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## Herbicide

For use only as an agricultural herbicide. A contact and residual herbicide for pre and post-crop emergence use against a range of broad leaved weeds and annual

meadow-grass in winter wheat and winter barley.

A suspension concentrate formulation containing 400 g/L flufenacet and 200 g/L diflufenican

### Safety information

#### **FIREBIRD**

A suspension concentrate formulation containing 400 g/L flufenacet and 200 g/L diflufenican.



#### **Warning**

**Harmful if swallowed. May cause an allergic skin reaction. May cause damage to organs (nervous system) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects.** Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Call a POISON CENTRE or doctor/physician. 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. **To avoid risks to human health and the environment, comply with the instructions for use.**

**PCS No. 04221**

For Professional use only

IE84973947b rA6a

## SAFETY PRECAUTIONS

### Operator Protection

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate. WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces. WHEN USING DO NOT EAT, DRINK OR SMOKE. IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible). Avoid contact with skin.

### 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). To protect aquatic organisms respect an unsprayed buffer zone of 5 m to surface water bodies. Aim spray away from water. Use appropriate containment to avoid environmental contamination.

### Storage and Disposal

DO NOT RE-USE CONTAINER for any purpose. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. 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 safely. Keep out of reach of children. Keep away from food, drink and animal feedingstuffs.

### READ ALL INSTRUCTIONS CAREFULLY BEFORE USE



firebirdiesds

To access the **Safety Data Sheet** for this product scan the code or use the link below:

[www.bayercropscience.ie/sds/firebird.pdf](http://www.bayercropscience.ie/sds/firebird.pdf)

or alternatively contact your supplier

**Authorisation holder:** Bayer CropScience Ltd, 230 Cambridge Science Park, Milton Road, Cambridge, CB4 0WB, United Kingdom  
**Marketing company:** Bayer CropScience Ltd, Bayer Ltd, The Atrium, Blackthorn Road, Sandyford, Dublin 18.  
Freephone: 1800 818534

**For 24 hour emergency information contact Bayer CropScience Ltd. Telephone: 00800 1020 3333**

## RATE OF USE

<b>Crop</b>	<b>Maximum individual dose</b>	<b>Maximum number of applications</b>	<b>Latest time of application</b>
Winter wheat	0.3 litres product per hectare	2 per crop	Before 31st March in the year of harvest and before third tiller stage (GS 23).
Winter barley	0.3 litres product per hectare	2 per crop	Before 31st March in the year of harvest and before fourth tiller stage (GS 24).

Where the second application of a sequence is made after 31st December, the first application must be made before GS 13 of the crop.

A minimum interval of 6 weeks must be observed between applications.

Method of application: Tractor mounted horizontal boom sprayer. A spray pressure of at least 2 bar is advised. Apply Firebird in 200–400 litres per hectare water. Use the higher volume where crop or weed foliage is dense. Apply as a medium spray quality. Good, even spray coverage of soil and weeds is essential. Ensure that spray swaths do not overlap. To prevent damage, care must be taken to avoid drift onto neighbouring crops

## **DIRECTIONS FOR USE**

### **RESTRICTIONS**

DO NOT treat undersown cereals or those due to be undersown.

Avoid treating crops suffering from stress as a result of drought, waterlogging, grazing, pests or disease attack, nutrient deficiency, soil compaction or other factors reducing crop growth.

Adverse crop effect (paling, reduction in vigour) may occur when there is very wet weather before and after application, particularly on crops grown on light free draining soils or where soils become waterlogged. These effects are typically transitory in nature and will have no adverse effect on crop yield in most cases.

DO NOT use on waterlogged soils or soils prone to waterlogging.

DO NOT use on sands or very light soils or very stony or gravelly soils, as there is a risk of crop damage.

Shallow drilled crops must only be treated post-emergence.

DO NOT treat broadcast crops as uncovered seed may be damaged.

DO NOT soil incorporate.

Avoid spraying during periods of prolonged or severe frosts as sharp or severe frosts following application may cause transitory discoloration or scorch from which the crop will normally recover.

DO NOT use on soils containing more than 10% organic matter.

