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GROUP 7 | 3 | 11 FUNGICIDES



A fungicide for the control of stem-base, foliar and ear diseases in winter and spring wheat, winter and spring barley, triticale and winter rye.

An emulsifiable concentrate formulation containing 40 g/L (4% w/w) bixafen and 100 g/L (10% w/w) prothioconazole and 50 g/L (5% w/w) fluoxastrobin

For Professional use only

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IE86287579c rA11b

Safety Information

VARIANO^{XPRO}

UFI: YTG0-90S3-0002-JQ98

Contains 40 g/L (4% w/w) bixafen and 100 g/L (10% w/w) prothioconazole and 50 g/L (5% w/w) fluoxastrobin and N,N-Dimethyl decanamide.



Warning

May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the work place. IF exposed or concerned: Call a POISON CENTRE/doctor/physician. Collect spillage. Protect from sunlight. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty 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.05701



SAFETY PRECAUTIONS

Operator Protection

Wear suitable protective clothing and gloves during mixing, loading and application.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH ANY CONTAMINATION from eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals 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 of 5 m to surface water bodies.

Storage and Disposal

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

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

DO NOT RE-USE CONTAINER for any purpose.

PROTECT FROM FROST



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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/varianoxpro.pdf

or alternatively contact your supplier

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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.

Variano_{xpro} is a mixture of a carboxamide, triazolinthione and strobilurin fungicide recommended for control of a wide range of diseases on winter and spring wheat, winter and spring barley, triticale and winter rye.

RATE OF USE

Crop	Maximum individual dose:	Maximum number of applications	Maximum total dose	Latest time of application
Wheat, winter rye, triticale	1.5 litres product per hectare	2 per crop	3.0 litres product per hectare	Before grain milky ripe stage, (GS 73)
Barley	1.5 litres product per hectare	2 per crop	3.0 litres product per hectare	Up to beginning of flowering, (GS 61)

Method of application: Tractor mounted sprayer

A spray pressure of 2–3 bar is recommended. Apply Variano_{xpro} in 100–300 litres per hectare water.

Apply as a medium spray quality.

Other specific restrictions: Variano_{xpro} contains bixafen, an SDH inhibitor. A maximum of two foliar applications of product(s) containing SDH inhibitors can be applied to any cereal crop.

CROPS

Variano_{xpro} may be used on all commercial varieties of winter and spring wheat, winter and spring barley, triticale, and winter rye.

APPLICATION

Water volume

Apply Variano_{xpro} in 100–300 litres water per hectare. The higher spray volumes are recommended where the crop is dense or disease pressure / risk is high to ensure good penetration to the lower leaves and stem bases. Disease control may be compromised by reducing water volumes, where good spray coverage is difficult to achieve.

Latest Permitted Timing

In wheat, triticale and rye Variano_{xpro} may be applied from GS 25 (tillering) to before grain milky ripe stage.

In barley Variano_{xpro} may be applied from GS 25 (tillering) up to beginning of flowering stage.

Mixing

Thoroughly shake the pack before use.

Add the required quantity of Variano_{xpro} 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.

General

Sprayers should be thoroughly cleaned with water and detergent after 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.

DISEASES CONTROLLED

	Wheat	Barley	Triticale	Rye
Eyespot (<i>Oculimacula spp.</i>)	R	-	R	R
Powdery Mildew (<i>Blumeria graminis</i>)	C	C	C	C
Yellow Rust	C	-	C	-
Brown Rust	C	C	C	C
Tan Spot	C	-		-
<i>Fusarium</i> Ear blight	R	-	R	-
Sooty Moulds	R		R	-
<i>Rhynchosporium</i> Leaf Blotch	-	C	-	C
Net blotch (<i>Pyrenophora teres</i>)	-	C	-	
C = Control MC =Moderate control R= Reduction				

APPLICATION TIMING

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 Variano_{xpro} at the first signs of disease. Where disease pressure remains high application may be repeated.

Yellow Rust (*Puccinia striiformis*)

Apply Variano_{xpro} 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 (*Puccinia triticina*, *P. recondita*)

Apply Variano_{xpro} 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.

Tan Spot (*Pyrenophora tritici-repentis*)

Apply Variano_{xpro} at the first signs of disease in spring or early summer. Where disease pressure remains high application may be repeated.

Ear Disease Complex

Apply Variano_{xpro} soon after ear emergence until the end of flowering for reduction of Fusarium ear blight and sooty moulds in wheat.

Leaf Blotch (*Rhynchosporium secalis*) and Net blotch (*Pyrenophora teres*)

Apply Variano_{xpro} in spring at the first signs of disease. For severe infections a second application may be necessary 2–3 weeks later.

RESISTANCE STRATEGY

Tank mixtures or alternation with fungicides having a different mode of action against the diseases present have been shown to protect against the development of resistant forms of disease.

Apply fungicides according to manufacturer's recommendations for the target disease (or complex) at the specific crop growth stage indicated. Effective disease management is a critical parameter in delaying the build-up of resistant pathogen populations. Variano_{xpro} should be used preventatively and should not be relied on for its curative potential.

Variano_{xpro} is a mixture of three fungicides with different modes of action, a strobilurin, a carboxamide and a triazolinthione.

Variano_{Xpro} contains fluoxastrobin, a member of the QoI cross-resistance group. You must not apply more than two foliar applications of QoI-containing products to any cereal crop.

Variano_{Xpro} contains bixafen, an SDH inhibitor. Apply no more than two applications of SDH inhibitors to any cereal crop.

Isolates of certain cereal diseases with decreased sensitivity to DMI fungicides are known to exist. Where these occur or develop Variano_{Xpro} may not give satisfactory control.

Strains of 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.

CAUTION: The possible development of disease strains resistant to Variano_{Xpro} can not be excluded or predicted. Where such resistant strains occur, Variano_{Xpro} is unlikely to give satisfactory control.

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