



KINVARA®

MAPP 18436

Contains '28 g/l clopyralid, 50 g/l fluroxypyr, 233 g/l MCPA as a Micro Emulsion (ME)

GROUP 4 HERBICIDE

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

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.

IMPORTANT INFORMATION			
FOR USE ONLY AS AN AGRICULTURAL HERBICIDE			
Crops/situations	Maximum individual dose	Maximum total dose	Latest Time of application
Wheat, barley, oats, rye and triticale	3 L product/ha per crop	3 L product/ha per crop	Flag leaf fully unrolled, ligule just visible (GS 39)

Special Hazards

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H410 Very toxic to aquatic life with long lasting effects

Safety Recommendations

P261 Avoid breathing spray

P280 Wear protective gloves/protective clothing/eye protection

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

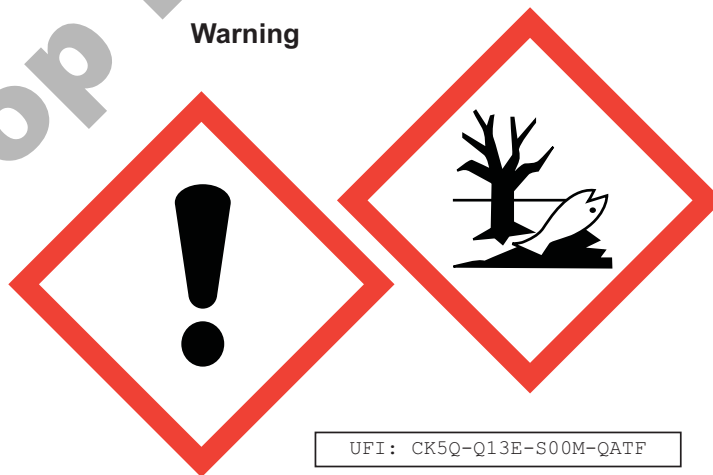
P337+P313 If eye irritation persists: Get medical advice/attention

P391 Collect spillage.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

Warning



UFI: CK5Q-Q13E-S00M-QATF

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PROTECT FROM FROST, SHAKE THOROUGHLY BEFORE USE

SAFETY PRECAUTIONS

OPERATOR PROTECTION:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces or applying by hand-held equipment.

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

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

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 from farmyards and roads).

* except when used as directed.

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water.

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

STORAGE DISPOSAL

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

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank, and dispose of safely.

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

Safety data sheet available for professional user on request.

This product is approved under The Plant Protection Products Regulations (as amended).

OTHER SPECIFIC RESTRICTIONS

Following treatment with Kinvara a period of at least 125 days must be observed prior to planting of succeeding crops.

To protect groundwater applications must not be made between 31st August and 1st March.

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 achieve the safe and successful use of this product.

GENERAL INFORMATION

Broad-leaved weeds not present at application will not be controlled.

Do not apply if night temperatures are low, if ground frost is imminent, or in periods of prolonged cold or dry weather. Ensure weeds are actively growing as after periods of prolonged drought, weeds can take a long time to start actively growing again after soil moisture returns.

Do not use any plant material treated with Kinvara for composting or mulching.

Restrictions

KINVARA must not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.

No negative impacts of KINVARA on non-target plants in off-crop areas are expected if product is applied within a 10m buffer zone or if used with 90% drift reducing nozzles.

Where ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable and contain higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely recovered or died and there is no visible sign of the dead weed.

Some phytotoxicity symptoms might appear (chlorosis, growth inhibition, vigour loss) but these symptoms should usually be transient and have no impact on yield.

Do not apply Kinvara on crops grown for seed.

Weed control

KINVARA is an agricultural herbicide for the control of annual and perennial weeds in cereals. It consists of a mixture of three active substances, each mimicking the activity of auxin - indole-3-acetic acid (IAA), but with slightly different spectra of activity, thus the mixture gives a broader range of weed control than any of the actives used individually.

KINVARA is most effective when applied to small weeds growing actively under warm, moist conditions.

Mixing

Pour the required quantity of KINVARA into the spray tank already half-filled with water and under agitation. Top up the spray tank with water to the required level. Maintain agitation during spraying and until the tank is sprayed out.

Application (BCPC definitions)

Apply to dry foliage. Do not spray if rain is imminent. Take extreme care to avoid spray drift onto non-target crops or areas, particularly sensitive crops such as Brassica vegetables and lettuce.

Avoid overlapping spray swaths.

Susceptible Weeds

The susceptibility rating of weeds in the following table refer to good spray cover and good growing conditions.

Activity spectrum on cereals:

Weed species	Maximum growth stage controlled	Susceptibility ¹
Cleavers	5 visibly extended internodes	S
Scented mayweed	6 true leaves	S
Scentless mayweed	9 true leaves	S
Black bindweed	4 true leaves	S
Redshank	6 true leaves	S
Knotgrass	8 true leaves	S
Groundsel	4 side shoots visible	S
Red dead-nettle	5 true leaves	MR
Henbit dead-nettle	8 true leaves	MS
Volunteer oilseed rape	4 true leaves	S
Shepherd's purse	6 true leaves	S
Fat-hen, Maple-leaved goosefoot	6 true leaves	S
Common field speedwell, Wall speedwell	6 true leaves	S

¹S = susceptible (>85%); MS = moderately susceptible (75-85%); MR = moderately resistant (60-75%); R = resistant (<60%)

Cereals: apply as a MEDIUM spray at 2-2.5 bar (30-35 psi) by conventional hydraulic ground-operated sprayer in 200-400 l/ha water to give good coverage of the target weeds. Use the higher spray volume for application in dense crops or when weeds are large or have become hardened. Apply to dry foliage.

Compatibility

For up to date details of compatible tank-mixes contact Barclay Chemicals (R&D) Ltd., Damastown Way, Damastown Industrial Park, Mulhuddart, Dublin 15, Ireland. Tel: +353 1 8112900 Fax: +353 1 8224678 E-mail: info@barclay.ie

Following crops/residues

Following treatment with Kinvara a period of at least 125 days must be observed prior to planting of succeeding crops. Only cereals and grass may be sown following a treatment with Kinvara to the previous crop. Following a crop failure, replacement crops of cereals or grass may only be sown after ploughing and provided 125 days have elapsed since the application of Kinvara. Kinvara residues in plant tissues (including manure and digestate) which have not completely decayed may affect succeeding susceptible crops. If treated crop remains have not fully decayed by the time of planting following crops then avoid planting: peas, beans and other legumes; carrots and other umbellifers; potatoes; lettuce and other compositae; glasshouse and protected crops. Straw from cereals sprayed with Kinvara may contain residues which could damage certain crops. To avoid such risk bale and cart away the straw. Where straw is chopped and incorporated do not plant winter beans in the same year as treatment with Kinvara.

Care of Sprayer

Traces of actives left in the sprayer may damage susceptible crops if the equipment is subsequently used without sufficient cleaning. Directly after each days use with KINVARA, thoroughly wash out the sprayer using a standard tank cleaning procedure (at least triple rinse with clean water). Ensure booms and hoses are thoroughly flushed through.

Resistance

MCPA, fluroxypyr and clopyralid are all classified as HRAC Group O herbicides. To minimize the risk of resistance developing, the following precautions are advised as part of a resistance management strategy:

- Use robust doses and the correct application timing to maximise control.
- Consider the use of cultural control methods where possible.
- Do not over rely on a single herbicide mode of action.
- Consider crop rotation to help prevent the development of resistant weeds.