



Variano[®]

Xpro

5L e



Fungicide

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

In cereal crops Variano^{Xpro} can increase chlorophyll content/photosynthesis in treated plants, and extend duration of green leaf area retention, for yield increases above that resulting from disease control alone.

MAPP 15218

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

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

Bayer CropScience Limited
230 Cambridge Science Park
Milton Road, Cambridge CB4 0WB
Telephone: 01223 226500

**For 24 hour emergency information
contact Bayer CropScience Limited**
Telephone: 00800 1020 3333



Safety information

VARIANO_{Xpro}

Contains 40 g/L (4% w/w) bixafen,
100 g/L (10% w/w) prothioconazole,
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.

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 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.

IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crops:	Winter and spring wheat, triticale and winter rye.
Maximum individual dose:	Wheat, triticale and winter rye: 1.5 litres product per hectare
Maximum number of treatments:	Two per crop.
Latest time of application:	Wheat, triticale and winter rye: before grain milky ripe stage.

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.



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

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SAFETY PRECAUTIONS

Operator Protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

OPERATORS MUST WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate or handling contaminated surfaces.

OPERATORS MUST WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product.

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

WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH ANY CONTAMINATION from eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after work. IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible). Do not apply by hand held equipment

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 CRD'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.

Storage and Disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN
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.

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 bixafen (a SDH Inhibitor), prothioconazole (a triazolinthione fungicide) and fluoxastrobin (a strobilurin) fungicides recommended for control of a wide range of diseases on winter and spring wheat, triticale and winter rye.

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CROPS

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

RATE OF USE

Apply Variano_{xpro} at 1.5 litre per hectare in cereals.

The maximum number of treatments per crop is two.

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.

A spray pressure of 2-3 bar is recommended.

Spray quality

Apply as a MEDIUM spray quality (as defined by BCPC).

Latest Permitted Timing

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

Eyespot (reduction of the incidence and severity), *Septoria* (leaf and glume blotch), powdery mildew, yellow rust, brown rust, tan spot (in wheat), ear disease complex (*Fusarium* ear blight) and reduction of sooty moulds).

Rye

Eyespot (reduction of the incidence and severity), powdery mildew, brown rust, *Rhynchosporium*.

APPLICATION TIMING

In cereal crops Variano_{xpro} can increase chlorophyll content/photosynthesis in treated plants, and extend duration of green leaf area retention, for yield increases above that resulting from disease control alone.

CEREALS

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).

***Septoria* Leaf Blotch and Glume Blotch (*Mycosphaerella graminicola* and *Stagonospora nodorum*)**

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

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

Variano_{xpro} contains a DMI fungicide. Resistance to some DMI fungicides has been identified in *Septoria* leaf blotch (*Mycosphaerella graminicola*) which may seriously affect the performance of some products. For further advice on resistance management in DMI's contact your agronomist or specialist advisor, and visit the FRAG-UK website.

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 (GS 59-69) for control of *Fusarium* ear blight and reduction of sooty moulds. Control of ear diseases can result in cleaner, brighter ears.

Leaf Blotch (*Rhynchosporium secalis*)

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. Bixafen is a SDH inhibitor, prothioconazole is a triazolinthione (triazole) and fluoxastrobin is a strobilurin

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.

Strains of powdery mildew resistant to QoI fungicides are common in the UK. 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.

There is a significant risk of widespread resistance occurring in *Septoria tritici* populations in the UK. Failure to follow resistance management action may result in reduced levels of disease control.

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

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