

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 GLOVES AND EYE PROTECTION (GOGGLES) when handling concentrate.
WEAR SUITABLE PROTECTIVE GLOVES AND EYE PROTECTION (GOGGLES) when applying the product.
WEAR SUITABLE PROTECTIVE GLOVES AND EYE PROTECTION (GOGGLES) when handling contaminated surfaces.
WHEN USING DO NOT EAT, DRINK OR SMOKE.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.
WASH HANDS/ EXPOSED SKIN before eating and drinking/ smoking/ after work.
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 of 10m to surface water bodies. Direct spray away from water.

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.
RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of container safely.
DO NOT RE-USE CONTAINER for any purpose.
Store in a suitable pesticide store, keep dry and protect from frost.



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Verben™

FUNGICIDE

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GROUP	13	FUNGICIDES
GROUP	3	FUNGICIDES

Product Registration Number: PCS 06744

A selective fungicide for the control of foliar diseases in wheat, barley, rye, triticale and oats.

An emulsifiable concentrate containing 50 g/litre proquinazid and 200 g/litre prothioconazole.

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET
PROTECT FROM FROST**

Authorisation Holder:

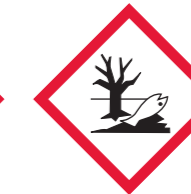
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National Poison Centre (Dublin): 01 8092166

NET CONTENTS : 5 LITRES e



SAFETY INFORMATION

Verben – Contains 50 g/litre proquinazid and 200 g/litre prothioconazole
UFI: T25C-J0YQ-H006-HHY3



Warning

Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing cancer
Very toxic to aquatic life with long lasting effects
Obtain special instructions before use.
Avoid breathing mist or vapours.
Wear protective gloves / clothing / eye / face protection.
If exposed or concerned seek medical advice.
If eye irritation persists seek medical attention.
Collect spillage.
Dispose of contents / container to a licensed hazardous- waste disposal contractor or collection site except for empty clean triple rinsed 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 06744

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

Crops	Maximum individual dose (product/hectare/crop)	Maximum number of treatments per crop	Latest time of application	Aquatic buffer zone (metres)
Wheat and triticale	1 litre	1	Up to 50% of anthers mature (GS 65)	10
Barley, rye and oats	1 litre	1	Up to first awns visible (GS 49)	10

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.

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.

RESTRICTIONS / WARNINGS

Avoid spray drift on to neighbouring crops. Verben should not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, nutrient or lime deficiency or other factors reducing crop growth.

After spraying, wash out sprayer thoroughly according to manufacturer's guideline and dispose of washings and clean container.

DISEASE CONTROL

VERBEN is a protectant and curative fungicide with translaminar properties for the control for the control of fungal diseases of wheat, barley, rye, triticale and oats. At the recommended rate of application, Verben offers the following level of control:

Pest Species	Wheat	Barley	Triticale	Rye	Oats
<i>Septoria</i> leaf blotch	MC	-	MC	-	-
<i>Parastagonospora nodorum</i>	MC	-	MC	-	-
Yellow Rust	C	C	C	-	-
Brown rust	MC	C	C	C	-
Powdery Mildew	C	C	C	C	C
Tan spot	MC	-	-	-	-
Leaf Scald (<i>Rhynchosporium</i>)	-	C	-	C	-
Net blotch	-	C	-	-	-
Crown Rust	-	-	-	-	C

Key
C = control
MC = moderate control

RESISTANCE MANAGEMENT

VERBEN® contains prothioconazole and proquinazid.

Prothioconazole is a triazolothione fungicide. It belongs to the DMI (DeMethylation Inhibitors) group and is SBI (Sterol Biosynthesis Inhibitors) Class I. Their action prevents completion of the infection process by sterol biosynthesis in membranes. The Fungicide Resistance Action Committee (FRAC) has assigned prothioconazole to resistance group 3 with a medium risk of resistance development.

Proquinazid is a Quinazolinone fungicide belonging to the Azanaphthalenes group and its target site is signal transduction inhibiting the development of the appressorial germ tube which is necessary for the infection of host plants. The Fungicide Resistance Action Committee (FRAC) has assigned proquinazid to resistance group 13 with a medium risk of resistance development.

VERBEN offers an effective non-cross-resistant solution for disease control in cereals and provides a good resistance management strategy due to different mode of action of both active ingredients.

Use VERBEN as part of an Integrated Crop Management Strategy (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action.

For further advice on resistance management contact your agronomist or advisor and consult the Fungicide Resistance Action Committee (FRAC) website for additional information.

Only apply this product preventatively.

Repeated application of DMI fungicides alone should not be used on the same crop in one season against risky pathogens (e.g. cereal powdery mildews, barley net blotch, scald) in areas of high disease pressure for that particular pathogen.

Reduced rates of DMI's can contribute to accelerate the shift to less sensitive populations. It is critical to use effective rates of DMI's in order to ensure robust disease control and effective resistance management. DMI's must provide effective disease control and be used at manufacturers recommended rates.

When used in mixture recommended effective rates of the SBI must be maintained. Split and reduced rate programmes, using multiple repeated applications at dose rates below manufacturer's recommendations, provide continuous selection pressure and accelerate the development of resistant populations, and therefore must not be used.

To ensure good performance and particularly resistance management in situations of even low disease pressure it is essential to adhere to dosages and spray timings as recommended by manufacturers. Curative applications should be avoided. Application timing must be appropriate to all mix partners characteristics. Mixing with a non-cross resistant fungicide at effective dose rates contributes to more disease control and resistance management.

Apply a maximum of 2 Group 13 fungicides (e.g. proquinazid) containing sprays per crop solo or in mixture (coformulations or tank mixes) with effective mixture partners from different cross-resistance groups.

CROPS

VERBEN may be used on all commercial varieties of winter and spring wheat, barley, rye, triticale and oats.

Time of Application

Apply VERBEN from growth stage GS 25 (main shoot and five tillers). A maximum of one application can be made up to 50%

of anthers mature (GS 65) for wheat and triticale and from GS 25 up to first awns visible (GS 49) for barley, rye and oats. Best results will be achieved before disease becomes established in the crop.

Rate of Application

Apply 1 litre of VERBEN in 150 to 400 litres of water per hectare, using spray equipment to give good even coverage of the crop. The higher volumes are recommended when the crop is dense.

Following Crops

No following crop restrictions.

Mixing and Spraying

Half fill the spray tank with clean water and start the agitation. SHAKE THE CONTAINER WELL before use and pour in the required amount of product. Rinse any empty containers thoroughly and add rinsings to the spray tank. Add the remainder of the water and continue agitation until spraying is completed. Spray solution MUST be used on the day of mixing and must NOT be left overnight.

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.

When tank mixes are to be used, each product should be added separately to the spray tank, taking due note of any instructions given as to the order of mixing.

COMPATIBILITY

Products should only be tank-mixed if each product can be applied with the label recommendations for its use. For details on compatibilities contact your distributor or Corteva technical hotline on +44 (0) 800 689 8899 or ukhotline@corteva.com

TRADEMARK ACKNOWLEDGEMENTS

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CORTEVA AGRISCIENCE 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. For further information please contact Corteva Agriscience.

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



<https://www.corteva.ie/content/dam/dpagco/corteva/eu/ie/en/files/sds/VERBEN-IRL-SDS.pdf>

Alternatively contact your supplier