



# Spitfire®

**HERBICIDE**

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**GROUP 4 2 HERBICIDES**

**Product Registration Number: MAPP No. 19945**

A suspension emulsion formulation containing 5 g/litre florasulam and 100 g/litre fluroxypyr. A post-emergence herbicide for use on all varieties of WINTER AND SPRING WHEAT, BARLEY, OATS, RYE AND TRITICALE and these crops UNDERSOWN WITH GRASS for the control of a range of BROAD-LEAVED WEEDS.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET  
PROTECT FROM FROST  
SHAKE WELL BEFORE USE**

## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

### Crops:

Barley (winter and spring), barley (winter and spring, undersown with grass), wheat (winter and spring), wheat (winter and spring, undersown with grass), oats, oats (undersown with grass), rye (winter), rye (winter, undersown with grass), triticale, triticale (undersown with grass)

**Maximum Individual Dose:**

**Maximum Number of Treatments:**

**Latest Time of Application:**

**Other Specific Restrictions:**

} Full details are given in the Important Information box on the attached leaflet

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

zone non imprimable

**NET CONTENTS : 5 LITRES e**

**Blank area for in-house print of  
2D data matrix code**

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SPECIMEN

**Non-printed area on page 2 ONLY  
(on the back of 2D code area printed  
on the front page)**

**Spitfire®**

Contains Hydrocarbons, C9, aromatics

**UFI: PS76-P0HG-500G-10M5**



## **DANGER**

**Flammable liquid and vapour**

**May be fatal if swallowed and enters airways**

**Causes skin irritation**

**May cause an allergic skin reaction**

**May cause respiratory irritation**

**Causes serious eye irritation**

**May cause drowsiness or dizziness**

**Very toxic to aquatic life with long lasting effects**

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

Wear protective gloves / clothing / eye / face protection.

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

IF **ON SKIN**: Wash with plenty of soap and water.

IF **IN EYES**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**DO NOT** induce vomiting.

Collect spillage.

Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for empty clean 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**

# 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 CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection. DO NOT BREATHE SPRAY.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin and eyes immediately.

WASH HANDS AND EXPOSED SKIN 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.)

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with HSE's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

This product must not be applied via hand-held equipment.

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

## Storage and disposal:

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.

DO NOT RE-USE CONTAINER for any purpose.

This label is compliant with the CPA  
Voluntary Initiative Guidance.



## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops	Maximum Individual Dose	Maximum Total Dose	Latest Time of Application
Barley (winter), barley (winter, undersown with grass), wheat (winter), wheat (winter, undersown with grass)	1.0 litre product per hectare	1.0 litre product per hectare per crop	Up to boots swollen stage (up to Zadoks 45 inclusive)
Barley (spring), barley (spring, undersown with grass), wheat (spring), wheat (spring, undersown with grass)	1.0 litre product per hectare	1.0 litre product per hectare per crop	Before flag leaf sheath extended stage (up to Zadoks 39 inclusive)
Oats, oats (undersown with grass), rye (winter), rye (winter, undersown with grass), triticale, triticale (undersown with grass)	1.0 litre product per hectare	1.0 litre product per hectare per crop	Before second node detectable stage (up to Zadoks 31 inclusive)

### Other Specific Restrictions:

For autumn planted crops a maximum total dose of 3.75 g/ha of florasulam must be observed for applications made between crop emergence in the year of planting and February 1<sup>st</sup> in the year of harvest.

The total amount of florasulam applied to a cereal crop must not exceed 7.5 g/ha.

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## 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.

### GENERAL INFORMATION

SPITFIRE is mainly absorbed through the foliage of weeds. The ideal timing for application is when the weeds are small and actively growing.

### NOTES

DO NOT apply to crops containing or undersown with clover or other legume containing mixtures.

DO NOT spray when crops are under stress from cold, drought, pest damage, nutrient deficiency etc.

DO NOT roll or harrow 7 days before or after application.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

## **WEED RESISTANCE**

SPITFIRE contains active ingredients with differing modes of action and therefore the risk of resistance building is reduced. However as florasulam is an ALS inhibitor there is a risk of resistance building to this active ingredient and so precautions should be taken to minimise the risk. Therefore avoid using single mode of action herbicides, such as ALS herbicides in the same field over a number of years. Growers are advised to apply products containing herbicides with different modes of action or use sequences or tank mixtures where two or more components are active against the target weeds.

