

For the control of broad-leaved weeds, especially cleavers, in listed cereals, forage maize and in grassland

Warning
Special Hazards
 H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H304 May be fatal if swallowed and enters airways.
 H335 May cause respiratory irritation.
 H411 Toxic to aquatic life with long lasting effects.

Safety Recommendations
 P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
 P261 Avoid breathing dust/fume/gas/ mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
 P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P370+378 In case of fire: Use carbon dioxide, dry powder or water fog for extinction.
 P501 Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

THE CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH) MAY APPLY TO THE USE OF THIS PRODUCT AT WORK.

MAPP No. 13458

Contains 200 g/l (20.6% w/w) FLUROXYPYR as an emulsifiable concentrate

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

See Directions for Use on attached leaflet for the following:
 Safety Precautions, Maximum individual dose of product, Maximum total dose, Latest time of application and 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

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PROTECT FROM FROST - SHAKE THOROUGHLY BEFORE USE

SAFETY PRECAUTIONS

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.

See PRECAUTIONS marked *

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

PRECAUTIONS

*WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate.

*WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when using low volume nozzles in a knapsack sprayer, hand-held rotary atomiser and weed-wiping equipment or when making cut stump treatments.

*WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD) when using stem injection equipment.

*WASH CONCENTRATE from skin and 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.

HARMFUL TO FISH OR OTHER AQUATIC LIFE. The maximum concentration of glyphosate in the water must not exceed 0.2ppm or such lower concentration as the appropriate water regulatory body may require.

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

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

PRECAUTIONS FOR AQUATIC USE

DO NOT DUMP surplus herbicide in water or ditch bottoms.

The maximum concentration of glyphosate in the water must not exceed 0.2 ppm or such lower concentration as the appropriate regulatory body may require.

ENVIRONMENTAL PROTECTION

HARMFUL TO FISH OR OTHER AQUATIC LIFE. The maximum concentration of glyphosate in the water must not exceed 0.2 ppm or such lower concentration as the appropriate water regulatory body may require.

Livestock must be kept out of treated areas [for at least 3 days following treatment] IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'

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 MAN 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).

IMPORTANT INFORMATION

FOR USE AS AN AGRICULTURAL HERBICIDE		
Crop or Situation	Maximum total dose	Latest time of application
Winter Wheat Winter Barley	2 l/ha	Before the flag leaf sheath opening stage
Winter Oats Durum Wheat Rye Triticale	1 l/ha	Before the second node detectable stage
Spring Wheat Spring Barley	0.75 l/ha	Before the flag leaf sheath extending stage
Spring Oats	0.75 l/ha	Before the second node detectable stage
Forage Maize	1 l/ha	Before the seven leaves unfolded stage
Established Grassland	2 l/ha per year see other specific restrictions	-
Newly sown Grass Leys	0.75 l/ha per year see other specific restrictions	-

This product is approved in the UK under the Plant Protection Products Regulations (as amended).

Other specific restrictions

1. Livestock must be kept out of treated areas [for at least 3 days following treatment] IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'
2. Non-returnable containers must not be re-used for any purpose.
3. This product must not be applied before 1 March in the year of harvest.
4. When the product is applied as a spot treatment to permanent grassland, rotational grass and newly sown grass leys the maximum concentration must not exceed 30 ml product per 10 Litres water.

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.

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. Do not include treated ragwort in hay or silage crops

Activity

Barclay Hurler is a translocated herbicide taken up by the leaves of weeds. It is essential that the target weeds have fully emerged before application and that good spray cover of the weed foliage is achieved. Weeds which emerge after application are not controlled.

Growing Conditions

Best results are achieved against small weeds growing actively under warm, moist conditions; these conditions are particularly important for the control of cleavers. Ensure that crops are vigorous with growth unaffected by frost, pests, disease, nutrient deficiency or moisture stress before treatment. Do not treat waterlogged crops or crops under drought stress.

