

# EU 5564 FRONT CCL LABEL ITALY

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**CORTEVA**  
agriscience

**Kerb<sup>®</sup> Flo**  
H

**HERBICIDE**

TM & ® Remarks of Corteva Agriscience and its affiliated companies

**PCS No. 02830**  
Suspension concentrate containing 400 g/litre (35.5% 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**  
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.  
**WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS** when applying by hand-held equipment.  
**WASH HANDS AND EXPOSED SKIN** 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)  
Do not contaminate ponds, waterways or ditches with chemical or used container

**Storage and disposal:**  
**STORE IN ORIGINAL CONTAINER**, tightly closed, in a safe place.  
**EMPTY CONTAINER COMPLETELY** and dispose of safely. Do not re-use container for any other purpose.

**READ DIRECTION FOR USE ON ATTACHED LEAFLET**  
**SHAKE WELL BEFORE USE**  
**TRIPLE RINSE CONTAINER, PUNCTURE AND INVERT TO DRY AT TIME OF USE**  
**PROTECT FROM FROST**  
**FOR PROFESSIONAL USE ONLY**

**Application Holder:**  
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**Kerb<sup>®</sup> Flo**  
Propyzamide

**Warning**  
**Suspected of Causing Cancer.**  
**Very Toxic to aquatic life with long lasting effects.**  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention.  
Collect spillage.  
Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste. Contains 2-Naphthalenesulfonic acid, 6-hydroxy-, polymer with formaldehyde and methylphenol, sodium salt and 1,2-benzisothiazolin-3-one. May produce an allergic reaction.  
**To avoid risks to human health and the environment, comply with the instructions for use.** PCS No. 02830

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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 (litres product/hectare)	Maximum Number of Treatments	Latest Time of Application
Oilseed rape (winter)	2.1	One per crop	Before 1 <sup>st</sup> February in year of harvest
Field bean (winter)	2.1	One per crop	Before 1 <sup>st</sup> February in year of harvest
Pomegranate/top/cane fruit (and other specific restrictions)	4.25	One per year	Before 1 <sup>st</sup> February in year of harvest
Strawberry (outdoor use only)	3.5	One per year	Before 1 <sup>st</sup> January in year of harvest
Lucerne	1.7	One per crop	Before 1 <sup>st</sup> February in year of harvest
Lettuce (outdoor use only)	3.5	One per crop	Six weeks before harvest
Rhubarb (outdoor use only)	4.25	One per year	Before the 1 <sup>st</sup> of January in year of harvest
Forest, forest nursery and body ornamentals	4.25	One per year	-
Christmas trees	3.75	One per year	-

### Other Specific Restrictions:

Use in pomegranate and top/cane fruit is restricted to application to apple, blackberry, blackcurrant, gooseberry, loganberry, pear, plum, raspberry, redcurrant

This product may only be applied to edible crops except lettuce between 1<sup>st</sup> 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.

**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.**

### WARNING

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

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### 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 run-off from the soil surface is likely.

Best results are achieved when growth of weeds (especially black-grass 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 efficiency 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 firm seedbed before spraying.

### RESISTANCE

Strains of some annual grasses (e.g. black-grass, wild oats, Italian ryegrass) have developed resistance to herbicides which may lead to poor control. A strategy for prevention and managing such resistance should be adopted. Guidelines have been produced and are available from your local Teagasc/Independent advisor.

### 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 a specific graminicide applied in accordance with the manufacturer's recommendations.

### FORESTRY, FOREST NURSERY OUTDOOR WOODY ORNAMENTALS

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.

KERB FLO is recommended for use on the following species which have been planted out not later than the previous spring: *Perberis 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 glandulosa*, *Quercus* spp (Oak), *Rosa* spp (Rose, including Rose rootstocks), *Spiraea x bumalda* 'Froebelii', *Syringa vulgaris* (Lilac), *Taxus baccata* (Yew), *Thuja orientalis* 'Rosedalis'.

Kerb Flo may be used in the production of Christmas trees.

### FRUIT CROPS

See Crop Recommendation Tables.

### MISCELLANEOUS, INCLUDING LETTUCE

See Crop Recommendation Tables.