## **CROPS**

SPITFIRE can be used on all varieties of winter and spring wheat, barley, oats, rye and triticale, and these crops undersown with grass.

## **SOIL**

SPITFIRE may be used on all soil types.

## **TIMING**

### **Winter wheat, winter barley**

SPITFIRE should be applied from 3 leaves (Zadoks 13) up to boots swollen stage (Zadoks 45).

### **Spring wheat, spring barley**

SPITFIRE should be applied from 3 leaves (Zadoks 13) up to and including before flag leaf sheath extending stage (Zadoks 39).

### **Winter oats, spring oats, winter rye, triticale**

SPITFIRE should be applied from 3 leaves (Zadoks 13) up to and including before second node detectable stage (Zadoks 31).

### **Undersown cereal crops**

SPITFIRE may be applied to winter and spring wheat, barley, oats, rye and triticale crops undersown with grass.

Application should be made when the grasses have at least 3 fully expanded leaves and when weeds are actively growing.

## **RATES OF USE, WEED SUSCEPTIBILITY AND MAXIMUM SIZE CONTROLLED**

One application of SPITFIRE at 1.0 litre/ha will control all susceptible emerged weeds. A split application may be applied up to a maximum total dose of 1.0 litre/ha where weed germination takes place over an extended period.

For autumn planted crops the maximum total dose of SPITFIRE applied must not exceed 0.75 L/ha for applications made between crop emergence in the year of planting and February 1<sup>st</sup> in the year of harvest.

Weed	Size Controlled
Cleavers <sup>1</sup>	Flowering
Chickweed <sup>2</sup>	Flowering
Hedge mustard	100 mm
Scented mayweed	Flowering
Scentless mayweed	Flowering
Shepherds purse	100 mm
Volunteer oilseed rape	Before flower buds visible
Wild radish (Runch)	100 mm

<sup>1</sup> Cleavers which germinate after application will not be controlled.

<sup>2</sup> Will be controlled by an application of 0.75 L/ha.

## APPLICATION

SPITFIRE may be applied through tractor-mounted hydraulic sprayers providing they are good working order and have been calibrated according to the manufacturer's recommendations and as advised by NRoSO (National Register of Sprayer Operators).

Do not apply through CDA applicators.

## WATER VOLUME

Apply SPITFIRE in 100 to 300 litres of water per hectare. The lower volume must only be used in open crops on small weeds.

## FOLLOWING CROPS

Crops that can be sown in the year of treatment with SPITFIRE:

Cereals, oilseed rape<sup>1</sup>, field beans, vegetable brassicas as transplants, grass.

<sup>1</sup>Vigour reductions may be seen in following crops of oilseed rape after a dry summer. This will be outgrown and will not result in yield loss.

Crops that can be sown the calendar year following treatment with SPITFIRE:

Cereals, oilseed rape, field beans, carrots, vegetable brassicas as transplants, grass, linseed, peas, sugar beet, potatoes, maize, clover (for use in grass/clover mixtures).

## JOINT APPLICATION

A joint application is the use of a product in tank mixture or sequence with another product.

**IMPORTANT NOTE:** Joint applications should only be made within the label recommendations of every product in the application.

Only one other product with an ALS inhibitor mode of action may be applied to a cereal crop treated with SPITFIRE. A further application of SPITFIRE or another product containing florasulam may also be made **providing the maximum total dose of florasulam is not exceeded<sup>1</sup>**.

SPITFIRE may be applied in joint application to the same cereal crop with one of the following ALS products:

Alias SX	Inka SX
Ally Max SX	Jubilee SX
Answer SX	Lorate
Avocet	Iodosulfuron-methyl sodium + mesosulfuron-methyl (MAPP 18100, 16216, 18217, 16190, 18222)
Avro SX	Diflufenican + iodosulfuron-methyl sodium + mesosulfuron-methyl (MAPP 16149, 17370, 17733)
Barton WG <sup>1</sup>	Mozaic SX
Biplay SX	Nevada
Boxer <sup>1</sup>	Palio
Broadway Star <sup>1</sup>	Parana
Calibre SX	Pennant
Chimera SX	Pinnacle
Concert SX	Presite SX
Cleancrop Mondial	Quantum SX
Dakota <sup>1</sup>	Ratio SX
Finish SX	Refine Max SX
Galaxy <sup>1</sup>	Seduce
GF-184 <sup>1</sup>	Simba SX
Gropper SX	Slalom <sup>1</sup>
Harmony M SX	Starane XL <sup>1</sup>
Harmony SX	Taxi
Hatra	Traton SX
Horus	Triad
Hunter <sup>1</sup>	

