

# Guillotine

A suspension concentrate formulation containing 300 g/l flumioxazin

**For the control of annual grass weeds and broadleaved weeds in winter wheat.**

## PRODUCT BENEFITS

- Wide broadleaved weed spectrum.
- Valuable control of Blackgrass, Annual meadow grass and other grass weeds.
- No resistance issues.
- Pre-and post-emergence use.

**LERAP category:** B

**Pack size:** 0.5 litre

**Storage:** STORE IN A COOL DRY PLACE.  
PROTECT FROM HEAT AND FROST.



**IMPORTANT INFORMATION**

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.

<b>Crop</b>	<b>Maximum individual dose</b>	<b>Maximum number of treatments</b>	<b>Latest time of application</b>
Winter wheat	0.1 l/ha	One per crop	Before fifth true leaf stage. (Before GS15)

*Other specific restriction*

- 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 PSD'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.

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.

MAPP 13562

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

## 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.**

GUILLOTINE is a protoporphyrin oxidase (PPO) inhibitor herbicide with contact activity. This contact activity is long lasting during the autumn period in moist soil, giving persistent control of a range of annual grasses and broad leaved weeds in winter wheat. GUILLOTINE is active on germinating seedlings, inhibiting chlorophyll synthesis, leading to weed death and reducing crop competition.

GUILLOTINE remains in the surface layer of the soil and does not migrate to lower layers. Activity is reliant on weeds germinating in moist soil and coming into sufficient contact with the herbicide.

### RESTRICTIONS and WARNINGS

DO NOT mix any adjuvants with GUILLOTINE.

DO NOT apply GUILLOTINE to crops with lush or soft growth.

Only apply GUILLOTINE to crops which have been sufficiently hardened by cool weather. Application to crops with soft growth will result in transient bleaching of leaves.

DO NOT apply GUILLOTINE to waterlogged soils.

DO NOT apply GUILLOTINE to soils of more than 10% organic matter as weed control may be reduced.

Crops should be drilled to 25 mm and well covered by soil.

DO NOT treat broadcast crops until they are past the three leaf stage.

DO NOT spray crops which are under stress of any kind, such as a nutritional deficiency, pest or disease attack, or waterlogging.

Seedbeds should be moist, firm, fine and free of clods.

DO NOT roll or harrow crops two weeks before treatment, or at any time after treatment.

DO NOT disturb the soil after application.

Only apply any tank mixes with GUILLOTINE in strict accordance with the restrictions on this label, as well as any restrictions which might apply on the label of the tank mix partner.

Extreme care should be taken to avoid damage by drift onto plants outside the target area.

DO NOT apply GUILLOTINE to undersown crops.

DO NOT apply GUILLOTINE during periods of prolonged frosty weather.

Light discolouration of leaf margins can occur after treatment, but there is no influence on crop yield.

### RECOMMENDED CROPS

GUILLOTINE can be used on all varieties of winter wheat.

#### Soil Types

GUILLOTINE can be used on all mineral soils up to 10% organic matter.

#### Timing

GUILLOTINE can be applied from crop pre-emergence to before GS 15, providing crops are sufficiently hardened. Best results will be obtained from using GUILLOTINE post-emergence of the crop, applied to moist soil when weeds are germinating up to the 1st true leaf stage of the weed.

#### Dose

Apply GUILLOTINE at 100 ml per hectare in 200 litres water per hectare as a fine or medium quality spray.

#### Maximum number of applications per crop

One per crop in any one growing season.

## Weed Spectrum

Broadleaved weeds	Susceptibility	Grass weeds	Susceptibility
Chickweed	S	Bent, loose silky	MS
Cleavers	MS	Blackgrass <sup>1</sup>	MR
Cranesbill, dove's-foot	S (MS pre-em)	Meadow grass, annual	MS pre-em, S up to first true leaf
Deadnettle, red	S (MS pre-em)		
Mayweed	S		
Pansy, field	S		
Shepherd's Purse	S		
Speedwell, common field	S		
Speedwell, ivy leaved	S (MS pre-em)		
Volunteer oilseed rape	S		

<sup>1</sup> UK only

Key to Susceptibility ratings:

S, Susceptible

MS, Moderately susceptible

MR, Moderately resistant

Note that weed susceptibility is up to 1st true leaf stage unless otherwise stated.

