



Kerb[®] FLO

HERBICIDE

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GROUP 3 HERBICIDE

Product Registration Number: MAPP 13716

A suspension concentrate containing 400 g/litre (35.3% w/w) propyzamide.

A residual herbicide for the control of a wide range of weeds in WINTER OILSEED RAPE and several other AGRICULTURAL and HORTICULTURAL CROPS, and in FORESTRY and AMENITY SITUATIONS.

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 or contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted or trailed equipment.

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

WASH HANDS before meals and after work.

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:

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

EMPTY CONTAINER COMPLETELY and dispose of safely.

READ DIRECTIONS FOR USE ON ATTACHED LEAFLET

SHAKE WELL BEFORE USE
PROTECT FROM FROST

This label is compliant with the CPA Voluntary Initiative Guidance.



IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops / Situations:

Oilseed rape (winter), sugar beet (seed crop), field bean (winter), apple, blackberry, blackcurrant, gooseberry, loganberry, pear, plum, raspberry, redcurrant, rhubarb (outdoor use only), strawberry (outdoor use only), red clover (seed crop), white clover (seed crop), fodder rape (seed crop), kale (seed crop), turnip (seed crop), lucerne, lettuce (outdoor use only), forest, farm forestry, forest nursery, hedgerow, ornamental plant production (Christmas trees only), amenity vegetation

Maximum Individual Dose:

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

Latest Time of Application:

Other Specific Restrictions:

} area on the attached leaflet

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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UNITED KINGDOM

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.

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Crops / Situations	Maximum Individual Dose (litres product/hectare)	Maximum Number of Treatments	Latest Time of Application
Oilseed rape (winter), sugar beet (seed crop), field bean (winter)	2.1	One per crop	Before 1 st February in year of harvest
Apple, blackberry, blackcurrant, gooseberry, loganberry, pear, plum, raspberry, redcurrant	4.25	One per year	Before 1 st February in year of harvest
Rhubarb (outdoor use only)	4.25	One per year	Before 1 st January in year of harvest
Strawberry (outdoor use only)	3.5	One per year	Before 1 st January in year of harvest
Red clover (seed crop), white clover (seed crop), fodder rape (seed crop), kale (seed crop), turnip (seed crop), lucerne	1.75	One per crop	Before 1 st February in year of harvest
Lettuce (outdoor use only)	3.5	One per crop	Six weeks before harvest
Forest, farm forestry, forest nursery, hedgerow,	3.75	One per year	-
Ornamental plant production (see Other Specific Restrictions)	3.75	One per year	-
Amenity vegetation	4.25	One per year	-

Other Specific Restrictions:

Use in ornamental plant production is restricted to application to Christmas trees only.

This product may only be applied to edible crops except lettuce between 1st October and the specified latest time of application.

Do not harvest crops for human or animal consumption for at least 6 weeks after last application.

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(on the back of 2D code area
printed on the front page)
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WARNINGS

Take care to avoid local overdosing.

Do not make more than one application of KERB FLO within 9 months to the same area of land.

SOIL TYPES

KERB FLO can be used on all soil types with the following exceptions:

1. Do not use on soils containing more than 10% organic matter.
2. Do not use on strawberries or winter field beans grown in certain soil types. See Crop Recommendation tables.

SOIL TEXTURE (85 System)	
Textural Group	Textural class
Sands	Coarse sand, Sand, Fine sand, Loamy coarse sand
Very Light Soils	Loamy sand, Loamy fine sand, Coarse sandy loam
Light Soils	Sandy loam, Fine sandy loam, Sandy silt loam, Silt loam (85)
Medium Soils	Sandy clay loam, Clay loam, Silty clay loam
Heavy Soils	Sandy clay, Clay, Silty clay

SOIL AND WEATHER CONDITIONS

KERB FLO requires moisture for root uptake. Best residual action is obtained in moist soils of fine tilth.

KERB FLO can be applied under frosty conditions but should not be used where runoff from the soil surface is likely.

Best results are achieved when growth of weeds (especially blackgrass and volunteer cereals) is slow, but transpiration continues. In mild autumns/winters, emerged weeds may take longer to be controlled, the residual activity of KERB FLO will be shortened and overall control may be reduced.

The efficacy of KERB FLO may be reduced in organic soils and in the presence of excessive surface organic debris, burnt straw, ash, or ploughed up turf.

In winter field beans ensure a firm seedbed before spraying.