<sup>1</sup> The maximum **total** dose of florasulam applied to the crop must not exceed 7.5 g. For autumn planted crops a maximum total dose of 3.75 g of florasulam, must be observed for applications made **between** crop emergence in the year of planting and February 1<sup>st</sup> in the year of harvest.

Apart from these **specific** joint applications SPITFIRE must NOT be applied with any other **product** containing an ALS-inhibitor, for example amidosulfuron.

## **CROP FAILURE**

In the event of a crop failure in the spring with SPITFIRE, only the following crops may be planted: spring wheat, spring barley, spring oats, maize or ryegrass.

## **MIXING**

Half fill the spray tank with water and add the required amount of SPITFIRE. Fill up the spray tank, agitating continuously to ensure thorough mixing, and maintain agitation until spraying is complete. Use only clean water for mixing.



## SPRAY QUALITY

Apply SPITFIRE as a MEDIUM spray as defined by the BCPC system.

## TANK MIXTURES

For details on compatibilities contact your distributor or Corteva technical hotline on +44 (0) 800 689 8899 or [ukhotline@corteva.com](mailto:ukhotline@corteva.com)

Where tank mixes are used, and unless directed otherwise, the preferred order of addition of products to the spray tank is as follows: water dispersible granules, wettable powders, suspension concentrates (flowables), emulsifiable concentrates, solution concentrates. Each product should be added to the half-full sprayer and be fully dispersed before the addition of the next product.

## TANK CLEANING

To avoid subsequent injury to crops other than cereals, all spraying equipment must be thoroughly cleaned both inside and out, using All Clear Extra spray cleaner as follows:

1. Immediately after spraying, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside of tank with clean water and flush through booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
3. Half fill tank with clean water and add All Clear Extra at the recommended rate. Agitate and then briefly flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the boom and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with All Clear Extra solution containing 50 ml of All Clear Extra per 10 litres of water.
5. Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely.
6. For disposal of washings, follow Code of Practice for Using Plant Protection Products. Do not spray onto sensitive crop or land intended for cropping with sensitive crop.

**Note:** If it is not possible to drain the tank completely, step 3 must be repeated before going onto step 4.

## COMPANY ADVISORY INFORMATION

The following information does not form part of the product label under the UK Plant Protection Products Regulations and provides additional advice on product use at the discretion of Corteva Agriscience.

## TRADEMARK ACKNOWLEDGEMENTS

SPITFIRE, Barton, Boxer, Broadway, Hunter, Galaxy, Slalom and Starane are trademarks of Corteva Agriscience.

All other brand names are trademarks of other manufacturers for which proprietary rights may exist.

## **CORTEVA AGRISICENCE CONDITIONS OF SUPPLY**

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

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



<https://www.corteva.co.uk/content/dam/dpagco/corteva/eu/gb/en/files/sds/SPITFIRE-SDS.pdf>

Alternatively contact your supplier

# Spitfire®

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<b>GROUP</b>	<b>4</b>	<b>2</b>	<b>HERBICIDES</b>
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The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET**  
**PROTECT FROM FROST**  
**SHAKE WELL BEFORE USE**

### IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

**Crops:**

Barley (winter and spring), barley (winter and spring, undersown with grass), wheat (winter and spring), wheat (winter and spring, undersown with grass), oats, oats (undersown with grass), rye (winter), rye (winter, undersown with grass), triticale, triticale (undersown with grass)

**Maximum Individual Dose:**

} Full details are given in

**Maximum Number of Treatments:**

} the Important Information

**Latest Time of Application:**

} box on the attached leaflet

**Other Specific Restrictions:**

}

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**NET CONTENTS : 5 LITRES e**

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