

Duplosan KV

A soluble concentrate containing 600 g/l (48% w/w) optically active isomer mecoprop-P, formulated as potassium salt.

A herbicide for the control of a wide range of broadleaved weeds in winter and spring cereals, grass seed crops, amenity grassland and managed amenity turf.

PRODUCT BENEFITS

- Controls many important weeds in cereals including Cleavers and Chickweed in a range of cereal crops.
- Works in cooler conditions.
- Flexible tank mix product.
- Control of Volunteer oilseed rape.
- Amenity grassland and managed amenity turf recommendation.

Lerap category: Unclassified

Pack size: 10 litres

Storage: PROTECT FROM FROST



Grow a better tomorrow.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL HERBICIDE.

Crop	Maximum individual dose	Maximum no. of treatments	Latest time of application
Winter wheat, winter barley, winter oats	2.3 l/ha	One per crop	Before third node detectable
Spring wheat, spring barley, spring oats			Before first node detectable
Amenity grassland	2.4 l/ha	Two per year	–
Grass (seed crops)	2.5 l/ha	One per crop	Five weeks before emergence of seed head
Managed amenity turf	2.4 l/ha	Two per year	–

Other specific restrictions:

- Treated grass seed crops must not be grazed or cut for fodder.
- Applications to cereals must not be made between 1 October and 1 March.
- The total amount of mecoprop-P applied to an individual crop, or in a single year in the case of a perennial crop, must not exceed the maximum total dose of mecoprop-P approved for application to that crop by any single mecoprop-P containing product.

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.

MAPP 13971

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

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.

DUPLOSAN KV is a hormone herbicide which is absorbed by both shoots and roots and rapidly translocated within herbaceous plants.

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 to be resistant to a herbicide if it survives a correctly applied treatment at the recommended dose. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

RESTRICTIONS

Spring cereals and grass seed crops may only be treated once per crop.

DO NOT apply DUPLOSAN KV to any crop suffering from herbicide damage or physical stress.

DO NOT apply DUPLOSAN KV during cold weather, periods of drought, if rain or frost are expected, nor if the crop is wet.

If sharp or severe frosts occur within three to four weeks of application to barley under stress or of low vigour on light soils, scorch or stunting may occur and yields may be less than optimum.

The crop should not be rolled or harrowed within a period of seven days before or after spraying with DUPLOSAN KV.

Avoid drift onto all broadleaved plants outside the target area.

WASH EQUIPMENT thoroughly immediately after use. Rinse with water three times, drain and allow to dry. Traces of herbicide left in the sprayer may damage susceptible crops if these are subsequently sprayed using the same equipment.

WEEDS CONTROLLED

The best weed control will be achieved if crops are sprayed in conditions when weeds are actively growing, provided the crop is within the correct growth stages.

Identify the weeds present and select the appropriate rate as listed below. Optimum conditions prevail when all the following are true:

1. Soils are warm and moist.
2. Weeds have not been frost-hardened.
3. Warm, moist conditions are expected to persist for several days after application.

This is particularly important when DUPLOSAN KV is used in the spring to control large autumn germinated cleavers, which may have become winter hardened.

Provided weeds are cotyledon to two leaves and application conditions meet the requirements listed above, susceptible species will be controlled at the rates recommended below.

If weeds are three to six leaves or conditions are less than optimum, using a higher rate will still control susceptible species. For optimum suppression of perennial weeds and species classed as moderately susceptible, apply DUPLOSAN KV at 2.3 l/ha.

Weeds	Dose Rate		
	1.5 l/ha	2.0 l/ha	2.3 l/ha
Chickweed, common*	S		
Fat hen	S		
Pennycress, field	S		
Buttercup, corn	–	MS	
Charlock	–	S	
Cleavers	–	S	
Mouse-ear, common	–	S	
Mustard, black	–	S	
Mustard, treacle	–	S	
Mustard, white	–	S	
Nettle, small	–	S	
Plantain, greater	–	S	
Plantain, ribwort	–	S	
Radish, wild	–	S	
Shepherd's purse	–	S	
Bindweed, black	–	–	MR
Buttercup, creeping	–	–	SP
Campion, white	–	–	SP
Cranesbill, cut-leaved	–	–	MR
Cranesbill, dove's-foot	–	–	MS
Deadnettle, red	–	–	MS
Docks	–	–	SP
Forget-me-not, field	–	–	R
Fumitory, common	–	–	MS
Groundsel	–	–	MR
Hempnettle, common	–	–	MR
Knotgrass	–	–	MR
Marigold, corn	–	–	R
Mayweed, scented	–	–	R
Mayweed, scentless	–	–	MR
Nightshade, black	–	–	MR
Oilseed rape, volunteer	–	–	S
Orache	–	–	MS
Pansy, field	–	–	R
Persicaria, pale	–	–	MR
Pimpernel, scarlet	–	–	MR
Poppy, common	–	–	MR
Redshank	–	–	MR

Weeds	Dose Rate		
	1.5 l/ha	2.0 l/ha	2.3 l/ha
Sowthistle, perennial	–	–	SP
Sowthistle, prickly	–	–	MS
Sowthistle, smooth	–	–	MR
Speedwell, common field	–	–	MS
Speedwell, ivy-leaved	–	–	SP
Thistle, creeping	–	–	MS
Turnip, wild	–	–	MR
Viper's bugloss	–	–	MR

* Common chickweed will be controlled up to 15 cm diameter by DUPLOSAN KV at 2.3 l/ha.