RESISTANCE

Strains of some annual grasses (e.g. black-grass, wild-oats, and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the AHDB, CropLife UK, your distributor, crop adviser or product manufacturer.

CROP INFORMATION

Note: Specific application information for each crop is contained in the Crop Recommendation Tables that follow:

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

WINTER OILSEED RAPE

KERB FLO can be applied after the use of an approved specific graminicide applied in accordance with the manufacturer's recommendations.

CLOVER, BRASSICAS AND SUGAR BEET GROWN FOR SEED

Treated clover, brassicas and sugar beet must not be used for human or animal consumption.

AMENITY VEGETATION – TREES, SHRUBS AND ORNAMENTAL PLANTS

KERB FLO is recommended for use on the following species which have been planted out not later than the previous spring: *Berberis darwinii*, *Buddleia davidii*, *Chamaecyparis spp* (False Cypress), *Cotoneaster spp*, *Crataegus spp* (Hawthorns), *Fagus sylvatica* (Beech), *Forsythia x intermedia*, *Ilex aquifolium* (Holly), *Larix decidua* (Larch), *Philadelphus spp* (Mock Orange), *Picea spp* (Spruces), *Pinus spp* (Pines), *Prunus gladulosa*, *Quercus spp* (Oak), *Rosa spp* (Roses including Rose rootstocks), *Spiraea x bumalda 'Froebelii'*, *Syringa vulgaris* (Lilac), *Taxus baccata* (Yew), *Thuja orientalis 'Rosedalis'*.

FORESTRY, FARM FORESTRY, FOREST NURSERY, HEDGEROW

KERB FLO is recommended for use on the following species: Alder, Beech, Southern Beech, Birch, Douglas Fir, Grand Fir, Noble Fir, Horse Chestnut, Larch, Lawson Cypress, Oak, Bishop Pine, Corsican Pine, Lodgepole Pine, Monterey Pine, Scots Pine, Poplar, Norway Spruce, Sycamore, Sitka Spruce, Western Hemlock, Wild Cherry.

ORNAMENTAL PLANT PRODUCTION

KERB FLO may be used in the production of Christmas trees only.

PROCESSED CROPS

No taints have been detected in tests with treated field crops. Consult your processor before use.

WATER VOLUMES

Winter oilseed rape, sugar beet (seed crops), winter field beans, lucerne, brassicas (for seed production), clover (seed crops): Apply KERB FLO in 200 to 1000 litres of water per hectare.

Apple, blackcurrant, blackberry, gooseberry, loganberry, pear, plum, raspberry, redcurrant, rhubarb (outdoor), strawberry (outdoor), lettuce (outdoor), forestry, farm forestry, forest nursery, hedgerow, ornamental plant production (Christmas trees only), amenity vegetation: Apply KERB FLO in 400 to 1000 litres of water per hectare.

Ensure good ground cover.

APPLICATION EQUIPMENT

Do not apply through broadcast air-assisted sprayers.

All crops: Application may be made through a ground crop sprayer.

Forestry, farm forestry, forest nursery, hedgerow, ornamental plant production (Christmas trees only), amenity vegetation: KERB FLO may also be applied via knapsack sprayer.

CROP RECOMMENDATION TABLES

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

Crop	Rate of Use	Weed Species	Stage of Weed Growth			Time of Year	Timing Stage of Crop	Soil Type (85 System))
			Germinating	Up to 2 leaf	Established			
Winter oilseed rape	1.75 litres/ha	Annual meadow-grass, barren brome, volunteer cereals, wild-oat	S	S	S	1 st October to 31 st January	As soon as possible after 3rd true leaf stage. Crop selectivity is by depth protection. Factors which cause shallow rooting may reduce crop selectivity	All soils with less than 10% organic matter.
		Common chickweed	S	S	S ¹			
		Blackgrass	S	S	MS ²			
		Black-bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MR			
		Field forget-me-not	MS	MS	R			
		Cleavers	MS	MR	R			
	1.25 litres/ha - Use this rate only a specific graminicide has controlled volunteer cereals and grass weeds and chickweed is not a problem	Annual meadow-grass, volunteer cereals, wild-oat	S	S	S			
		Black-bindweed, black nightshade, common chickweed, fat-hen, knotgrass, redshank, small nettle	S	S	R			
Speedwells		S	R	R				
Sugar beet grown for seed Winter field beans	2.1 litres/ha	Annual meadow-grass, barren brome, common chickweed, volunteer cereals, wild-oat	S	S	S	Sugar beet grown for seed: 1 st October to 31 st January Winter field beans: 1 st October to 31 st January	Sugar beet grown for seed: As soon as possible after 4th true leaf stage Winter field beans: Within 7 days after drilling but before crop emerges	Sugar beet grown for seed: All soils with less than 10% organic matter. Winter field beans: Use only on medium or heavy soils with less than 10% organic matter.
		Blackgrass	S	S	MS			
		Black-bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MR			
		Cleavers	MS	MR	R			

