirements and restrictions on the labels of other products when making sequential applications.

Water Volume

Apply using a conventional hydraulic ground sprayer in 200 – 400 litres of water/ha. Use the higher water volume where the crop is dense to ensure adequate weed coverage. A spray pressure of at least 2 bar (30 psi) is advised.

Spray Quality

Apply PELICAN DELTA as a 'medium' spray (as defined by BCPC).

Mixing and Application

Half-fill the spray tank with clean water and begin agitation. Add the required quantity of PELICAN DELTA to the water. Rinse the empty container thoroughly with water and add the rinsings to the tank. Complete the filling and apply without delay. Maintain agitation while travelling and throughout the spraying operation.

Good even coverage of the soil and weeds is essential.

Wash out the sprayer thoroughly after use using the procedure detailed in 'Spray Tank Clean-out' below.

Following Crops

Only cereals, oilseed rape, field beans or grass may be sown in the same calendar year to succeed a cereal crop treated with PELICAN DELTA. Soil must be ploughed before drilling or sowing following crops. As a precaution, users who rent out their land to growers should not use diflufenican-containing products in successive years before renting out the land.

In a crop failure situation, only re-drill with winter wheat or winter barley after ploughing. Other following crops must not be planted until at least 12 weeks have elapsed after the initial application of diflufenican.

Compatibility

PELICAN DELTA is incompatible with formulations of chlorpyrifos. Allow at least 14 days between applications of PELICAN DELTA and chlorpyrifos-containing products.

Spray tank clean-out

To avoid subsequent damage to crops other than cereals, thoroughly remove all traces of PELICAN DELTA from spraying equipment immediately after spraying, using the following procedure:

1. Immediately after spraying, drain tank completely. Wash any contamination off the outside of the sprayer with clean water.
2. Rinse inside of tank with clean water and flush at least one tenth of the spray tank volume through the boom and hoses. Drain tank completely.
3. Half-fill the tank with clean water and add the correct quantity of ALL CLEAR™ EXTRA. Agitate and then flush the boom and hoses with the solution. Top up completely with water and allow to stand for 15 minutes with agitation. Again flush the boom and hoses and drain tank completely (if it is not possible to drain tank completely, repeat step 3 before going on).
4. Remove nozzles and filters and soak in a bucket containing 50ml ALL CLEAR™ EXTRA per 10 litres water.
5. Rinse tank again with clean water and flush at least one tenth of the tank volume through the boom and hoses. Drain tank completely.
6. For disposal of washings, follow the Code of Practice for the Safe Use of Pesticides on Farms and Holdings. Do not spray onto sensitive crops or land intended for planting with sensitive crops.

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

Safety Precautions

Operator Protection

WASH CONCENTRATE from skin or eyes immediately

WASH HANDS AND EXPOSED SKIN before meals and after work

DO NOT BREATHE SPRAY

WHEN USING DO NOT EAT, DRINK OR SMOKE

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.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 7 metres of the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water. THIS CROP IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYERS SCHEME.

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 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 CONTAINERS for any purpose

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