For use only as an agricultural herbicide (contact and residual) for the control of annual meadow grass, and a range of broad-leaved weeds in winter wheat, winter barley and spring barley.

A suspension concentrate formulation containing 250 g/L (22.4% w/w) flurtamone and 100 g/L (8.9% w/w) diflufenican.

For Professional use only.

Authorisation Holder: Bayer CropScience Ltd.
Marketing company: Bayer CropScience Ltd.

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Milton Road,
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Freephone 1800 818534

For 24 hour emergency information contact Bayer CropScience Ltd. Freephone 1800 409399

SAFETY PRECAUTIONS

Operator Protection
Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
- Wear suitable protective gloves when handling the concentrate.
- Wash hands before eating and drinking 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 via drains from farmyards and roads.
- Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.
- To protect aquatic organisms respect an unsprayed buffer zone of 5 m to surface water bodies.

Storage and Disposal
- Keep in original container, tightly closed, in a safe place.
- Keep out of reach of children.
- Keep away from food, drink and animal feedingstuffs.
- Wash out container thoroughly, empty washings into spray tank and dispose of safely.

READ ALL INSTRUCTIONS CAREFULLY BEFORE USE

Crops: Maximum individual dose: Maximum number of applications: Maximum total dose: Latest time of application:
Winter wheat, winter barley, spring barley 0.5 L/ha - 0.5 L/ha Before beginning of stem extension (GS 30) of the crop

To access the Safety Data Sheet for this product scan the code or use the link below:
www.bayercropscience.ie/sds/bacara.pdf

PCS No. 04317

PROTECT FROM FROST

IE84474002a rS4a

Safety Information

BACARA
A suspension concentrate formulation containing 250 g/L (22.4% w/w) flurtamone and 100 g/L (8.9% w/w) diflufenican.

Warning
- Very toxic to aquatic life with long-lasting effects.
- Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.
- Contains 1,2-benzisothiazolin-3-one: May produce an allergic reaction.

To avoid risks to human health and the environment, comply with the instructions for use.

For 24 hour emergency information contact Bayer CropScience Ltd. Freephone 1800 409399
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.

RESTRICTIONS

Do not treat durum wheat, undersown cereals or those due to be undersown.
Do not treat broadcast cereal crops as uncovered seed may be damaged.
Do not broadcast oilseed rape, or any other brassica crops, following the use of Bacara in the previous crop.
Do not direct-drill autumn sown oilseed rape following the use of Bacara in the previous crop.
Do not harrow the crop at any time after application.
Do not roll autumn-treated crops until the spring.
Do not use on sands, or very light soils (Soil Texture (85) System) or very stony or gravelly soils as there is a risk of crop damage.
Do not use on soils containing more than 10% organic matter.
Do not use on waterlogged soils, or on crops subjected to temporary waterlogging by heavy rainfall, as there is a risk of persistent crop damage which may result in yield loss.
Avoid treating crops suffering from stress, pests, disease attack or trace element deficiency.
Application should not be made to frosted crops. Sharp or severe frosts following application to winter wheat or winter barley may cause crop scorch.
To prevent damage, care must be taken to avoid drift onto neighbouring crops.

WEEDS CONTROLLED

Strains of some annual grasses e.g. black-grass, wild oats, and Italian ryegrass, have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from Teagasc, your distributor, crop advisor or product manufacturer.

Key aspects of the Bacara Resistance Management Strategy are:

- ALWAYS follow WRAG guidelines for preventing and managing herbicide resistant weeds
- DO NOT use Bacara as a stand-alone treatment for black-grass control. Use only in tank mix or sequence with effective herbicides with alternative modes of action
- DO NOT use Bacara as the sole means of grass weed or broad-leaved weed control in successive crops
- ALWAYS use grass and broad-leaved weed herbicides with alternative modes of action throughout the cropping rotation
- ALWAYS monitor weed control effectiveness and investigate any odd patches of poor grass or broad-leaved weed control. If unexplained contact your agronomist who may consider a resistance test appropriate.