DO NOT disturb the soil after application (e.g. by harrowing or rolling).

### **WEEDS CONTROLLED**

Strains of some annual grasses (e.g. black-grass, wild oats and Italian rye-grass) 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 copies are available from your distributor, crop advisor or product manufacturer.

WEEDS CONTROLLED AT 0.3 L/ha

Annual meadow grass	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Field pansy	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Common field speedwell	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Ivy leaved speedwell	Moderately Susceptible pre-emergence
	Susceptible post-emergence up to GS 12 (2 leaf stage)
Mayweeds	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Groundsel	Susceptible pre-emergence
Field forget-me-not	Susceptible pre-emergence
Shepherd's purse	Susceptible pre-emergence and post-emergence up to GS 12 (2 leaf stage)
Volunteer oilseed rape*	Moderately Susceptible pre-emergence up to GS 12 (2 leaf stage)
Red dead nettle	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Hen-bit dead nettle	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Cleavers**	Moderately Resistant pre-emergence
	Moderately Susceptible post-emergence up to and including GS 11 (1 whorl stage)

\*Levels of control provided can be variable. In particular strongly established volunteers of oilseed rape (particularly those beyond the 2 leaf stage) may survive and require a follow-up treatment with an appropriate post-emergence herbicide.

\*\*Useful levels of cleaver control can be achieved, but a follow-up treatment with a specific cleaver herbicide may be required in some situations.

Established perennial grasses and broad leaved weeds growing from rootstocks will not be controlled by Firebird. Speed of activity can be slow and is dependent on temperature and growing conditions. Activity can be slow under cool conditions and the final level of weed control may take some time to appear. Some soil moisture is required for Firebird to be activated. Moist soil at and after application is required to give the best results. Best results will be obtained if rain falls within 7 days of application. Residual control may be reduced under prolonged dry conditions.

### **CROP SPECIFIC INFORMATION**

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

Seedbeds must have a firm, fine tilth. Loose or cloddy seed beds must be consolidated otherwise crop damage may result due to inadequate seed cover. For pre-emergence treatments, seed should be covered with a minimum of 32 mm of settled soil.

Use at a rate of 0.3 litres of product/ha. Apply via a horizontal boom sprayer. 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. To prevent damage, care must be taken to avoid drift onto neighbouring crops.

**Winter wheat (all varieties):** Apply pre or post-emergence up to and including second tiller stage (GS 22).

**Winter barley (all varieties):** Apply pre or post-emergence up to and including third tiller stage (GS 23).

Where the second application of a sequence is made after 31st December, the first application must be made up to and including GS 12 of the crop.

A minimum of 6 weeks must elapse between treatments.

Where the total dose is between 0.3–0.6 L/ha and the first application is made after GS 12 of the crop, the latest time of application is 31st December.

A single application of 0.3 L/ha that is not part of a sequence may be made at any time up to and including GS 22 (winter wheat) or GS 23 (winter barley) of the crop and before 31st March.

### **FOLLOWING CROPS and CROP FAILURE**

Plough or cultivate to at least 15cm before planting following crops of oilseed rape, field beans and edible brassicae. Ensure thorough soil mixing before planting. Plough to at least 15 cm before planting peas, sugar beet, carrots and onions. Ensure thorough soil mixing before planting. Wheat, barley and potatoes can be drilled without any special cultivations. In the event of crop failure, for any reason, plough to at least 15 cm and sow only wheat, barley and potatoes. An interval of 12 weeks should elapse between treatment and subsequent sowing of spring wheat and spring barley.

Where Firebird and other products containing diflufenican are applied to successive cereal crops, levels of diflufenican (DFF®) will build up in the soil. Ploughing or cultivation, with complete inversion of the furrow, must take place before planting any following non-cereal crop, except potatoes. Even where ploughing or cultivation 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 DFF-containing products in successive years before renting out the land.

### **MIXING**

Shake the container well before use. Half fill the spray tank with clean water and add the required amount of Firebird. Wash out the container and add the washings to the spray solution, before topping up with clean water. Maintain continuous agitation of spray solution. 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 with two rinses.

## **COMPATIBILITY**

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

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