### PROCESSED CROPS

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

### WATER VOLUMES

**Winter oil seed rape, winter field beans, lucerne:** Apply KERB FLO in 200 to 1000 litres of water per hectare.

**Pome fruit, top and cane fruit [apple, blackcurrant, redcurrant, gooseberry, raspberry, loganberry, blackberry, pear, plum], forestry, forest nursery, outdoor woody ornamentals, Christmas trees, lettuce (outdoor), rhubarb (outdoor), strawberry (outdoor):** Apply KERB FLO in 400 to 1000 litres of water per hectare.

Ensure good ground cover.

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### APPLICATION EQUIPMENT

Do not apply through broadcast air-assisted sprayers.

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

Forestry, forest nursery, outdoor woody ornamental, Christmas trees: KERB FLO may also be applied with a knapsack sprayer or the Micron Herbi sprayer.

Knapsack applications: Add half the required amount of water to the knapsack. Shake the KERB FLO container vigorously and add the required amount to the knapsack, agitate the knapsack until the KERB FLO is fully dispersed. Top up the knapsack with the rest of the water and spray immediately, do not allow the mixture to stand.

Micro Herbi Application: Fit the Micron Herbi with the orange nozzle and the 19 inch OD breather tube. Any other size could result in uneven application. Add 375 ml KERB FLO to 625 ml of water in the spray bottle. Shake thoroughly to ensure all the product is in suspension. Then add 5 ml of an approved wetting agent and shake gently to ensure an even mixture.

The Herbi applies a 1.2 metre band. To apply the recommended rate of KERB FLO, the operator should cover 10 metres in approximately 13 seconds with sprayer held at approximately 45° to the horizontal. Under very cold conditions, spray flow is improved by holding the sprayer head at 50° to the horizontal.

When crosswinds occur allow for drift by moving the Herbi head to the windward side of the tree row.

2 litres of KERB FLO is sufficient to make 8 litres of suspension which will treat 6,660 metres of tree line.

### 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 (Soil Texture (85 System))
			Germinating	Up to 2 leaf	Established			
Winter oilseed rape	2.1 litres/ha	Annual meadow-grass, barren brome, Volunteer cereals, wild-oat	S	S	S	1 <sup>st</sup> October to 31 <sup>st</sup> 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 <sup>1</sup>			
		Black-grass	S	S	MS <sup>2</sup>			
		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			
Winter field beans	2.1 litres/ha	Annual meadow-grass, volunteer cereals, wild-oat	S	S	S	1 <sup>st</sup> October to 31 <sup>st</sup> January	Within 7 days after drilling but before crop emerges	Use only on medium or heavy soils with less than 10% organic matter
		Black-grass	S	S	MS			
		Black-bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MR			
		Cleavers	MS	MR	R			

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Crop	Rate of Use	Weed Species	Stage of Weed Growth			Time of Year	Timing Stage of Crop	Soil Type (Soil Texture (BS System))
			Germinating	Up to 2 leaf	Established			
Pome fruit, top/cane fruit (Apple, blackcurrant, blackberry, gooseberry, loganberry, pear, plum, raspberry, redcurrant, rhubarb (outdoor))	2.1 litres/ha	Black-grass	S	S	MS	Rhubarb: 1 <sup>st</sup> October to 31 <sup>st</sup> December Other crops: 1 <sup>st</sup> October to 31 <sup>st</sup> January	Established crops planted for at least 1 season	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	MS			
	4.25 litres/ha	Annual meadow-grass, barren brome, black-grass, common chickweed, volunteer cereals, wild-oat	S	S	S			
		Common couch and other perennial grasses		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			
Strawberry (outdoor)	2.1 litres/ha	Black-grass	S	S	MS	Strawberry: 1 <sup>st</sup> October to 31 <sup>st</sup> December	Strawberry: Established crops planted for at least 1 year.	Strawberry: Use only on heavy 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 <sup>§</sup>	S	S	MR				
	Strawberry: (not matted row crops) 3.5 litres/ha	Common couch and other perennial grasses	S	S	S			
		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				

<sup>§</sup>Controlled at the rate of 2.1litres/Ha except for established weeds which are MS at the higher rate of 3.5litres/Ha

