

SAFETY INFORMATION

UFI : W1T7-D064-C00N-EVH4

Contains Cloquintocet-mexyl; Reaction mass of N,N-dimethyldecan-1-amide and N.Ndimethyloctanamide: Ethylhexanol – May produce an allergic reaction.

- May cause respiratory irritation May cause an allergic skin reaction Causes serious eye irritation Very toxic to aquatic life with long lasting effects
- Wear protective gloves/clothing/eve/face protection. IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, If eve irritation persists: Get medical advice/ attention.
- Take off contaminated clothing and wash it before reuse.
- Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous

TO AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.

PCS No: 05740

Barley, Durum Wheat, Rye, Spelt, Triticale and Wheat. Winter oats, (Winter oats under sown with grass). Barley, Durum Wheat, Rye, Spelt, Triticale and Wheat undersown with grass.

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



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

Crops	Maximum Individual Dose	Maximum Number of applications (per crop)	Maximum Total dose	Latest Time of Application
Barley, Durum Wheat, Rye, Spelt, Triticale and Wheat	0.5 L/ha	-	0.5 L/ha	GS45 (late boot stage) and before June 30 th
Barley, Durum Wheat, Rye, Spelt, Triticale and Wheat undersown with grass	0.5 L/ha	1	0.5 L/ha	GS45 (late boot stage) and before June 30 th
Winter oats and winter oats under sown with grass	0.25 L/ha	1	0.25 L/ha	GS32 (second node visible) and before 31 st May

Other Specific Restrictions:

1. The total amount of halauxifen-methyl applied to a winter cereal crop must not exceed 14.04 n/ha (13.5 n a e/ha of halauxifen-methyl). For autumn sown crons the maximum total must not exceed 7.8 g/ha (7.5 g a.e/ha of halauxifen-methyl) between first leaf unfolded (GS11) and 31st December. For any applications involving halauxifen-methyl made between January 1st and flag leaf swollen (GS45) the maximum total dose of halauxifen-methyl applied must not exceed 6.24 g/ha (6 g a.e/ha).

2. A minimum interval of 3 months between applications of products which contain halauxifen-methyl must be respected

3. WHORL must not be applied before 1st February in winter cereals (including undersown with grass) or before 1st March in spring cereals (including undersown with grass).

. DO NOT use WHORL on spring oats.

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RESTRICTIONS

Do not treat crops under stress. Stress can be caused by many factors including frost, drought. water logging, trace element deficiency, disease and pest attack etc. WHORL can sometimes induce slight and transient (2-3 weeks) crop vellowing or growth inhibition. This has no impact on vield and grain quality.

Do not apply to crops containing or under sown with clover or any legume containing mixtures.

Do not roll or harrow 7 days before or after application

Avoid spray drift onto non-target crops (see Adiacent Crops section below).

WEEDS CONTROLLED

WHORL is a post-emergence herbicide for the control of the following broad-leaved weeds in winter and spring cereals. WHORL is mainly absorbed through the foliage of the target weeds.

Application rates and timing for spring applications to winter cereals:

Weed species	Rate L/ha	Maximum growth stage controlled	Susceptibility
Common Shepherd's purse	0.5	Full flowering Up to 15 cm diameter	S
Common fumitory	0.25	Up to 20 cm height	S
Cleavers	0.375	Beginning of flowering Up to 40 cm height	S
Cleavers	0.5	Beginning of flowering Up to 90 cm	S
Common hemp nettle	0.5	Up to 10 cm height	S
Small flowered cranesbill	0.25	Up to 10 cm height	S
Red dead-nettle	0.25	Full flowering Up to 20 cm height	S
Common poppy	0.5	Up to 10 cm diameter	S
Common chickweed	0.5	Full flowering 25 cm height	S

Application rates and timing for spring applications to spring cereals:

	Weed species	Rate L/ha	Maximum growth stage controlled	Susceptibility
	Common fumitory	0.25	6 true leaf stage Up to 10 cm height	S
	Cleavers	0.25	Up to 40 cm height, before flowering	S
	Cleavers	0.375	First flowers visible Up to 40 cm	S
	Fat-hen	0.375	Up to 25 cm height	S

