



# Zephyr<sup>®</sup>

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## Fungicide

For use only as an agricultural fungicide. A fungicide for the control of foliar and ear disease in winter and spring barley.

A suspension concentrate formulation containing 175 g/L prothioconazole and 88 g/L trifloxystrobin.



Safety information

### ZEPHYR

Contains 175 g/L prothioconazole and 88 g/L trifloxystrobin.



### Warning

**May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.** Wear protective gloves/protective clothing/eye protection/face protection. If skin irritation or rash occurs: Get medical advice/attention. 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. 03792

For Professional use only

IE85794795b rA4c

## **SAFETY PRECAUTIONS**

### **Operator Protection**

Wear suitable protective clothing (coveralls) and suitable protective gloves and face protection (faceshield) when handling the concentrate.

Wear suitable protective clothing (coveralls) when applying the product.

### **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.

Spray must be aimed away from water.

### **Storage and Disposal**

Keep out of reach of children.

Keep away from food, drink and animal feedingstuffs.

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.

### **READ ALL INSTRUCTIONS CAREFULLY BEFORE USE**



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

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

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PROTECT FROM FROST

## 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.

Zephyr is a triazole and strobilurin fungicide recommended for control of a wide range of diseases on winter and spring barley

## RATE OF USE

Crop	Maximum individual dose	Maximum total dose	Latest time of application
Winter and spring barley	0.75 litres product per hectare	1.5 litres product per hectare	At any stage before beginning of flowering (GS 61)

Method of application: Tractor mounted sprayer

Risk Mitigation measures: To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

A spray pressure of 2-3 bar is recommended. Apply Zephyr in 100-300 litres water per hectare.

Apply as a medium spray quality.

## RESTRICTIONS

PROTECT FROM FROST

## DISEASES CONTROLLED

Disease	Barley
Eyespot ( <i>Oculimacula</i> spp.)	R
Powdery mildew ( <i>Blumeria graminis</i> )	C
Yellow rust	C
Brown rust	C
Sooty moulds	R
<i>Rhynchosporium</i> leaf blotch	C
Net blotch	MC
C = control    MC = moderate control    R = reduction	

### **Eyespot (*Oculimacula spp.*)**

Spray in the spring at the first sign of disease, from when the leaf sheaths begin to become erect until the 2nd node is detectable (GS 30-32).

### **Powdery Mildew (*Blumeria graminis*)**

Apply Zephyr at the first signs of disease. Where disease pressure remains high application may be repeated.

Strains of barley powdery mildew resistant to QoI fungicides are common in Ireland. Where specific control of wheat mildew is required, this should be achieved through a programme of measures, including products with recommendations for control of mildew that contain different active substances used in mixture or sequence.

### **Yellow Rust (*Puccinia striiformis*)**

Apply Zephyr at the first signs of disease. A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.

### **Brown Rust**

Apply Zephyr at the first signs of disease. A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.

### **Ear Disease Complex**

Apply Zephyr soon after ear emergence until the end of flowering (GS59-69). Control of ear diseases can result in cleaner, brighter ears.

### **Leaf Blotch (*Rhynchosporium secalis*)**

Apply Zephyr in spring at the first signs of disease. For severe infections a second application may be necessary 2-3 weeks later.

### **Net Blotch (*Pyrenophora teres*)**

Apply Zephyr at the first signs of disease in spring/early summer. For severe infections, a second application 2-3 weeks later will give most effective control when conditions remain favourable for disease development.

### **CROP SPECIFIC INFORMATION**

Zephyr may be used on all commercial varieties of winter and spring barley.

### **MIXING AND SPRAYING**

Thoroughly shake the pack before use.

Add the required quantity of Zephyr to the half-filled spray tank with the agitation system in operation and then fill to the required level. Continue agitation at all times during spraying and stoppages until the tank is completely empty. Spray immediately after mixing.

Sprayers should be thoroughly cleaned before use, and filters and jets checked for damage and blockages.

Boom height should be adjusted to ensure even coverage of the crop, particularly at later growth stages. The correct height is one at which the spray from alternate nozzles meets just above the crop, in dense crops, at later growth stages, higher water volumes should be used.

Spray equipment should be thoroughly cleaned with water and detergent after use.

## **RESISTANCE**

Zephyr contains trifloxystrobin, a member of the QoI cross resistance group. Zephyr should be used preventatively or as early as possible in the disease cycle and should not be relied upon for its curative potential. It should not be used where disease is already established. Use Zephyr as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action. You must not apply more than two foliar applications of QoI containing products to any cereal crop.

Strains of wheat and barley powdery mildew resistant to QoI's are common in Ireland. Failure to follow resistance management action may result in reduced levels of disease control. Limiting the number of sprays is an important factor in delaying the build-up of resistant pathogen populations.

The Fungicide Resistance Action Committee (FRAC) produces recommendations that may be consulted for additional information

Appropriate disease risk assessment or decision support systems must be used when deciding whether to treat with Zephyr.

## **CAUTION**

The possible development of resistance to Zephyr cannot be predicted. Should it occur Zephyr may not give satisfactory control and no responsibility can be accepted for any loss incurred.

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