Crop	Rate of Use	Weed Species	Stage of Weed Growth			Time of Year	Timing Stage of Crop	Soil Type (Soil Texture (85 System))
			Germinating	Up to 2 leaf	Established			
Apple, blackcurrant, blackberry, gooseberry, loganberry, pear, plum, raspberry, redcurrant, rhubarb (outdoor use only), strawberry (outdoor use only)	2.1 litres/ha	Blackgrass	S	S	MS	Strawberry, rhubarb: 1 st October to 31 st December Other crops: 1 st October to 31 st January	Strawberry: Established crops planted for at least one year. Other crops: Established crops planted for at least one season	Strawberry: Use only on heavy soils with less than 10% organic matter Other crops: All soils with less than 10% organic matter
		Annual meadow-grass, barren brome, common chickweed, volunteer cereals, wild-oat	S	S	S			
		Black-bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MR			
	Strawberry: (not matted row crops) 3.5 litres/ha Other crops: 4.25 litres/ha	Annual meadow-grass, barren brome, blackgrass, common chickweed, volunteer cereals, wild-oat	S	S	S			
		Common couch ³ and other perennial grasses	S	S	S			
		Black-bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MS			
		Cleavers	S	S	R			
		Common fumitory, shepherd's-purse	MS	MS	R			
		Creeping buttercup, broad-leaved dock, sheep's sorrel	S	MS	MS			
		Field horsetail	MS	MS	MS			

Crop	Rate of Use	Weed Species	Stage of Weed Growth			Time of Year	Timing Stage of Crop	Soil Type (Soil Texture (85 System))
			Germinating	Up to 2 leaf	Established			
Brassicas grown for seed (fodder rape, kale, turnip), clover grown for seed (red and white), lucerne	1.75 litres/ha	Blackgrass	S	S	MS	1 st October to 31 st January	Brassicas grown for seed: As soon as possible after 3 rd true leaf stage. Clover grown for seed: Established crops grown for at least one season. Lucerne: Established crops grown for at least one season. Not less than 7 days after last cut.	All soils with less than 10% organic matter
		Annual meadow-grass, barren brome, common chickweed, volunteer cereals, wild-oat	S	S	S			
		Black-bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MR			
		Cleavers	MS	MR	R			
Lettuce (outdoor use only)	2.75-3.5 litres/ha Under dry soil conditions or warm weather use 3.5 litres/ha and irrigate or incorporate.	Annual meadow-grass, barren brome, blackgrass, common chickweed, volunteer cereals, wild-oat	S	S	S	Any time up to 6 weeks before harvest	Before or after drilling	All soils with less than 10% organic matter
		Black-bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MS			
		Cleavers, common fumitory, shepherd's-purse	MS	MS	R			

Crop	Rate of Use	Weed Species	Stage of Weed Growth			Time of Year	Timing Stage of Crop	Soil Type (Soil Texture (85 System))
			Germinating	Up to 2 leaf	Established			
Forestry, farm forestry, forest nursery, hedgerow (see list of species under 'Crop Information') Ornamental plant production (Christmas trees only)	3.75 litres/ha	Common bent, common couch, sweet vernal grass, tufted hair-grass, Yorkshire-fog and other perennial grasses	S	S	S	1 st October to 31 st January North of a line Aberystwyth to London (see also Soil Type) 1 st October to 31 st December South of a line Aberystwyth to London (see also Soil Type)	Forests: Any stages including pre-planting Nurseries: Treat no earlier than one month after transplanting	Mineral Soils (surface water gleys, brown earths and sands). Use between 1 st October and 31 st January. (See also Time of Year). Peat Soils (peaty gleys and peat soils with a depth of organic matter greater than 10 cm): Use between 1 st October and 31 st December (See also Time of Year).
		Creeping soft-grass	S	S	MS			
		Cock's foot	S	S	MR			
		Field horsetail	MS	MS	MS			
		Sedges	MS	MS	MS			
		Foxglove, willowherbs	R	R	R			