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Crop type	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			
Lucerne	1.75 litres/ha	Black-grass		S	MS	1 <sup>st</sup> October to 31 <sup>st</sup> January	Established crops grown for at least 1 season. Not less than 7 days after last cut.	All soils with less than 10% organic matter
		Annual meadow-grass, barren brome, common chickweed, winter cereals, wild-oat	S	S	S			
		Black-bill weed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S		MR			
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	Cleavers	MS	MR	R	Any time up to 6 weeks before harvest	Before or after drilling	
		Annual meadow-grass, barren brome, black-grass, common chickweed, winter cereals, wild-oat		S	S			
		Black-bill weed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S	S	MS			
Christmas trees	3.75 litres/ha	Cleavers, common fumitory, shepherd's-purse	MS	MS	R	1 <sup>st</sup> October to 31 <sup>st</sup> December	Forests: Any stage including pre-planting Nurseries: Treat no earlier than 1 month after transplanting	Mineral Soils (Surface water gleys, brown earths and sands). Use between 1 <sup>st</sup> October and 31 <sup>st</sup> December. (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 <sup>st</sup> October and 31 <sup>st</sup> December (See also Time of Year).
		Common bent, common couch, sweet vernal grass, tufted hair-grass, Yorkshire-fog and other perennial grasses	S	S	S			
		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			

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Crop type	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, forest nursery and outdoor ornamentals (see list of species under CROP INFORMATION).	2.1 litres/ha	Annual meadow-grass, barren brome, grass, common chickweed, volunteer cereals, wild-oat		S	S	1 <sup>st</sup> October to 31 <sup>st</sup> December	Established crops planted for at least 1 season	All soils with less than 10% organic matter
		Black bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells*	S		R			
	Common couch and other perennial grasses	S	S	S				
	Black bindweed, black nightshade, fat-hen, knotgrass, redshank, small nettle, speedwells	S		MS				
	Cleavers	S	S	R				
	Common fumitory, sheeps-bit, pursue	MS	MS	R				
4.25 litres/ha	Cloping buttercup, broad-leaved dock, sheep's sorrel	S	MS	MS				
	Field nasturtium	MS	MS	MS				

\*Controlled at the rate of 2.1 litres/ha except for established weeds which are MS at the higher rate of 4.25 litres/ha

Crop type	Weed Species	Rate of Use	Stage of Weed Growth			Time of Year	Timing Stage of Crop	Soil Type (Soil Texture (85 System))
			Germinating	Up to 2 leaf	Established			
All listed annual and perennial crops	Common poppy, gallant soldier, groundsel, mayweed, scarlet pimpernel	All rates	R	R	R	Any time	Any stage	All soils
	Clover, dandelion, field bindweed, ragwort, thistle		R	R	R			

**NOTES FOR CROP RECOMMENDATION TABLES**

a) Chickweed control may be reduced where it is well established (over 10 cm in diameter)

b) **CONTROL OF BLACKGRASS IN WINTER OILSEED RAPE:**  
Established (well-tillered) black-grass is moderately susceptible: Where populations of black-grass and/or volunteer cereals exceed 50/m<sup>2</sup> KERB FLO should be applied in a tank mix with an approved graminicide in accordance with the manufacturers recommendations, or following an effective approved graminicide to ensure optimum weed control. Deeper germinating black-grass within the soil profile could reduce product efficacy. Where partial resistance (R<sup>o</sup> or RR<sup>o</sup>) 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<sup>o</sup>) to the partner graminicide occurs there is no advantage of adding this graminicide to KERB FLO for black-grass control, and KERB FLO even at 2.1 litres/ha will not give acceptable levels of established black-grass control in these circumstances.  
R = 1\*    RR = 2\*/3\*    RRR = 4\*/5\*

c) 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.

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## 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 <sup>st</sup> April – 31 <sup>st</sup> July	1 <sup>st</sup> August – 31 <sup>st</sup> March
Lettuce	2.75-4.25 litres/ha	0 weeks	0 weeks
Field beans, broad beans, peas, chickory, radish, clover, lupine	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	0 weeks	25 weeks or plant/sow after 15 <sup>th</sup> June whichever occurs sooner
Cereals and grasses	1.75-2.1 litres/ha	40 weeks	30 weeks
	2.75-4.25 litres/ha	40 weeks	40 weeks
Any other crop	2.75-4.25 litres/ha	40 weeks	40 weeks

Treated land must be shouldboard 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.

Continue agitation while topping up the tank and whilst spraying.

Spray immediately: do not allow the mixture to stand.

Thoroughly wash all spraying equipment with water immediately after use.

## COMPATIBILITY

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

## TRADE MARK ACKNOWLEDGEMENTS

KERB Flo is a trademark of Corteva Agriscience.

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.ie/content/dam/dpagco/corteva/eu/ie/en/files/sds/KERB-FLO-IRL-SDS.pdf>

Alternatively contact your supplier