Cereals and Forage Maize

Spring Treatments (from 1st March onwards on winter crops)

Crop	Rate of Barclay Hurler	Weeds Controlled and latest stage of control	Time of Application for Crop
Autumn Application to Winter Wheat and Winter Barley	0.5 l/ha HURLER + recommended rate of HBN~	Common chickweed (50mm) Field forget me not (50 mm) Henbit dead-nettle (6 true leaves) Red dead-nettle (6 true leaves) Charlock (Up to 6 true leaves) Common poppy (Up to 6 true leaves) Groundsel (Up to 6 true leaves) Mayweed SPP (Up to 6 true leaves) Shepherd's purse (Up to 6 true leaves) Speedwell SPP (Up to 6 true leaves) Volunteer rape (Up to 6 true leaves)	From two leaf stage of the crop until the end of February (but not after first node detectable stage GS 31) *Autumn Applications will not control weeds which germinate after spraying. In most circumstances a follow-up spray will be necessary to obtain season long weed control.
	0.75 l/ha HURLER + recommended rate of HBN~	Cleavers (50mm)	Applications can be made to crops sown in the autumn.
Spring Application to Winter Wheat and Winter Barley.	1 l/ha	Cleavers (flowering) Common chickweed (flowering) Black-bindweed (to 6 leaves) Red dead-nettle (to 4 leaves) Knotgrass (to 2 leaves)	From the two leaf stage of the crop (GS 12) to before the late boot stage (before GS 45).
	2 l/ha in 300 – 400 l/ha water see RESIDUES <i>DO NOT TANK-MIX BARCLAY HURLER WITH ANY OTHER PRODUCT when using at 2 l/ha</i>	Above weeds plus Volunteer potatoes (10-40 cm (4-16") high). Complete kill of haulm will not be achieved but it will be stunted; optimum control obtained when haulm 15cm (6") high.	From the third node detectable stage of the crop to before the late boot stage (before GS 45).
Spring Application to Winter oats Durum wheat Rye Triticale	1 l/ha Do not tank-mix with any herbicide for use on triticale.	Cleavers (flowering) Common chickweed (flowering) Black-bindweed (to 6 leaves) Red dead-nettle (to 4 leaves) Knotgrass (to 2 leaves)	From the two leaf stage of the crop (GS 12) but before the first node detectable stage (Before GS 31).
Spring wheat Spring barley	0.75 l/ha	Cleavers (to 10cm) Common chickweed (to 10cm) Black-bindweed (to 4 leaves) Knotgrass (to 2 leaves)	From the two leaf stage of the crop (GS 12) to before flag leaf stage (before GS 39).
Spring oats	0.75 l/ha	Cleavers (to 10cm) Common chickweed (to 10cm) Black-bindweed (to 4 leaves) Knotgrass (to 2 leaves)	From the two leaf stage of the crop (GS 12) to before the first node detectable stage (GS 31).
Forage maize	1 l/ha(14 fl.oz/ac)	Black nightshade (cotyledons – 6 true leaves)	From 3-6 leaves unfolded and before the crop is 20cm (8") high and before any buttress roots start to develop at the first node *DO NOT apply to forage and grain maize beyond the recommended growth stages or in a tank-mix with any other product.

Grassland

Newly sown and established grass leys and permanent pasture may be treated with Barclay Hurler for the control of annual and perennial broad-leaved weeds. Do not spray swards containing clovers or other legumes if these are important constituents of the sward.

