



Protendo[®] Extra

For use as an agricultural fungicide for the control of stem-base, foliar and ear diseases in winter and spring wheat (also reduction of the mycotoxin deoxynivalenol), winter rye, triticale and winter and spring barley, winter and spring oats and for disease control in winter oilseed rape.



FUNGICIDE

An emulsifiable concentrate formulation containing 125 g/L (12.8% w/w) prothioconazole and 125 g/L (12.8%) tebuconazole

CONTENT: **5 lit. e**

RISK AND SAFETY INFORMATION

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause an allergic skin reaction.
Suspected of damaging the unborn child.
Very toxic to aquatic life with long lasting effects.

Do not get in eyes, on skin or on clothing.
Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.
Collect spillage.

Dispose of contents/container to a licenced hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Contains 2-[2-(1-chlorocyclopropyl)-2-hydroxy-3-phenylpropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione.
May produce an allergic reaction.

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



WARNING

FOR PROFESSIONAL USE ONLY

PCS no. 06446

Registration holder:

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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:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION 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.

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).

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 10m to surface water bodies. Spray must be aimed away from water.

STORAGE AND DISPOSAL

Do not re-use container for any purpose and dispose of safely.

Keep away from food, drink and animal feedingstuffs.

Keep out of reach of children.

RINSE CONTAINER THOROUGHLY by using an inter-rated pressure rinsing device or manually rinsing three times.

Add washings to sprayer at time of filling and dispose of safely.

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.

PROTENDO[®] EXTRA is a mixture of a triazolothione and triazole fungicide recommended for control of a wide range of diseases on winter and spring barley, winter and spring wheat, triticale, winter rye, winter and spring oats and for disease control in winter oilseed rape.

RATE OF USE

Crop	Maximum individual dose	Maximum total dose per season	Latest time of application
Wheat, triticale and winter rye	1.0 litres product per hectare	2.0 litres product per hectare	End of flowering, (GS 69)
Barley and oats	1.0 litres product per hectare	2.0 litres product per hectare	Beginning of flowering, (GS 61)
Oilseed rape (winter and spring)	1.0 litres product per hectare	2.0 litres product per hectare	56 days before harvest

Method of application: Tractor mounted sprayer.

A spray pressure of 2-3 bar is recommended. Apply PROTENDO[®] EXTRA in 200-300 litres per hectare water.

Apply as a medium spray quality.

A minimum of 21 days must be observed between applications to the above crops.

Do not apply by hand held equipment.

DISEASES CONTROL FOR CEREALS

	Wheat	Barley	Oats	Rye
Eyespot (<i>Oculimacula spp.</i>)	R	R	R	R
Septoria Leaf Blotch (<i>Pyrenopeziza graminicola</i>)	MC	-	-	-
Glume Blotch (<i>Stagonospora nodorum</i>)	MC	-	-	-
Powdery Mildew (<i>Blumeria graminis</i>)	MC	C	C	C
Yellow Rust	C	C	-	-
Brown Rust	C	C	-	C
Crown Rust	-	-	C	-
Tan Spot	MC	-	-	-
Fusarium Ear blight	R	MC	-	-
Sooty Moulds	R	R	-	-
Rhynchosporium Leaf Blotch	-	MC	-	C
Net Blotch	-	C	-	-

C = Control MC = Moderate Control R = Resistant

Eyespot (*Oculimacula spp.*)

PROTENDO[®] EXTRA reduces the incidence and severity of eyespot. 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 *Leptosphaeria nodorum*)

Apply before disease is established in the crop. To protect the upper leaves and ear apply PROTENDO® EXTRA at full flag leaf emergence (GS 37) 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 (*Blumeria graminis*)

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

Yellow Rust

Apply PROTENDO® EXTRA at the first signs of disease. PROTENDO® EXTRA controls yellow rust (*Puccinia striiformis*) in wheat. 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

Apply PROTENDO® EXTRA at the first signs of disease. PROTENDO® EXTRA controls brown rust in barley (*Puccinia hordei*), rye (*P. recondita*) and wheat (*P. recondita*). 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 PROTENDO® EXTRA at the first signs of disease. PROTENDO® EXTRA controls crown rust in winter and spring oats. A second application may be made 3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.

Tan Spot (*Pyrenophora tritici-repensis*)

Apply PROTENDO® EXTRA at the first signs of disease in spring/early summer. Where disease pressure remains high application may be repeated.

Ear Disease Complex

Apply PROTENDO® EXTRA 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. Through the reduction of ear blight, PROTENDO® EXTRA effectively reduces the level of the Fusarium mycotoxin deoxynivalenol (DON) in wheat grain. However, where Fusarium levels are high, the reduction achieved may not always be sufficient to ensure that DON levels fall below the statutory limit.

Leaf Blotch (*Rhynchosporium secalis*)

PROTENDO® EXTRA gives high levels of *Rhynchosporium* control. Apply PROTENDO® EXTRA in spring at the first signs of disease. For severe infections a second application may be necessary 3 weeks later.

Net Blotch (*Pyrenophora teres*)

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

WINTER OILSEED RAPE

	Oilseed rape
Light Leaf Spot	MC
Phoma Leaf spot/Stem Canker	C
Sclerotinia stem rot	C
C = Control MC = Moderate Control	

Light Leaf Spot

Apply PROTENDO® EXTRA in autumn/winter (usually late October to early December) protectively. Follow up spray(s) may be required in early spring from the onset of stem elongation, depending on disease development.

Phoma Leaf spot/Stem Canker

Apply PROTENDO® EXTRA in autumn at the first sign of disease. Repeat application in late autumn/winter, if disease symptoms reoccur.

Sclerotinia stem rot (*Sclerotinia sclerotiorum*)

Apply PROTENDO® EXTRA at early to full flower.

CROP SPECIFIC INFORMATION

PROTENDO® EXTRA may be used on all commercial varieties of winter and spring barley, winter and spring wheat, triticale, winter rye, winter and spring oats and winter oilseed rape.

MIXING

Thoroughly shake the pack before use. Add the required quantity of PROTENDO® EXTRA 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 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.

RESISTANCE STRATEGY

Repeated application of PROTENDO® EXTRA alone should not be used on the same crop against a high risk pathogen such as cereal powdery mildew. Tank-mixtures or alternation with fungicides having a different mode of action (e.g. morpholines) have been shown to protect against the development of resistant forms of disease.

CAUTION: The possible development of disease strains resistant to PROTENDO® EXTRA cannot be excluded or predicted. Where such resistant strains occur, PROTENDO® EXTRA is unlikely to give satisfactory control.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

SPECIMEN -
2019 to date