



Zephyr

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For use only as an agricultural fungicide. A fungicide for the control of foliar and ear diseases in winter and spring wheat, triticale and winter and spring barley.
A suspension concentrate formulation containing 175 g/L prothioconazole and 88 g/L trifloxystrobin.

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Risk and Safety Information

ZEPHYR

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



DANGEROUS FOR THE ENVIRONMENT

Very toxic to aquatic organisms, may cause long-term adverse affects in the aquatic environment

Keep out of reach of children.
Keep away from food, drink and animal feedingstuffs.
This material and its container must be disposed of in a safe way.
Use appropriate containment to avoid environmental contamination.
Contains: Trifloxystrobin. May produce an allergic reaction.

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

PCS No. 02864

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
Wear suitable protective clothing (coveralls), suitable protective gloves when handling contaminated surfaces.
When using do not eat drink or smoke
Wash any contamination from eyes immediately if you feel unwell, seek medical advice (show label where possible).
Wash hands and exposed skin before meals and after work.

Environmental Protection

Do not contaminate surface waters or ditches with chemical or used container.

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.

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, winter and spring wheat and triticale.

RATE OF USE

Crop	Maximum individual dose	Maximum number of applications	Latest time of application
Winter and spring wheat	1.0 litre product per hectare	2 per season	At any stage before caryopsis watery ripe stage (GS 71)
Triticale	1.0 litre product per hectare	2 per season	At any stage before beginning of flowering (GS 61)
Winter and spring barley	0.75 litres product per hectare	2 per season	At any stage before beginning of flowering (GS 61)

Method of application: Tractor mounted sprayer

A spray pressure of 2-3 bar is recommended. Apply Zephyr in 200-300 litres per hectare water.

Apply as a medium spray quality.

RESTRICTIONS

PROTECT FROM FROST

DISEASES CONTROLLED

Eyespot (*Oculimacula* spp.)

Zephyr controls eyespot in wheat and reduces the incidence and severity in barley. 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).

Septoria Leaf Spot and Glume Blotch (*Septoria tritici* and *Stagonospora nodorum*)

Apply before disease is established in the crop. To protect the upper leaves and ear apply Zephyr at full flag leaf emergence (GS 39) up to mid-flowering (GS 65). Where disease pressure remains high application may be repeated.

Applications to upper leaves where *S. tritici* symptoms are present are likely to be less effective.

Powdery Mildew (*Erisiphe graminis*)

Apply Zephyr at the first signs of disease. Zephyr controls mildew in barley and when used for control of other diseases will also give control of wheat powdery mildew. Where disease pressure remains high application may be repeated.

Strains of wheat and barley powdery mildew resistant to Qol fungicides are common in Ireland.

Control of wheat powdery mildew can only be relied upon from the triazole component of Zephyr. 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. Zephyr controls yellow rust in wheat and winter barley. 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. Zephyr controls brown rust in barley (*Puccinia hordei*) and wheat (*P. recondita*). 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) for good reduction of *Fusarium* ear blight and reduction of sooty moulds. Control of ear diseases can result in cleaner, brighter ears.

Leaf Blotch (*Rhynchosporium secalis*)

Zephyr gives high levels of *Rhynchosporium* control. 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, winter and spring wheat and triticale.

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 barley powdery mildew resistant to QoI's are common in Ireland.

Limiting the number of sprays is an important factor in delaying the build-up of resistant pathogen populations. There is a significant risk of widespread resistance occurring in *Septoria tritici* populations in Ireland. Failure to follow resistance management action may result in reduced levels of disease control. 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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