

FUNGICIDE

Protendo® 300 EC

Contents: 5L e



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

An emulsifiable concentrate containing 300 g/L prothioconazole (28.04% w/w).

MAPP No.: 19612

GROUP	3	FUNGICIDE
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**FOR PROFESSIONAL USE ONLY
PROTECT FROM FROST**

Production date / Batch number: see packaging

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



For warehouse purpose only:



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SAFETY PRECAUTIONS

OPERATOR PROTECTION

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

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

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

- WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.
- IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.
- WASH HANDS before eating and drinking/smoking/after work.
- WHEN USING DO NOT EAT, DRINK OR SMOKE.
- IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice immediately (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 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 FEEDING STUFFS
- KEEP OUT OF REACH OF CHILDREN
- KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place/under lock and key/away from damp/sources of heat.
- RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add the washings to the sprayer at the 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.

GENERAL INFORMATION

PROTENDO® 300 EC is an emulsifiable concentrate formulation containing 300 g/L prothioconazole. It is a triazolinthione fungicide for the control of stem-base, foliar and ear disease in winter and spring wheat, winter and spring rye, winter and spring barley, winter and spring triticale and for disease control in winter and spring oilseed rape.

DISEASES CONTROLLED

Wheat

Stripe rust (*Puccinia striiformis*), Septoria leaf blotch (*Zymoseptoria tritici*), Glume blotch (*Parastagonospora nodorum*), Brown rust (*Puccinia recondita*), Tan spot (*Pyrenophora tritici-repentis*)*, Powdery mildew (*Blumeria graminis*), *Fusarium* ear blight.

Barley

Brown rust (*Puccinia hordei*), Net blotch (*Pyrenophora teres*), Leaf blotch (*Rhynchosporium secalis*), Powdery mildew (*Blumeria graminis*), *Fusarium* ear blight.

Rye

Leaf blotch (*Rhynchosporium secalis*), Brown rust (*Puccinia recondita*), Powdery mildew (*Blumeria graminis*).

Triticale

Leaf blotch (*Rhynchosporium secalis*), Glume blotch (*Parastagonospora nodorum*), Stripe rust (*Puccinia striiformis*), Septoria leaf blotch (*Zymoseptoria tritici*), Powdery mildew (*Blumeria graminis*), *Fusarium* ear blight.

Winter oilseed rape

Stem rot (*Sclerotinia* sp.), Phoma leaf spot (*Plenodomus lingam*).

*PROTENDO® 300 EC will provide moderate control of these diseases.

CROP SPECIFIC INFORMATION

Winter and spring cereals:

Apply PROTENDO® 300 EC at 0.65 L product/ha in 200-400 L water/ha. Apply as a MEDIUM spray quality (as defined by BCPC). Maximum total dose per crop is 1.3 L/ha.

Septoria leaf blotch (*Zymoseptoria tritici*) and Glume Blotch (*Parastagonospora nodorum*):

Apply before disease is established in the crop. To protect the upper leaves and ear apply PROTENDO® 300 EC from BBCH 29 (End of tillering) up to beginning of flowering (BBCH 61). Where disease pressure remains high application may be repeated.

Stripe Rust (*Puccinia striiformis*):

Apply PROTENDO® 300 EC at the latest at the first signs of disease (BBCH 29-61). 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 recondita*, *Puccinia hordei*):

Apply PROTENDO® 300 EC at the latest at the first signs of disease (BBCH 29-61). 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*), Powdery mildew (*Blumeria graminis*):

Apply PROTENDO® 300 EC at the latest at the first signs of disease in spring/early summer (BBCH 29-61). Where disease pressure remains high application may be repeated.

Fusarium ear blight:

Apply PROTENDO® 300 EC soon after ear emergence until

the end of flowering (BBCH 61-69) for moderate control of *Fusarium* ear blight without exceeding the maximum total dose per crop. Control of ear diseases can result in cleaner, brighter ears. Through the reduction of ear blight, PROTENDO® 300 EC 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.

