



<b>CONTAINS</b>	A suspension concentrate formulation containing 400 g/L flufenacet and 200 g/L diflufenican.
<b>CONTROLS</b>	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.

PCS 04221

## 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 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 water logging.

**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).

## RATE OF USE

CROP	MAXIMUM INDIVIDUAL DOSE	MAXIMUM NUMBER OF APPLICATIONS	LATEST TIME OF APPLICATION
Winter wheat	0.3 litres product per hectare	1 per crop	Before 31st December in the year of planting and before third tiller stage (GS23).
Winter barley	0.3 litres product per hectare	1 per crop	Before 31st December in the year of planting and before fourth tiller stage (GS24).

**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.

## 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.

### WEED CONTROLLED AT 0.3L/ha

Annual Meadow grass	Susceptible pre and post-emergence up to GS12 (2 leaf stage)
Field Pansy	Susceptible pre and post-emergence up to GS12 (2 leaf stage)
Common Field Speedwell	Susceptible pre and post-emergence up to GS12 (2 leaf stage)
Ivy leaved Speedwell	Moderately Susceptible pre-emergence Susceptible post-emergence up to GS12 (2 leaf stage)
Common Chickweed	Susceptible pre and post-emergence up to the early branching stage (up to 5cm)
Mayweeds	Susceptible pre and post-emergence up to GS12 (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 GS12 (2 leaf stage)
Volunteer oilseed rape*	Moderately Susceptible pre-emergence up to GS12 (2 leaf stage)
Red dead nettle	Susceptible pre and post-emergence up to GS12 (2 leaf stage)
Hen-bit dead nettle	Susceptible pre and post-emergence up to GS12 (2 leaf stage)
Cleavers**	Moderately Resistant pre-emergence Moderately Susceptible post-emergence up to and including GS11 (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 32mm 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.

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

### **Winter wheat (all varieties):**

Apply pre or post-emergence up to and including second tiller stage (GS22) and before 31st December in the year of planting.

### **Winter barley (all varieties):**

Apply pre or post-emergence up to and including third tiller stage (GS23) and before 31st December in the year of planting.

## 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 15cm 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 15cm 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 CropScience for compatibility information on specific tank-mixes. Full manufacturer's instructions must be followed for each tank-mix component.

## 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).

### Environmental Protection

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

**DO NOT ALLOW DIRECT SPRAY** from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing waterbody, or within 1m of the top of a ditch which is dry at the time of application.

Aim spray away from water.

### Storage and Disposal

**DO NOT RE-USE CONTAINER** for any purpose.

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

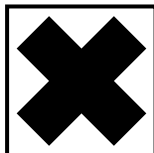
**WASH OUT CONTAINER THOROUGHLY**, empty washings into spray tank and dispose of safely.

**READ ALL INSTRUCTIONS CAREFULLY BEFORE USE.**

## RISK AND SAFETY INFORMATION

### FIREBIRD

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



**HARMFUL**



**DANGEROUS  
FOR THE  
ENVIRONMENT**

**HARMFUL IF SWALLOWED.**

**MAY CAUSE SENSITISATION BY SKIN CONTACT.**

**HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE IF SWALLOWED.**

**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.

Avoid contact with skin.

Wear suitable protective clothing and gloves.

If swallowed, seek medical advice immediately and show this container or label.

Use appropriate containment to avoid environmental contamination.

This material and its container must be disposed of in a safe way.

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

### PACK SIZE

3 L