

Memphis is a post-emergence herbicide for the control of wild oats, ryegrass, bromes and broad-leaved weeds in winter wheat, winter rye, winter spelt and winter triticale.

Key facts

Product Registration Number:	MAPP No. 20659
Active Ingredient:	69.5 g/kg of halauxifen-methyl (present as 66.7 g/kg halauxifen-methyl acid), 250 g/kg of pyroxsulam and 354 g a.s. of cloquintocet acid (safener). (HRAC Group 4 + 2 Herbicides)
Pack Size:	375g – 5 ha pack
Formulation:	Water Dispersible Granule (WG)
Crops:	Winter cereals (wheat, rye, spelt and triticale)
Maximum Individual Dose:	75 g/ha
Maximum Number of Applications:	1 per crop
Application Timing:	GS 12–32 inclusive (from 15 th September to 15 th May)
Water Volumes:	150–400 Litres water/ha
Buffer Zone:	6m non-reduceable buffer zone with 3* drift reduction technology
Spray Quality:	Medium as defined by BCPC
Nozzles:	Horizontal boom sprayers must be fitted with three-star drift reduction technology

Key Benefits

- Memphis provides a robust solution for control of the key grassweed and broad-leaved weeds in either the Autumn or the Spring.
- Memphis delivers excellent control of brome species, ryegrass and wild oats as well as a wide range of broad-leaved weeds.
- Rainfast in 1 hour.
- There are no specific cultivation requirements for following crops and excellent following crop profile.
- Can be used in joint application with a wide range of ALS-inhibitor broad-leaved weed herbicide products.

Best Use Advice - Autumn

- Apply Memphis at 75 g/ha with an adjuvant (95% w/w oil – rapeseed fatty acid):
 - Actirob B, Phase II, Intracrop Rigger, Super Rapeeze, Spraymate & Toil.
- Meadow and rye brome control is best achieved in the autumn – Apply Memphis in a programme following an effective pre-emergence herbicide, in tank mix with a residual partner when brome is between GS 11-24 (optimal GS 11-13).
- Ryegrass control is best achieved GS 11-29.
- Wild oat control is best achieved GS 11-29.
 - Good activity on tame oats optimum GS 11-24 – Best control achieved pre-tillering in the Autumn.
 - Varietal differences in sensitivity/optimal timing. Consult Corteva Agriscience for latest varietal information.
- To avoid subsequent injury to crops other than winter wheat, rye, spelt and triticale, spray equipment used for Memphis applications should be thoroughly cleaned with All Clear Extra/proprietary tank cleaner.

Following crops

- After an application of Memphis at 75g pr/ha up to BBCH 32, the following crops can be sown:
Autumn: Winter cereals, winter OSR, ryegrass, beans, clover, peas, lucerne, onions, carrot, vetch, phacelia.
Spring: Spring cereals, spring OSR, sunflower, sugar beet, potatoes, grass, clover, beans, peas, maize, carrot, soybean, spinach, sorghum, onions.

Crop Failure

- In the event of crop failure following an application of Memphis, the following crops: spring wheat and spring barley, maize and sunflower can be drilled after a minimum interval of 4 weeks.

Tank Mixing

- Memphis is physically compatible with a wide range of products:
- Refer to <https://www.corteva.co.uk/tools-and-advice/tank-mix.html> for further information on compatibilities and ALS joint applications.

Joint applications

Joint applications should only be made within the label recommendation of every product in the application.

Only one other product with an ALS inhibitor mode of action may be applied to a cereal crop treated with Memphis.

Memphis may be applied in joint application to the same cereal crop with one of the following ALS products:

Accurate	Dakota	Lorate	Savvy Premium
Alias	DP 911 SX	Mattera ¹	Seduce
Ally Max	Equator SX	Mozaic SX	Simba SX
Ally SX	Ergon	Nautius	Slalom
Answer SX	Finish SX	Nevada	Solstice
Avro SX	Galaxy	Omnera LQM	Spitfire
Barton WG	Gartrel	Paramount	Starane XL
Biplay SX	GF-184	Parana	Suprime
Boudha	Gropper SX	Pennant	Taxi
Boxer	Harmony M SX	Pinnacle	Thor
Calibre SX	Harmony SX	Presire SX	Traton SX
Chimera SX	Hiatus	Provalia LQM	Triad
Concert SX	Hunter	Quantum SX	Upton
Cleancrop Mondial	Inka SX	Ratio SX	Zypar ¹
Cameo SX	Jubilee SX	Refine Max SX	
Counter SX	Lector	Renitar ¹	

1. The total amount of haloxifen-methyl applied to a winter cereal crop must not exceed 14.04 g/ha (13.5 g a.e./ha of haloxifen-methyl). For autumn sown crops the maximum total must not exceed 7.8 g/ha (7.5 g a.e./ha haloxifen-methyl) between first leaf unfolded (GS 11) and 31st December. For any applications involving haloxifen-methyl made between January 1st and flag leaf swollen (GS 45) the maximum total dose of haloxifen-methyl applied must not exceed 6.24 g/ha (6 g a.e./ha). A minimum interval of 3 months between applications of products which contain haloxifen-methyl must be respected.

Weed Spectrum

Always use Memphis in combination with an approved adjuvant.

Weed	75 g/ha + adjuvant	Weed	75 g/ha + adjuvant
Black bindweed	MS 4tl	Knotgrass	2 tl
Brome (meadow & rye)	S up to 4 tillers	Loose Silky Bent	S < GS 30
Bur-chervil	8 tl	Mayweeds	8 tl
Charlock	6 tl	Nipplewort	10cm
Chickweed	100 mm	Nettle (small)	4tl
Cleavers	150 mm	Pale persicaria	2 tl
Clover	6 tl	Parsley piert	-
Common field speedwell	6 tl	Poppy (ALS susceptible)	8 tl (10cm)
Corn marigold	MS 2 tl	Redshank	2 tl
Corn spurrey	2 tl	Red Dead nettle	Full flowering (18cm)
Creeping thistle (from seed)	MS 4 tl	Ryegrass (Perennial)	S < GS 31
Docks (from seed)	-	Scarlet pimpernel	MS 4 tl
Fat hen	4-6 tl	Shepherd's needle	4 tl
Field pansy	4 tl	Shepherd's purse	6 tl
Field penny-cress	2 tl	Sow thistle (annual)	MS 4 tl
Flixweed	6 tl	Volunteer beans	BFBV
Fools parsley	4 tl	Volunteer borage	4 tl
Fumitory	Before flowering (22cm)	Volunteer linseed	6 tl
Forget-me-not	6 tl	Volunteer oilseed rape	6 tl
Garlic mustard	4 tl	Volunteer peas	BFBV
Geranium spp.	8 tl	Volunteer sugar beet	4 tl
Groundsel	6 tl	Wild oats	S <GS 31
Hedge mustard	4 tl	Wild mustard	6 tl
Hemp-nettle	4 tl	Wild radish	6 tl
Ivy – leaved speedwell	6 tl	Willow Herb	6 TL

Key: **bold** - label weeds; BFBV - Before flower buds visible; BFSE - Before stem extension; tl - true leaves; MS - Moderately susceptible

Any recommendation for off-label or anecdotal control is only indicative and should not be considered a recommendation for use on the part of Corteva Agriscience. The user assumes full responsibility for use on these weeds.