

**Barclay**

CROP PROTECTION

# Arbiter®

**Arbiter is a translocated herbicide for the control of broad-leaved weeds, especially cleavers;**

- |                                   |                    |                    |
|-----------------------------------|--------------------|--------------------|
| • <b>Barley</b>                   | • <b>Oats</b>      | • <b>Triticale</b> |
| • <b>Forage &amp; Grain maize</b> | • <b>Rye</b>       | • <b>Wheat</b>     |
|                                   | • <b>Grassland</b> |                    |

**FOR USE AS AN AGRICULTURAL HERBICIDE IN WINTER AND SPRING CEREALS, FORAGE AND GRAIN MAIZE AND GRASSLAND.**

**Please see inside for DIRECTIONS FOR USE.**

**FOR PROFESSIONAL USE ONLY**

**Danger**

Flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

May cause respiratory irritation

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) for extinction.

Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste



PCS No: 05270

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

**Manufacturer:**

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**Approval Holder:**

**Barclay Chemicals (R&D) Ltd.**  
Contact details as above.

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**PROTECT FROM FROST**

1/22xxx-fx

5L and 20L use no size fixaform. If 1L label is flat label then print size on label. Contract packing will require size and e-mark on the label.

Ⓢ Required for 5ml – 10L. 1L and 5L will have e mark printed on can at production.

## PRECAUTIONS

In case of emergency contact the Poisons Information Center Tel: +353 1 8092566 or +353 1 8379964  
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)

## 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.

### FOR USE AS AN AGRICULTURAL HERBICIDE

Crop or use	Maximum individual dose	Maximum total dose	Latest time of application
Winter Wheat Winter Barley	2 l/ha	2 l/ha	Before late boot stage (GS 45)
Winter Oats Durum Wheat Rye Triticale	1 l/ha	1 l/ha	Before first node detectable stage (GS 31)
Spring Wheat Spring Barley	0.75 l/ha	0.75 l/ha	Before flag leaf stage (GS 39)
Spring Oats	0.75 l/ha	0.75 l/ha	Before first node detectable stage (GS 31)
Forage and Grain Maize (open crops)	1 l/ha	1 l/ha	Before seven leaves unfolded stage (GS 17)
Grassland	2 l/ha	2 l/ha	-
Newly sown grass Leys	0.75 l/ha	0.75 l/ha	-

## GENERAL INFORMATION

Arbiter 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.

### KNAPSACK RATE ESTIMATOR

Using standard nozzles appropriately calibrated, each litre of mixture will treat 33m<sup>2</sup> (300 L/ha water) The rate of product applied using a knapsack sprayer must be equivalent to the application rates authorised in the 'Directions for use' section of the label.

Arbiter Recommendation:	Quantity of Arbiter required per 10 litres to treat 330m <sup>2</sup>	Area of Use
2 l/ha in 300 - 400 l/ha water	30 ml	Established grassland to control Pre-flowering weeds of: Broad-leaved dock Common nettle (reduction of top-growth)

## 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.

## WEATHER AND GROWING CONDITIONS

Optimum results with Arbiter 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 Arbiter is to be applied alone in cereals without the benefit of a product in tank-mixture giving complementary activity on cleavers. Do not apply Arbiter during periods of cold nights or if frost is forecast.

## CULTIVATIONS

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

## UNDERSOWN CROPS

Do not use Arbiter on crops undersown with clovers or other legumes. Arbiter 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. Apply as a MEDIUM spray at 2-2.5 bar (30-35 psi) by conventional hydraulic ground-operated sprayer. Do not use on crops grown for seed production

**Cereals and forage and grain 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

Arbiter is compatible in tank-mix with the following approved formulations. When tank-mixing Arbiter 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 Arbiter 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 or forage and grain maize.

Chlormequat ± choline chloride	Fenpropimorph
Clopyralid	Cypermethrin
MCPA	Mesosulfuron-methyl
Chlorothalonal	Prochloraz
Fenpropidin	Propiconazole

## **RESIDUES**

Do not sow peas, beans, clovers or any other legume for 12 months on land treated with Arbiter at 2 l/ha (28 fl.oz). All manure or crop residues derived from crops treated with Arbiter 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 Arbiter, 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 Arbiter 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.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of the container safely.

SPECIMEN -  
2016 to date

## CEREALS

**Weeds Controlled:** broad-leaved weeds and volunteer potatoes

**Crops:** winter & spring wheat, winter & spring barley, winter & spring oats, durum wheat, rye, triticale, forage and grain maize

**Other specific information:** Spring Treatments (from 1st March onwards on winter crops)

Crop	Weeds Controlled and latest stage of control	Time of Application for Crop	Dose Rate
Autumn Application to Winter Wheat and Winter Barley	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.	0.5 l/ha ARBITER + recommended rate of HBN~
	Cleavers (50mm)	Applications can be made to crops sown in the autumn.	0.75 l/ha ARBITER + recommended rate of HBN~
Spring Application to Winter Wheat Winter Barley	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).	1l/ha
	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).	2 l/ha in 300 – 400 l/ha water see RESIDUES  <i>DO NOT TANK-MIX ARBITER WITH ANY OTHER PRODUCT when using at 2 l/ha</i>
Spring Application to Winter oats Durum wheat Rye 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).	1 l/ha Do not tank-mix with any herbicide for use on triticale.
Spring wheat Spring barley	Cleavers (to 10 cm) Common chickweed (to 10 cm) 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).	0.75 l/ha
Spring oats	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).	0.75 l/ha

~HBN's are products containing ioxynil and/or bromoxynil. Oxytril CM is a recommended HBN tank mix partner used at the manufacturer's recommended rates.

## FORAGE AND GRAIN MAIZE

**Weeds Controlled:** broad-leaved weeds

**Crops:** forage and grain maize

Crop	Weeds Controlled and latest stage of control	Time of Application for Crop	Dose Rate
Forage and grain maize	Black nightshade (cotyledons – 6 true leaves)	<p>*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.</p> <p>*DO NOT apply to forage and grain maize beyond the recommended growth stages or in a tank-mix with any other product.</p>	1 l/ha (14 fl.oz/ac)

## GRASSLAND

**Weeds Controlled:** Annual and perennial broad-leaved weeds

**Crops:** Grassland

**Other specific information:** Newly sown and established grass leys and permanent pasture may be treated with Arbitor 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	Weeds Controlled and latest stage of control	Time of Application	Dose Rate
Newly sown grass leys	Common chickweed (to 5cm)	In early autumn when the grasses are firmly established and are tillering and the weeds are growing actively.	0.75 l/ha
Established grassland	<p><i>Pre-flowering weeds of:</i> Broad-leaved dock Common nettle (reduction of top-growth)</p>	<p><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 re-grown. Repeat if necessary the following year.</p> <p><i>Common nettle:</i> up to mid-June when actively growing.</p>	<p>2 l/ha in 300 - 400 l/ha water</p> <p><i>For spot treatment use 30 ml product per 10 L water</i></p>