



VERTISAN®

MAPP 17485

PCS No 05303

A emulsifiable concentrate containing 200 g/L penthiopyrad, a carboxamide fungicide, for disease control in wheat, barley, rye and triticale and oats

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

SAFETY PRECAUTIONS

Operator protection

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

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

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

(UK only) 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

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.

WASH SPLASHES from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before eating, drinking and smoking and after work.

Environmental protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used containers. Do not clean application equipment near surface water/ Avoid contamination via drains from farmyards and roads.

(UK only) 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.

(Ireland only) To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

Version dated 17th March 2017

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 safely.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

Approval holder and marketing company:

Du Pont (UK) Limited, Crop Protection Products

4th Floor, Kings Court, London Road, Stevenage, Herts SG1 2NG

Tel: +44 (0)1438 734450 or enquiry.agproducts@dupont.com

Emergency Tel: 0870 820 0418 or 01 901 4670 (Ireland)

National Poisons Service Tel: 111 (England and Wales), 08454 24 24 24 (Scotland)

National Poisons Information Service Tel: (01) 837 9964 or (01)809 2166

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Contents: 5 litres e

Batch No XXX

Manufactured in the E.U

FOR PROFESSIONAL USE ONLY

RISK AND SAFETY INFORMATION

Vertisan

Fungicide containing 200g/l penthiopyrad

WARNING



Causes serious eye irritation

May cause an allergic skin reaction

Very toxic to aquatic life

Toxic to aquatic life with long lasting effects

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

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

If skin irritation or a rash occurs: Get medical advice / attention

Wash hands thoroughly after handling

Avoid breathing vapours or spray

Contaminated work clothing should not be allowed out of the workplace

Collect spillage.

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

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

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IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE.

Crops	Max Individual dose	Max total dose (IRL only)	Max number of treatments	Latest time of application
Wheat, barley, oats rye, triticale	1.5 L/ha	2.5 L/ha*	2 per crop*	GS 69 (end of flowering)

Other specific restrictions:

To reduce the risk of resistance developing in target diseases a maximum of 2 foliar applications of product(s) containing SDHIs can be applied to any cereal crop.

Apply SDHI fungicides always in mixtures. The mixture partner

- should provide satisfactory disease control when used alone on the target disease
- must have a different mode of action

In order to prevent contamination of groundwater, the second application to all crops must be made after GS39

As the product is a skin sensitizer a minimum water volume of 100L of water per 1L product must be used.

A maximum total dose of not more than 500g penthiopyrad /hectare may be applied in a two year period on the same field.

* Only 1 application at the maximum individual dose is permitted (IRL only)

Method of application: Tractor mounted sprayer, trailed sprayer

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.

-----*(Start of label leaflet)*-----

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

- VERTISAN 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.
- Avoid application in either frosty or hot, sunny weather conditions.
- Up to 2 treatments may be applied per crop.
- Only apply VERTISAN in tank-mixture with other fungicides (see 'Dose')

Disease Control

VERTISAN contains penthiopyrad, a broad-spectrum fungicide from the carboxamide group. Carboxamides are classified as succinate dehydrogenase inhibitor (SDHI) by the Fungicide Resistance Action Committee (FRAC). Penthiopyrad inhibits fungal respiration and should be used in mixture with fungicides with other modes of action. VERTISAN shows good crop safety, disease control and maintenance of green leaf area which results in significant yield benefits. VERTISAN has activity on the following diseases and is best used as a protectant treatment or in the earliest stages of disease development.