Net Blotch (*Pyrenophora teres*):

Apply PROTENDO® 300 EC at the latest at the first signs of disease in spring/early summer (BBCH 29-61). For severe infections, a second application 2-3 weeks later will give most effective control when conditions remain favourable for disease development.

Leaf Blotch (*Rhynchosporium secalis*):

Apply PROTENDO® 300 EC in spring at the latest at the first signs of disease (BBCH 29-61). For severe infections a second application may be necessary 2-3 weeks later.

Winter oilseed rape:

Apply PROTENDO® 300 EC at 0.6 L product/ha in 200-400 L water/ha. Apply as a MEDIUM spray quality (as defined by BCPC). Maximum total dose per crop is 1.2 L/ha.

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.

Phoma leaf spot (*Plenodomus lingam*):

Apply PROTENDO® 300 EC in autumn or spring at the latest at the first sign of disease (BBCH 16-59). Repeat application in spring if disease symptoms reoccur after first application in autumn.

Stem rot (*Sclerotinia* sp.):

Apply PROTENDO® 300 EC at early to full flowering (BBCH 61-69) without exceeding the maximum total dose per crop.

Spring oilseed rape (QUALIFIED RECOMMENDATION):

PROTENDO® 300 EC can also be used on varieties of spring oilseed rape but effectiveness and crop safety has not been fully established.

Conditions of use for spring oilseed rape described in the IMPORTANT INFORMATION box must be followed.

MIXING AND SPRAYING

Thoroughly shake the pack before use. Add the required quantity of PROTENDO® 300 EC 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. A spray pressure of 2-3 bar is recommended. 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. Thoroughly wash all spray and measuring equipment with water immediately after use.

RESISTANCE

Repeated application of PROTENDO® 300 EC alone should not be used on the same crop against a high risk pathogen. 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. The possible development of disease strains resistant to PROTENDO® 300 EC cannot be excluded or predicted. Where such resistant strains occur, PROTENDO® 300 EC is unlikely to give satisfactory control. To avoid development of resistance apply product protectively in response to disease forecasts.

PROTENDO® 300 EC contains a DMI fungicide (FRAC group 3). Resistance to some DMI fungicides has been identified in Septoria leaf blotch which may seriously affect the performance of some products. Never use DMIs alone or repeatedly for powdery mildew control. Always mix with a non DMI fungicide at effective doses to ensure a high level of disease control. Alternate or mix fungicides with different modes of action in repeat spray programmes. Include another mode of action with eradicant activity if mildew already active.

For further advice on resistance management in DMIs,

contact your agronomist or specialist advisor, and visit the Fungicide Resistance Action Group (FRAG)-UK website.

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.

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



WEBLINK to specific data sheet
on manufacturer's website:

www.belchim.co.uk/pdf/MSDS/Protendo300EC_MSDS.pdf

Alternatively, contact your supplier.

IMPORTANT INFORMATION - FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

Crops/situations:	Max. individual dose: (L product / ha)	Maximum total dose: (L product / ha / crop)	Latest time of application:
Barley (spring), barley (winter), rye (spring), rye (winter), triticale (spring), triticale (winter), wheat (spring), wheat (winter)	0.65	1.3	End of flowering (BBCH 69)
Oilseed rape (winter)	0.6	1.2	End of flowering (BBCH 69)
Oilseed rape (spring) ¹	0.5	1.0	End of flowering (BBCH 69)

¹ QUALIFIED RECOMMENDATION Effectiveness and crop safety has not been fully established. For all qualified recommendations users are advised to test a small area first to establish crop safety

Other specific restrictions:

- This product must not be applied via hand-held equipment.
- Non-returnable containers must not be re-used for any purpose

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.

DANGER



PROTENDO® 300 EC

An emulsifiable concentrate containing 300 g/L prothioconazole (28.04 % w/w)

- H302 Harmful if swallowed.**
- H315 Causes skin irritation.**
- H318 Causes serious eye damage.**
- H411 Toxic to aquatic life with long lasting effects.**

- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves / protective clothing / eye protection / face protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P330 Rinse mouth.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P391 Collect spillage.
- P501 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.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.