Crop	Rate of Barclay Hurler	Weeds Controlled and latest stage for control	Time of application
Newly sown grass leys	0.75 l/ha	Common chickweed (to 5cm)	In early autumn when the grasses are firmly established and are tillering and the weeds are growing actively.
Established grassland	2 l/ha in 300 - 400 l/ha water <i>For spot treatment use 30 ml product per 10 l water</i>	<i>Pre-flowering weeds of:</i> Broad-leaved dock Common nettle <i>(reduction of top-growth)</i>	<i>Broad-leaved dock:</i> normally in spring at the rosette stage, but may be applied 14-21 days after cutting when the weed foliage has regrown. Repeat if necessary the following year. <i>Common nettle:</i> up to mid-June when actively growing.
	2 l/ha	Bramble, Broom	Spray in June-August when actively growing but before plant begins to senesce in the Autumn. It is essential that, particularly with large bushes, all the foliage is thoroughly wetted or incomplete kill may result.
Important: <i>Livestock must be kept out of treated areas [for at least 3 days following treatment] IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'</i>			

Weather and Growing Conditions

Optimum results with Barclay Hurler can only be achieved when weeds are actively growing under good soil and weather conditions and the crop is vigorously competitive. These conditions become especially important if cleavers are to be controlled, more so if Barclay Hurler is to be applied alone in cereals without the benefit of a product in tank-mixture giving complementary activity on cleavers. Do not apply Barclay Hurler during periods of cold nights or if frost is forecast.

Cultivations

Do not roll or harrow crops within seven days of treatment with Barclay Hurler.

Undersown Crops

Do not use Barclay Hurler on crops undersown with clovers or other legumes. Barclay Hurler may be used on crops undersown with grasses only provided that these are firmly established and are tillering.

Application (BCPC definitions)

Apply to dry foliage. Do not spray if rain is imminent. Avoid spray drift onto nearby crops or areas. Avoid overlapping spray swaths.

Do not use on crops grown for seed production

Cereals and forage maize: apply as a MEDIUM spray at 2-2.5 bar (30-35 psi) by conventional hydraulic ground-operated sprayer in 170-340 l/ha water to give good coverage of the target weeds; increase the spray volume to 300-400 l/ha water when treating volunteer potatoes. Use the higher spray volume for application in dense crops or when weeds are large or have become hardened. Apply to dry foliage.

Grassland: apply as a MEDIUM spray at 2-2.5 bar (30-35 psi) by conventional hydraulic ground-operated sprayer in 200-400 l/ha, using a minimum 300 l/ha on established grassland, to give good coverage of the target weeds. Use the higher spray volume for application in dense crops or when weeds are large. When overall spraying is not justified, small weed infested areas or individual weeds may conveniently be spot treated by knapsack sprayer or hand lance connected to a powered conventional hydraulic sprayer. Preferably use a flood jet to avoid spray drift. Spray to just wet the weed foliage evenly but before run-off occurs.

Compatibility

Barclay Hurler is compatible in tank-mix with the following approved formulations. When tank-mixing Barclay Hurler with a partner, the Directions for Use of the partner product must be strictly observed, together with the Directions for Use of this label. Mix Barclay Hurler in the spray tank first except when mixing with wettable powders, suspension concentrates or water dispersible granules unless directed otherwise. Spray out immediately after mixing. Do not tank-mix with any herbicide when treating triticale.

Chlormequat ± choline chloride (M11365, M11373, M11374, M11366, M11367, M11368)	Fenpropimorph (M12118)
Clopyralid (M11357)	Cypermethrin (M13159)
Dichlorprop (M11067)	Prochloraz (M11352)
Carbendazim (M09000, M13289, M13291)	Propiconazole (M13167)
MCPA (M10544, M12046)	Chlorothalonil (M11328)
Fenpropidin (M12317)	Triadimenol (M11417)

Residues

Do not sow peas, beans, clovers or any other legume for 12 months on land treated with Barclay Hurler at 2 l/ha (28 fl.oz). All manure or crop residues derived from crops treated with Barclay Hurler at 2 l/ha (28 fl.oz/ac) must be returned to grassland or land to be cropped with cereals. All straw from crops treated at 2 l/ha must not be incorporated back into the soil.

Care of Sprayer

Directly after each days use with Barclay Hurler, wash out the sprayer thoroughly with clean water and a wetting agent recommended for the cleaning of sprayers. Traces of fluroxypyr left in the sprayer may damage susceptible crops when the equipment is subsequently used.

Mixing

Pour the required quantity of Barclay Hurler 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.