



Astrokerb®

HERBICIDE

® Trademarks of Corteva Agriscience and its affiliated companies.

GROUP 3 4 HERBICIDES

Product Registration Number: MAPP 16184 / PCS No 05322

A suspension concentrate containing 5.3 g/litre aminopyralid (present as 6.3 g/litre aminopyralid potassium salt) and 500 g/litre propyzamide.

A foliar and residual herbicide for the control of a wide range of weeds in WINTER OILSEED RAPE.

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 GLOVES when handling the concentrate or handling contaminated surfaces.

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

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.)

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

Storage and disposal:

STORE IN ORIGINAL CONTAINER, tightly closed, in a safe place.
EMPTY CONTAINER COMPLETELY and dispose of safely.

Triple Rinse Containers, Puncture and Invert to Dry at time of Use



AstroKerb®

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 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.

MAPP 16184/ PCS No. 05322

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops / Situations:	Oilseed rape (winter)
Maximum Individual Dose:	}
Maximum Number of Treatments:	} Full details are given in the Important Information
Latest Time of Application:	} Area on the attached leaflet
Other Specific Restrictions:	}

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.

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)	1.7	One per crop	Before 1 st February in year of harvest

Other Specific Restrictions:

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

Livestock must be kept out of treated areas for at least 1 week following treatment and until poisonous weeds such as ragwort have died and become unpalatable.

Users must have received adequate instruction, training and guidance in the safe and efficient use of the product and must take all reasonable precautions to protect the health of human beings and non-target organisms and safeguard the environment.

The product must not be used on land where vegetation will be cut for animal feed, fodder or bedding nor for composting or mulching within one calendar year of treatment.

Following crops (winter and spring wheat) should not be planted within 30 weeks of application of ASTROKERB.

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.

WARNINGS

ASTROKERB contains aminopyralid, traces of this material in oilseed rape straw can damage sensitive crops. Aminopyralid residues in plant tissues which have not completely decayed may affect succeeding susceptible crops e.g. peas, beans and other legumes, sugar beet, fodder beet, carrots and umbelliferae, potatoes and tomatoes, lettuce and other compositae. Therefore, following good agricultural practice ensure that all remains of the oilseed rape crop have completely decayed before planting susceptible crops.

DO NOT remove oilseed rape straw from the field unless it is to be used for burning for heat or electricity production.

DO NOT feed animals with treated oilseed rape straw.

DO NOT use oilseed rape straw for animal bedding.

DO NOT use oilseed rape straw for composting or mulching.

Take care to avoid local overdosing.

Do not make more than one application of ASTROKERB to any one crop.

If animals are inadvertently fed or bedded on oilseed rape straw treated with ASTROKERB, do not use animal waste for composting.

Do not use on crops grown for seed.

Neighbouring Crops / Plants

Avoid damage by drift onto susceptible crops, non-target plants or waterways. Do not apply directly to, or allow spray drift to come into contact with agricultural or horticultural crops, amenity plantings, gardens, ponds, lakes or watercourses.

SOIL TYPES

ASTROKERB can be used on all soil types except those containing more than 10% organic matter.

SOIL AND WEATHER CONDITIONS

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

ASTROKERB 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 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 ASTROKERB will be shortened and overall control may be reduced.

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

RESISTANCE

Strains of some annual grasses (e.g. blackgrass, wild oats, Italian ryegrass) 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.

WINTER OILSEED RAPE

ASTROKERB can be applied after the use of an approved specific graminicide applied in accordance with the manufacturers' recommendations.

WATER VOLUMES

Apply ASTROKERB in 200 to 300 litres of water per hectare. Ensure good ground cover.

APPLICATION EQUIPMENT

Application should be made through a ground crop sprayer.

Do not apply through broadcast air-assisted sprayers.

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	1.5 L/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 ¹ , mayweed, common poppy	S	S	S ¹			
		Blackgrass ²	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			
	1.0 L/ha - Use this rate only where a specific graminicide has controlled volunteer cereals and grassweeds and chickweed is not a problem	Cleavers	MS	MR	R			
		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			

* Established = 3-4 true leaves to flower bud development stage.

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</p> <p>Established (well-tillered) blackgrass is moderately susceptible: Where populations of blackgrass and/or volunteer cereals exceed 50/m² ASTROKERB 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.</p> <p>Where partial resistance (R* or RR*) to the partner graminicide is known to exist the dose of ASTROKERB may be increased to 1.7 L/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).</p> <p>Where high levels of resistance (RRR⁴) to the partner graminicide occurs there is no advantage of adding this graminicide to ASTROKERB for blackgrass control, and ASTROKERB even at 1.7 L/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>

FOLLOWING CROPS

Winter cereals and spring cereals only.

Treated land must be moldboard ploughed to a depth of 15 cm prior to drilling a following cereal crop.

CROP FAILURE

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. Add the recommended quantity of ASTROKERB. Agitate while topping up the tank and continue agitation until spraying is complete.

TANK CLEANING

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

To avoid subsequent injury to crops, all spraying equipment must be thoroughly cleaned both inside and out after an application of ASTROKERB.

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. Agitate and then briefly flush the boom and hoses. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the boom and hoses and drain tank completely.
4. Nozzles and filters should be cleaned separately and removed if necessary.
5. For disposal of washings, follow local regulations. 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

ASTROKERB 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

COMPANY ADVISORY INFORMATION (UK only)

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.

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.

UK

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/ASTROKERB-SDS.pdf>

Alternatively contact your supplier

REPUBLIC OF IRELAND

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/ASTROKERB-IRL-SDS.pdf>

Alternatively contact your supplier

**THIS PAGE HAS BEEN LEFT
BLANK INTENTIONALLY**

**THIS PAGE HAS BEEN LEFT
BLANK INTENTIONALLY**

Astrokerb®

HERBICIDE

® Trademarks of Corteva Agriscience and its affiliated companies.

GROUP 3 4 HERBICIDES

Product Registration Number: MAPP 16184 / PCS No 05322

A suspension concentrate containing 5.3 g/litre aminopyralid (present as 6.3 g/litre aminopyralid potassium salt) and 500 g/litre propyzamide.

A foliar and residual herbicide for the control of a wide range of weeds in WINTER OILSEED RAPE.

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 GLOVES when handling the concentrate or handling contaminated surfaces.

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

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.)

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

Storage and disposal:

STORE IN ORIGINAL CONTAINER, tightly closed, in a safe place.
EMPTY CONTAINER COMPLETELY and dispose of safely.

Triple Rinse Containers, Puncture and Invert to Dry at time of Use



AstroKerb®

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 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.

MAPP 16184/ PCS No. 05322

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops / Situations:	Oilseed rape (winter)
Maximum Individual Dose:	}
Maximum Number of Treatments:	} Full details are given in the Important Information
Latest Time of Application:	} Area on the attached leaflet
Other Specific Restrictions:	}

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.