



Bacara®

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For use only as an agricultural herbicide (contact and residual) for the control of annual meadow-grass, loose silky bent grass and certain broad-leaved weeds in winter wheat, winter barley, winter oats, winter rye and triticale.

For 24 hour emergency information contact Bayer CropScience Limited
Telephone: 1 800 409 399

A suspension concentrate formulation containing 250 g/L (22.4% w/w) flurtamone and 100 g/L (8.9% w/w) diflufenican
Bayer CropScience Limited, Bayer Limited
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Risk and Safety Information
BACARA A suspension concentrate containing 250 g/L flurtamone and 100 g/L diflufenican.



DANGEROUS FOR THE ENVIRONMENT

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Keep out of reach of children
Keep away from food, drink and animal feedingstuffs
This material and its container must be disposed of in a safe way.
Use appropriate containment to avoid environmental contamination.
To avoid risks to man and the environment, comply with the instructions for use.

PCS No. 01186

Crop	Maximum individual dose	Maximum no. of applications	Latest time of application
Winter wheat, Winter barley, Winter oats, Winter rye and triticale	1.0 L/ha	1	Up to GS32 (Zadoks)

It may be appropriate to use a reduced rate of Bacara on certain varieties of oats grown on lighter soils to reduce the risk of crop damage.

SAFETY PRECAUTIONS

Operator Protection

Wear suitable protective gloves when handling the concentrate.
Wear suitable protective clothing (coveralls) and suitable protective gloves during application.
Wash hands before eating and drinking and after work.

Environmental Protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

Storage and Disposal

Keep in original container, tightly closed, in a safe place.
Wash out container thoroughly, empty washings into spray tank and dispose of safely.

PROTECT FROM FROST

READ ALL INSTRUCTIONS CAREFULLY BEFORE USE

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 spring oats, spring wheat, spring barley, 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.

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. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

Grasses

- Annual Meadow-grass*
- Pre-emergence up to 1 tiller (GS21)
- Loose silky-bent
- Pre-emergence up to 1 tiller (GS21)

Broad-leaved Weeds	Pre-emergence	2 true leaves / whorls †	4 true leaves	6 true leaves	Maximum weed size (diameter/ height)
Cleavers*/**	✓	✓†			
Common Chickweed	✓	✓	✓	✓	150mm
Common Field-speedwell	✓	✓	✓	✓	50mm
Common Poppy	✓	–	–	–	
Corn spurrey	-	✓†			
Field Forget-me-not	✓	✓	✓	✓	
Field Pansy	✓	✓	✓	✓	
Flixweed #	✓				
Ivy-leaved Speedwell	✓	✓	✓		
Knotgrass	✓				

Broad-leaved Weeds	Pre-emergence	2 true leaves / whorls †	4 true leaves	6 true leaves	Maximum weed size (diameter/ height)
Mayweeds	✓	✓	✓	✓	
Red Dead-nettle	✓	✓	✓	✓	
Scarlet Pimpernel	✓				Cotyledon
Shepherds Purse	✓	✓	✓		
Treacle Mustard #	✓				Cotyledon
Volunteer Oilseed Rape***	✓	✓(to 3 true leaves)			

- No data
- # Qualified Minor Use Recommendations. The evidence of effectiveness of these recommendations is limited
- * Moderately susceptible
- ** Useful control will usually be achieved, but in situations of heavy infestations of cleavers a follow up treatment with a specific cleaver control herbicide may be required.
- *** More strongly established volunteers of oilseed rape (i.e. from the fourth true leaf stage) can sometimes survive and may require a follow up treatment with an appropriate post emergence herbicide.



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 winter oats

Apply via a horizontal boom sprayer at a rate of 1.0 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 bar is advised. Good even spray coverage of soil and weeds is essential. It may be appropriate to use a reduced rate of Bacara on certain varieties of oats grown on lighter soils to reduce the risk of crop damage. Ensure that spray swaths do not overlap.

Only one application of Bacara should be made to the crop.

Apply pre or post crop emergence from the first expanded true leaf stage (GS11) when susceptible weeds have not passed the stage shown in the above table, and before the crop reaches the second node detectable stage (GS32).

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, spring barley 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.

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 brassicae 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.