Crop	Rate of Use	Weed Species	Stage of Weed Growth			Time of Year	Timing Stage of Crop	Soil Type (Soil Texture (85 System))
			Germinating	Up to 2 leaf	Established			
Amenity vegetation – trees, shrubs and ornamental plants (see list of species under ‘Crop Information’)	2.1 litres/ha	Annual meadow-grass, barren brome, blackgrass, common chickweed, volunteer cereals, wild-oat	S	S	S	1 st October to 31 st January	Established crops planted for at least one season	All soils with less than 10% organic matter
		Black-bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MR			
	4.25 litres/ha	Annual meadow-grass, barren brome, blackgrass, common chickweed, volunteer cereals, wild-oat	S	S	S			
		Common couch and other perennial grasses	S	S	S			
		Black-bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MS			
		Cleavers	S	S	R			
		Common fumitory, shepherd’s-purse	MS	MS	R			
		Creeping buttercup, broad-leaved dock, sheep’s sorrel	S	MS	MS			
		Field horsetail	MS	MS	MS			
All listed crops	All rates	Common poppy, gallant soldier, groundsel, mayweed, scarlet pimpernel, clover, dandelion, field bindweed, ragwort, thistle	R	R	R	Any time	Any stage	All soils

NOTES FOR CROP RECOMMENDATION TABLES

1	Chickweed control may be reduced where it is well established (over 10 cm in diameter)
2	<p>CONTROL OF BLACKGRASS IN WINTER OILSEED RAPE</p> <p>Established (welltilled) blackgrass is moderately susceptible: Where populations of blackgrass and/or volunteer cereals exceed 50/m² KERB FLO should be applied in tank mix with an approved graminicide, or following an effective approved graminicide to ensure optimum weed control.</p> <p>Deeper germinating blackgrass within the soil profile could reduce product efficacy. When applied alone in late season, it is unlikely this higher dose will markedly improve control of well-tilled blackgrass.</p> <p>Where partial resistance (R[†] or RR[†]) to the partner graminicide is known to exist the dose of KERB FLO may be increased to 2.1 litres/ha. This may also be done if applications are made early in the season, under warm conditions and an increase in the duration of residual control is required (see 'Soil and weather conditions' above). Where high levels of resistance (RRR[†]) to the partner graminicide occurs there is no advantage of adding this graminicide to KERBFLO for blackgrass control, and KERB FLO even at 2.1 litres/ha will not give acceptable levels of established black-grass control in these circumstances.</p> <p>[†]R = 1 * RR = 2*/3* RRR = 4*/5*</p>
3	For heavy infestation of common couch a repeat application may be required the following winter. Avoid deep burying of rhizomes when preparing land prior to KERB FLO treatment.

FOLLOWING CROPS

The number of weeks which must elapse between the last application of KERB FLO and drilling or planting of the following crop is shown in the table below:

Following crops	Rate of KERB FLO applied to previous crop	Date KERB FLO applied to previous crop	
		1 st April – 31 st July	1 st August – 31 st March
Lettuce	1.75-4.25 litres/ha	0 weeks	0 weeks
Field beans, broad beans, peas, chicory, radish, clover, lucerne	1.75-4.25 litres/ha	5 weeks	10 weeks
Brassicas, leeks, onions, parsley, parsnips, celery, oilseed rape, strawberries	1.75-4.25 litres/ha	10 weeks	25 weeks or plant/sow after 15 th June whichever occurs sooner
Cereals and grasses ⁴	1.75-2.1 litres/ha	40 weeks	30 weeks
	2.75-4.25 litres/ha		40 weeks
Any other crop ⁴	2.75-4.25 litres/ha	20 weeks	40 weeks

⁴ Treated land must be mouldboard ploughed to a depth of 15 cm prior to drilling a following cereal, grass or any other crop not listed above.

Please consult Corteva Agriscience if a treated crop fails because of bad growing conditions.

MIXING

Add half the required volume of water to the spray tank and begin agitation. Shake the container vigorously and add the recommended quantity of KERB FLO through the filter basket. When container becomes empty, wash out with water and add the washings through the filter basket. Rinse through the filter basket and add the rest of the water. Agitate while topping up the tank and continue agitation until spraying is complete.

Spray immediately: do not allow the mixture to stand.

Thoroughly wash all spraying and measuring equipment with water immediately after use.

COMPATIBILITY

For the latest advice on tank mixes please contact Corteva Agriscience or your distributor.

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

KERB is a trademark 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 resellers 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/gb/en/files/sds/KERB-FLO-SDS.pdf>

Alternatively contact your supplier

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