Disease activity

Crop	Disease	Level of control	
		UK	Ireland
Wheat	Septoria leaf blotch	C	MC
	Yellow rust	MC	MC
	Tan spot	R	R
	Brown rust	-	C
Barley	Rhynchosporium	MC	R
	Net blotch	C	MC
	Ramularia	C/MC*	MC/ R#
	Brown Rust	C	C
Rye	Rhynchosporium	MC	R
	Brown Rust	-	C
Triticale	<i>Septoria leaf blotch</i>	MC	MC
	Brown rust	-	C
	Yellow rust	MC	MC
	Rhynchosporium	-	R
Oats	Crown rust	C	C

Key: C = Control, MC = Moderate control, R = Reduction

* Vertisan offers control of *Ramularia* in spring barley, moderate control in winter barley (UK only)

Vertisan offers moderate control of *Ramularia* in winter barley, reduction in spring barley (Ireland only)

Resistance

VERTISAN contains penthiopyrad, a member of the SDHI cross resistance group of fungicides. VERTISAN should be used preventatively or at the early stage of disease development. Use VERTISAN as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action. Disease control may be reduced if strains of pathogens less sensitive to penthiopyrad develop.

When fungicides with the same mode of action are used repeatedly over several years in the same field, naturally occurring less sensitive strains may survive, propagate and become dominant in that field. A pathogen is considered resistant to a fungicide if it survives a correctly applied treatment at a recommended dose and timing, under normal weather conditions.

VERTISAN must always be tank mixed with another fungicides(s) from different cross-resistance group(s) / different mode(s) of action, which when used alone, gives effective control of the same target disease(s). Products should be applied at robust rates. In any tank mix the SDHI should be applied in a balanced mixture. VERTISAN should be used in accordance with the instructions for use for the target diseases at the specific growth stages indicated.

Do not apply more than two foliar applications of SDHI containing products to any cereal crop. Mixtures of two or more SDHI fungicides do not provide an anti-resistance strategy. Each application of such a mixture counts as one SDHI application.

For further advice on resistance management users should contact your agronomist or specialist advisor, refer to current FRAC guidelines for SDHI compounds and visit the TEAGASC or FRAG-UK website. Isolates of *Septoria* leaf blotch with reduced sensitivity to SDHI fungicides have been detected.

Volume and Application

Apply in 200 - 300 litres/ha of water using spraying equipment to give good even coverage of the crop. The higher volumes are recommended when the crop is dense. A spray pressure of 2 – 3 Bar is recommended.

Mixing

Ensure that the sprayer is clean and correctly set to give an even application at the required volume. Half-fill the spray tank with clean water and start agitation. Shake the container and add the required amount of VERTISAN to the sprayer using a filling device (e.g. induction bowl or closed transfer unit) or by direct addition to the sprayer tank. Wash out containers thoroughly, preferably using an integrated pressure rinsing device, or manually rinse three times. Add washings to the sprayer at the time of filling. Complete filling to the required volume and continue to agitate throughout the spraying operation. Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight). (Ireland only) Follow the good practice guide for empty pesticide containers.

Crops

VERTISAN can be used on all winter and spring crops of wheat, barley, rye and triticale and oats. It may also be applied to barley undersown with grass.(UK only) Apply VERTISAN under good growing conditions with adequate soil moisture. Avoid poor growing conditions which may give less reliable results.

Dose

Apply VERTISAN at **1.5 litre per hectare**. VERTISAN must always be used in mixture with another product, recommended for control of the same target disease that contains a fungicide from a different cross resistance group and is applied at a dose that will give robust control.

Timing

Best results will be achieved from applications made as a protectant treatment or in the earliest stages of disease development. VERTISAN may be applied from the beginning of stem elongation (GS 30) up to the end of flowering (GS 69) on barley, wheat, oats, rye and triticale. Up to a maximum of 2 treatments may be made. If, following a disease risk

assessment or the use of appropriate decision support systems, a second treatment is required, this may be applied after 21 days.

Compatibility

Products should only be tank-mixed if each product can be applied within the label recommendations for its use. For further information contact your DuPont distributor.

Spray tank clean-out

Thoroughly wash out sprayer according to manufacturer's guidelines and dispose of washings and clean containers according to DEFRA Code of Practice (UK only) and local water authority guidelines.

NOTICE TO BUYER

All goods supplied by us are of a high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, all conditions and warranties statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use

All trademarks duly acknowledged.

Safety Data Sheet

[Insert QR code and wording]

To access the Safety Data Sheet for this product scan the code, visit www.cropprotection.dupont.co.uk or alternatively contact your supplier