The following weeds will be controlled at the growth stages stated below:

<table>
<thead>
<tr>
<th>Weed</th>
<th>Control at 0.5 L/ha</th>
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</thead>
<tbody>
<tr>
<td><strong>Grasses</strong></td>
<td></td>
</tr>
<tr>
<td>Annual meadow-grass</td>
<td>Moderately susceptible pre-em. up to 2 leaf stage (GS 12)</td>
</tr>
<tr>
<td>Common chickweed</td>
<td>Moderately resistant pre-em. up to 4 true leaves (GS 14)</td>
</tr>
<tr>
<td>Common field-speedwell</td>
<td>Susceptible pre-em. up to 2 true leaves (GS 12)</td>
</tr>
<tr>
<td>Field pansy</td>
<td>Susceptible pre-em. up to 4 true leaves (GS 14)</td>
</tr>
<tr>
<td>Volunteer oilseed rape</td>
<td>Moderately resistant post-em. up to the cotyledon stage (GS10)</td>
</tr>
</tbody>
</table>

(Note: Pre-em. or Post-em. refers to Pre- or Post-emergence of the weed)

Where Bacara is used as an early autumn treatment, under some conditions there may be emergence of certain spring germinating weeds. Speed of activity is usually dependent on temperature and growing conditions. Activity can be slow under cool conditions. Moist soils at and after application are necessary to give the best results. Following treatment, crops occasionally show transient discoloration on the leaves.
CROP SPECIFIC INFORMATION

Good weed control depends on burying any trash or straw before or during seedbed preparation.

Loose and fluffy seedbeds should be rolled before application. The final seed bed should be fine and firm and should not contain clods greater than fist size. The crop should be drilled to the normal depth of 2.5 cm. It is important to ensure that the seed is well covered.

Winter wheat, winter barley and spring barley

Apply via a horizontal boom sprayer at a rate of 0.5 L/ha.
Apply in 200-400 L/ha as a MEDIUM spray (BCPC category). Use the higher volume where crop or weed foliage is dense. A spray pressure of at least 2 bars is advised. Good even spray coverage of soil and weeds is essential.

Ensure that spray swaths do not overlap as there is a risk of crop discolouration, particularly when application is made to soft rapidly growing crops. These effects are transitory in nature and will normally have no adverse effect on grain yield.

Apply pre or post crop emergence from the first expanded true leaf stage (GS 11) when susceptible weeds have not passed the stage shown in the above table, and before the beginning of stem extension (GS 30) of the crop.

FOLLOWING CROPS and CROP FAILURE

In the event of a crop failure for any reason, soil treated with Bacara can be re-drilled immediately with winter wheat, after normal cultivation. Ploughing is not essential. Re-drilling may also take place with winter barley, but only after ploughing. Fields must be ploughed and an interval of 20 weeks should elapse between treatment and subsequent planting of the following spring sown crops: spring wheat and potatoes. An interval of 18 weeks is required for spring oilseed rape, field beans and peas. Re-drilling (before the subsequent autumn) must only take place with listed crops.

In the event of a spring barley crop failure for any reason, soil treated with Bacara can be re-drilled with any of the named crops listed above where the same interval and cultural practices are conducted prior to re-drilling.

Subsequent cropping in the normal rotation

Where Bacara and other products containing diflufenican are applied to successive cereal crops, levels of diflufenican will build up in the soil.

Ploughing with complete inversion of the furrow must take place before planting any following non-cereal crop. Even where ploughing is carried out, there may still be a risk of damage to following crops of onions, leek and related species, or clover. As a precaution, users who rent out their land to growers of these crops should not use diflufenican containing products in successive years before renting out the land.

Subsequent autumn cropping in the normal rotation: After harvest, soils previously treated with Bacara should be ploughed (ensuring complete inversion of the furrow slice) or cultivated to a depth of 15 cm. Thorough mixing of the soil must take place before drilling field beans, leaf brassicas or winter oilseed rape. For sugar beet seed crops and winter onions the soil must be ploughed ensuring complete inversion of the furrow slice. Avoid excessive compaction. Autumn sown cereals can be drilled as normal. Only drill crops listed.

Occasionally, in brassica crops some seedlings may show slight discoloration on the cotyledons. These effects are quickly outgrown and should not affect subsequent growth.

Subsequent spring cropping in the normal rotation: Ploughing must take place before planting any spring crop, other than those where ploughing is not needed in the autumn.

MIXING

Shake the container well before use. Half fill the spray tank with clean water, begin agitation and add the required amount of Bacara. Wash out the container and add the washings to the spray solution, before topping up with clean water. Continue agitation until spraying is completed. Do not leave the sprayer filled with the spray solution standing for long periods. Wash out the sprayer thoroughly after use using a wetting agent or proprietary tank cleaner.

COMPATIBILITY

Bacara may be applied as a tank-mix with a range of products. Contact Bayer CropScience for compatibility information on specific tank-mixes. Full manufacturer's instructions must be followed for each tank-mix component.

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