

Fungicide

Propel[®] Xpro

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

In cereal crops Propel 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.

**An emulsifiable concentrate formulation containing
50 g/L bixafen and
100 g/L prothioconazole and
250 g/L spiroxamine**

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

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

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

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GROUP 7 | 3 | 5 FUNGICIDES

MAPP 19352 F

**Shake Well
Shake Well**

PROPEL Xpro

UFI: 7DG0-S0A3-F00M-70CX

Contains 50 g/L bixafen,
100 g/L prothioconazole, 250 g/L spiroxamine
and N,N-Dimethyl decanamide

**Danger**

Harmful if swallowed or if inhaled.
Causes serious eye damage.
May cause respiratory irritation.
May cause damage to organs through prolonged
or repeated exposure.
Suspected of damaging the unborn child.
Very toxic to aquatic life with long lasting effects.

Wear protective gloves/protective clothing/eye
protection/face protection.
IF IN EYES: Rinse cautiously with water for several
minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/
physician.
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.
Contains 2-[2-(1-chlorocyclopropyl)-2-hydroxy-3-
phenylpropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione
and spiroxamine. May produce an allergic reaction.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crops:	Barley and oats
Maximum individual dose:	1.5 litres product per hectare
Maximum number of treatments:	2 with a 21 day spray interval
Latest time of application:	Up to beginning of anthesis
Aquatic buffer zone distance:	6 metres

Other specific restrictions:

There must be a 21 day interval between treatments.
Only one application may be made before 30 April followed by a second
application after 1 May Alternatively two applications can be made after
1 May.
When used on crops with a greater than 5 m aquatic buffer zone, this
product must not be applied via hand-held equipment.

**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.**



To access the Safety Data Sheet for this
product scan the code or use the link below:
[https://cropscience.bayer.co.uk/our-products/
fungicides/propel-xpro](https://cropscience.bayer.co.uk/our-products/fungicides/propel-xpro)
or alternatively contact your supplier

PROTECT
FROM FROST

Bayer

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 CLOTHING (COVERALLS), FACE PROTECTION (FACESHIELD) AND SUITABLE PROTECTIVE GLOVES) when handling the concentrate.

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

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 (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 as specified for the crop. HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY. Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the crop to the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form. The LERAP record form must be 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.

Propel_{xpro} is a mixture of bixafen (a SDH Inhibitor), prothioconazole (a triazolinthione fungicide) and spiroxamine (a spiroketoalamine) fungicides recommended for control of a wide range of diseases on winter and spring barley and oats.

PROTECT FROM FROST

CROPS

Propel_{xpro} may be used on all commercial varieties of winter and spring barley and oats.

RATE OF USE

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

The maximum number of applications is two per crop.

APPLICATION

Water volume

Apply Propel_{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.

Effectiveness using three star drift reduction technology may be reduced.

Spray quality

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

Latest Permitted Timing

Propel_{xpro} may be applied at any stage before grain milky ripe stage.

Mixing

Thoroughly shake the pack before use.

Add the required quantity of Propel_{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.

Barley

Powdery mildew, yellow rust, brown rust, *Rhynchosporium*, net blotch, *Ramularia*.

Oats

Crown rust

APPLICATION TIMING

In cereal crops Propel_{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.

Only one application may be made before 30th April followed by a second application after 1st May. Alternatively two applications can be made after 1st May.

There must be a 21 day interval between treatments.

CEREALS

Powdery Mildew (*Blumeria graminis*)

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

Yellow Rust (*Puccinia striiformis*)

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

Brown Rust (*P. hordei*)

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

Crown Rust (*Puccinia coronata*)

Apply Propel_{xpro} at the first signs of disease. Propel_{xpro} controls crown rust in winter and spring oats. 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.

Leaf Blotch (*Rhynchosporium secalis*)

Apply Propel_{xpro} 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 Propel_{xpro} 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.

Ramularia (*R collo-cygni*)

Apply Propel_{xpro} at the first signs of disease. Applications made to established infections are likely to be less effective.

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.

No more than two applications of SDH inhibitors must be applied to the same cereal crop.

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

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

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