Weed species	Rate L/ha	N C
Red dead-nettle	0.25	F
Black bindweed	0.5	U
Common chickweed	0.5	U
	Red dead-nettle	Red dead-nettle 0.25 Black bindweed 0.5

For best results apply WHORL to young wee stages. Vigorous crop competition enhance

WEED RESISTANCE

Product	Туре	Active
WHORL	Herbicide	fluroxypy
WHURL	Herbicide	halauxifer

WHORL contains the active ingredients hala. athyl (an arylnicolinate herhicide) a fluroxvpvr-meptvl. both of which are members of the pyridine-carboxylic acid family of synthe auxins, part of Group 4 (previously Group 0) according to HRAC classification. To minimize the risk of resistance developing, the following precautions are advised as part of a resistance management strategy

1. Use rate to maximise control of high risk/difficult to control 2. Follow label statements concerning rates and application timir 3. Use WHORL only once per crop season. 4. Consider the use of cultural control methods where possible

o not over rely on a single herbicide mode of action.

ROP SPECIFIC INFORMATION /HORL can be used on a variety of winter cereals (wheat, durum wheat, spelt, barlev. rve. triticale and oats) and spring cereals (wheat, durum wheat, barley, spelt, triticale and rve) under sown with grass for the control of broad leaf weed species.

WHORL can be used on a variety of winter cereals (wheat, durum wheat, spelt, barley, rye, triticale and oats) and spring cereals (wheat, durum wheat, barley and rye) for the control of

broad leaf weed species. WHORL can be used cereals grown for seed and malting barley.

The ideal timing for application is when the weeds are small and actively growing. However, some highly susceptible species can be controlled at advanced growth stages for late treatments (e.g. Cleavers and Red Dead-Nettle)

Winter sown cereals (wheat, barley, rye, triticale, durum wheat, spelt) WHORL can be applied from February 1st when the crop is at least GS 13 (three leaves unfolded)

	Maximum growth stage controlled	Susceptibility			
	First flower petals visible Up to 10 cm height	S			
	Up to 15 cm height	S			
	Up to 15 cm diameter	S			
eeds which will respond quicker when treated at early es control of the difficult to control weeds.					
,	HRAC code				
1	vpvr-meptyl 4 (Previously	Group Ol			

up to GS 45 (flag leaf sheath swollen). Latest calendar date for application is 30th June.

Winter oats WHORL can be applied from February 1st when the crop is at least GS 13 (three leaves unfolded) In to GS 32 (second node visible), Latest calendar date for application is 31st May

Spring sown cereals (wheat, barley, rye, triticale, durum wheat, spelt)

WHORL can be applied from March 1st when the crop is at least GS 13 (three leaves unfolded) up to GS 45 (flag leaf sheath swollen). The latest calendar date for application is 30th June.

Indersown cereal crons

WHORL may be applied to wheat, barley, winter oats, rye, durum wheat, spelt and triticale crops undersown with grass when the cereal crops are at the growth stages stated above. Application must only be made after the undersown grass has 5 leaves unfolded (GS 15).

BATES OF USE

Apply 0.25 to 0.5 L/ha of WHORL in 100 to 400 litres of water per hectare, using spray equipment to give good even coverage of the crop.

The lowest water volume should only be used in open crops on small weeds. On later applications good spray distribution. where the crop is dense, the spray volume should be increased to 200-400 litres water per hectare. The minimum recommended pressure is 2 to 3 bars.

Apply a maximum rate of 0.25 L/ha of WHORL on winter oats and winter oats under sown with grass.

For undersown cereal crops, it is recommended to use a minimum spray volume of 150 litres MIXING AND SPRAYING of water per hectare.

WHORL can be used to any soil type.

WEATHER CONDITIONS

WHORL can be used in cold or warm (from 2 to 25 °C), humid or dry conditions. In severe drought conditions, there can be a slight reduction in efficacy.

RAINFASTNESS

WHORL is rainfast one hour after application.

FOLLOWING CROPS

After an application of WHORL at 0.5 L/ha up to GS 45, the following crops may be sown in the Sprav quality summer/autumn of the same year after the cereal harvest: white mustard, pea, broad bean, field Apply WHORL as a MEDIUM spray as defined by the BCPC system. beans, winter oilseed rape, phacelia, ryegrass, winter sown cereals (wheat, barley, rye, triticale, bats, spelt), vegetable brassica as transplants. Ploughing is recommended prior to drilling maize, alfalfa, sovbean and clover.