S = Susceptible: controlled from cotyledon to two true leaf stage at 1.5 l/ha and 2.0 l/ha; controlled from cotyledon to six true leaf stage (or 5 cm across or high) by 2.3 l/ha.

MS = Moderately susceptible: controlled from cotyledon up to two true leaves but only checked up to six true leaves or 5 cm across or high.

MR = Moderately resistant: checked at cotyledon to two true leaves only.

SP = Top growth suppressed when sprayed with 2.3 l/ha DUPLOSAN KV if appreciable foliage is present. Seedlings (cotyledon – two true leaves) will also be controlled.

R = Resistant: no useful effect.

CROP SPECIFIC INFORMATION

Winter wheat, oats and barley

Dose

2.3 l/ha.

Timing

DUPLOSAN KV may be applied from the leaf sheath erect stage up to before third node detectable stage in the spring.

If sharp or severe frosts occur within three to four weeks of application to barley under stress or of low vigour on light soils, scorch or stunting may occur and yields may be less than optimum.

Spring wheat, oats and barley

Dose

1.5 to 2.3 l/ha dependant on the target weed species. The 2.3 l/ha rate may only be used once the crop has reached leaf sheath erect stage.

Timing

One application of DUPLOSAN KV can be made from the first fully expanded leaf stage until before the first node is detectable (GS 31).

Amenity grassland

Dose

2.4 l/ha.

Timing

The sward should not be topped for at least a week before or after spraying. A maximum of two applications per year are permitted.

Docks

Allow to flower in July and then cut the flower stalks before seeding to weaken root reserves. Wait two weeks and then apply the recommended rate of DUPLOSAN KV. Docks will be severely checked but may recover, in which case the treatment should be repeated in the following season.

Common chickweed

Treat when actively growing and not shielded by grass, usually late summer or autumn.

If appreciable foliage is present there will be top growth suppression of weeds listed as top growth suppressed in the weed susceptibility table.

When using a conventional sprayer apply in 185–330 litres of water per hectare. When applying through a knapsack sprayer use a minimum of 480 litres of water per hectare.

Grass seed crops

Dose

1.5 to 2.5 l/ha.

Timing

One application can be made once grasses have at least three fully expanded leaves and have begun to tiller, but at least five weeks before the emergence of the seed head in grass seed crops. Treat Common chickweed when growing actively and not shielded by grass, usually late summer or autumn. Any clover present will be severely damaged.

Apply in 185–330 litres of water per hectare

Managed amenity turf

Dose

When using a conventional hydraulic sprayer apply 1.5 to 2.4 litres DUPLOSAN KV in 185–400 litres of water per hectare. Use the higher volume on larger weeds or where weeds or crop are dense. When applying through a knapsack sprayer use a minimum of 480 litres of water per hectare.

Timing

Two applications of DUPLOSAN KV can be made to managed amenity turf. For spring and summer sown turf, apply approximately two months after sowing. Turf sown or laid later in the year should not be treated until the following spring. For established turf, apply DUPLOSAN KV during the growing season which is normally April to September.

CAUTION: Do not apply to newly laid turf until it is well established and actively growing. Do not apply to turf under stress, particularly in periods of drought.

MIXING AND SPRAYING

Apply as a MEDIUM spray as defined by BCPC.

Water volume

The spray volume for DUPLOSAN KV alone or in mixtures is 185–330 litres of water per hectare. The lowest volume should only be used in open crops where weeds are small and where recommendations for any tank mix partner allow. As weeds become larger and/or crop cover increases, then the water volume should be increased.

This is particularly important with cleavers. Once cleavers are beyond the two whorl stage up to six whorls, a water volume of 330 litres per hectare is required to ensure good coverage and control.

Mixing

Half fill the spray tank with clean water and start the agitation. Pour in the required amount of DUPLOSAN KV. Add the remainder of the water and continue agitation until spraying is completed.

When tank mixes are to be used, each product should be added separately to the spray tank, taking due note of any instructions given as to the order of mixing.

COMPATIBILITY

Compatible mixtures

For an up to date list of compatibilities contact your agronomist or Nufarm.

DUPLOSAN KV

A soluble concentrate containing 600 g/l (48% w/w) mecoprop-P formulated as the potassium salt.

**DANGER**

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage

Wear protective gloves /eye protection/face protection.

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

IF SWALLOWED: call a POISON CENTRE or doctor/physician if you feel unwell.

Rinse mouth.

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

If skin irritation occurs: get medical advice/attention.

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.

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) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

IF YOU FEEL UNWELL, seek medical advice (show 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 farmyards and roads.

Storage and disposal

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.

RINSE CONTAINER THOROUGHLY BY USING AN INTEGRATED PRESSURE RINSING DEVICE OR MANUALLY RINSING THREE TIMES. Add washings to sprayer at time of filling and dispose of safely.