### Resistance

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 by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer. Key aspects of the GUILLOTINE resistance management strategy are:

- Always follow WRAG guidelines for preventing and managing herbicide resistant grass-weeds.
- Do not use GUILLOTINE or any other protoporphyrinogen PPO inhibitor as the sole means of grass weed control in successive crops.
- Use grass-weed herbicides with different modes of action throughout the cropping rotation.
- To reduce the risk of developing resistance, applications are made to young, actively growing weeds.
- Use tank/product mixes or sequences of herbicides with different modes of action that are active against blackgrass, within individual crops or successive crops and as part of an integrated weed control programme.
- Monitor weed control effectiveness and investigate any odd patches of poor grass weed control. If unexplained, contact your agronomist who may consider a resistance test appropriate.
- Use crop rotation and other cultural control measures to prevent and manage herbicide resistant grass weeds.
- Only apply GUILLOTINE once per crop.

### Tank mixes

Only use tank mixes if the crop is sufficiently hardened by cool weather.

Do not tank mix any adjuvants.

For further information on tank mixes, contact your distributor or Nufarm.

### Following crops

Any crop can be sown following a normal harvest after use of GUILLOTINE.

In the event of a crop failure, soil treated with GUILLOTINE can be redrilled with spring cereals, spring oilseed rape, sugar beet, maize or potatoes after ploughing.

### MIXING AND SPRAYING

Start filling the sprayer tank and start agitation.

Add sufficient GUILLOTINE for the area to be treated when the tank is at least one quarter full.

Complete the filling process with water.

Ensure the product is mixed and fully dispersed before starting spraying.

Do not overlap spray swaths.

### Sequences

GUILLOTINE can be followed by any relevant herbicide, including sulfonylurea products.

Do not follow an application of GUILLOTINE with another product for at least 14 days.

### Sprayer Cleaning

To avoid damage to crops other than cereals, immediately after spraying GUILLOTINE thoroughly clean all spray equipment, including inside and outside of lid.

Rinse the inside of the sprayer and accessory equipment with a volume of water equivalent to at least 10% of the sprayer capacity. Dispose of rinsing water.

Half fill tank with water. Add a tank cleaning agent with a pH greater than 11, such as All Clear Extra™ and circulate. Flush booms, pumps and filters. Completely empty the tank. Separately clean the nozzles and other accessories.

Repeat the rinse, flush and drain.

DISPOSE OF WASHINGS IN A RESPONSIBLE MANNER. DO NOT APPLY WASHINGS TO LAND DUE TO BE PLANTED WITH A SENSITIVE CROP.

**GUILLOTINE**

**A suspension concentrate formulation containing 300 g/l flumioxazin.**

**DANGEROUS FOR THE ENVIRONMENT****TOXIC**

**VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.**

**MAY CAUSE HARM TO THE UNBORN CHILD.**

DO NOT CONTAMINATE WATER WITH THE PRODUCT OR ITS CONTAINER.

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.

USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

WEAR SUITABLE PROTECTIVE GLOVES WHEN HANDLING THE CONCENTRATE.

KEEP OUT OF THE REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS.

WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

**To avoid risks to man 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 GLOVES when handling the concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

DO NOT BREATHE SPRAY.

WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.

**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 five metres of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for



Pesticides permits a narrower buffer zone; or within one metre of the top of a ditch which is dry at time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environmental 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 the CRD published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

### **Storage and disposal**

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

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

DO NOT RE-USE CONTAINER for any purpose.

This material and its container must be disposed of as hazardous waste

Guillotine is a trade mark of Interfarm (UK) Ltd.