All crops can be sown in the spring following an application of WHORL at 0.5 L/ha up to GS 45 In the previous calendar year.

CROP FAILURE

In the event of a cereal crop failure after the crop has been treated with WHORL, consider all herbicides used on the treated field before deciding which new crop to sow.

In case of a crop failure after a spring application of WHORL • 1 month after application with no cultivation; Spring wheat, Spring barley, Spring oats, and

Byegrass may be sown

• 2 months after application and after ploughing: Maize, Spring oilseed rape, Pea, Broad bean and Field bean may be sown.

3 months after application: Sorohum may be sown.

ADJACENT CROPS

Avoid sprav drift onto non-target crops.

Particular care should be taken to avoid sprav drift onto susceptible crops e.g. vines, orchards, sunflower, legumes, vegetable crops, ornamentals, flax, sugar beet, potatoes etc.

WHORL is of low volatility and is therefore not subject to vapour drift.

Apply only with a boom spraver and use suitable nozzles for herbicides. Use a sprav pressure as low as possible and a low height with respect to the treated vegetation, while ensuring the

The use of low drift nozzles is recommended.

Do not spray in windy weather. Wind speed should be less than or equal to 3 on the Beaufort scale (i.e a maximum of 19 km/hour). Do not spray if the temperature exceeds 25 ° C in the shade.

Half fill the spray tank with clean water and start the agitation. SHAKE THE CONTAINER WELL before use and add the required amount of product. Rinse any empty containers thoroughly and add rinsings to the spray tank. Add the remainder of the water and continue agitation until spraying is completed. Spray solution MUST be used on the day of mixing and must NOT be left overnight.

Annlication method

Apply WHORL only with a boom sprayer. Use a spray pressure as low as possible and a boom efficacy and WHORL can be applied using standard and low drift nozzles.

Boom height should be adjusted to ensure even coverage of the crop, particularly at later growth stages. The correct height is one at which the spray from alternate nozzles meets just above the crop.

Tank cleanin

To avoid subsequent injury to crops other than cereals (wheat, barley, rye, triticale), all spraying equipment must be thoroughly cleaned both inside and out using a proprietary tank cleaner such as All Clear Extra spray cleaner at 0.5 % v/v as follows:

- 1. Immediately after spraying thoroughly and completely rinse all internal surfaces. 2. Rinse inside of tank with clean water and flush through booms and in-line strainers using at
- least one tenth of the spray tank volume. Drain tank completely.
- 3. Fill tank with clean water (minimum 10% of tank capacity) and add tank cleaner at the recommended rate and agitate for 15 minutes. Flush the boom and hoses and drain tank completely

- 4. Nozzles and filters should be removed and cleaned separately with a tank cleaner at the recommended rate
- 5 Binse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely.
- 6. For disposal of washings, follow Code of Practice for Using Plant Protection Products, Do not spray onto sensitive crop or land intended for cropping with sensitive crop.
- 1. Note: If it is not possible to drain the tank completely, step 3 must be repeated before aoina onto step 4.

COMPATIBILITY

Where tank mixes are used, and unless directed otherwise, the preferred order of addition of products to the spray tank is as follows: water dispersible granules, wettable powders! suspension concentrates (flowables) emulsifiable concentrates solution concentrates Fach product should be added to the half-full sprayer and be fully dispersed before the addition of the next product.

For details on compatibilities contact your distributor or Corteva technical hotline on +44 (0) 800 689 8899 or ukhotline@corteva.com

TRADEMARK ACKNOWLEDGEMENTS

WHORL is a trademark of Corteva Agriscience.

All other brand names are trademarks of other manufacturers for which proprietary rights may

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. height adapted to the nozzle type and the sprayed vegetation, while ensuring the good spray damage or injury whatsoever arising from their storage, handling, application or use. These distribution. Use nozzles suitable for herbicide applications. Nozzle type does not influence conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods

o 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/ WHORL-IRL-SDS.pdf

Alternatively contact your supplier