



# DEACON

MAPP 19003

An oil in water emulsion containing 200 g/l (20.0% w/w) tebuconazole.

A broad-spectrum fungicide for the control of a wide range of diseases in wheat, barley, rye, oats, oilseed rape and field beans.

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

Pack size: 5L

Batch No.: XXXXX

## **Authorisation Holder & Marketing Company**

Nufarm UK Limited  
Wyke Lane, Wyke, Bradford, West Yorkshire,  
BD12 9EJ  
United Kingdom

Technical Helpline telephone number 01274 694714  
24-hour emergency telephone number 01274 696603

SHAKE WELL BEFORE USE

PROTECT FROM FROST



## WARNING

Causes serious eye irritation  
Suspected of damaging the unborn child.  
Very toxic to aquatic life with long lasting effects.

Keep out of reach of children.

Obtain special instructions before use.

Wash hands thoroughly after handling.

Wear eye protection/protective gloves/face protection.

IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so - continue rinsing.

Collect spillage.

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.

Contains 2-ethylhexyl-S-lactate and rosin. May produce an allergic reaction.

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



**IMPORTANT INFORMATION**

For use only as a professional fungicide

Crop	Maximum Individual Dose (L product/ha)	Maximum Total Dose (L product/ha/crop)	Latest Time of Application
Wheat, barley, oats and rye	1.25	2.5	Before grain watery ripe stage (BBCH 69)
Oilseed rape	1.25	1.25	Up to 30% of pods reached final size (BBCH 73) and 56 days before harvest
Field beans	1.0	1.0	35 days before harvest

*Other Specific Restrictions:*

1. Non-returnable containers must not be re-used for any purpose.
2. Applications must only be made in the spring.
3. For use on cereals a maximum individual dose of 1.25 L/ha applies after BBCH 30 and before early boot stage (BBCH 39). A further maximum individual dose of 1.25 L/ha cannot be applied until after BBCH 40 stage.
4. For use on oilseed rape a single application must only be made after BBCH 20.
5. A minimum interval of 14 days applies between applications.

**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.**

## 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 FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR 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.

TAKE OFF IMMEDIATELY all contaminated clothing.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially insides of gloves.

DO NOT BREATHE SPRAY.

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

WHEN USING DO NOT EAT, DRINK OR SMOKE.

### 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 waterbody, unless a Local Environmental Risk Assessment for Pesticides permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing waterbody. Aim spray away from water.

This product qualifies for inclusion within the Local Environmental 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 HSE's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

### Storage and Disposal

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.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

## 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

DEACON™ is a systemic fungicide. It is rapidly absorbed into the vegetative parts of the plant and then translocated through the plant. It controls a wide range of diseases in a wide range of crops. For best disease control, apply as soon as disease appears, before spread to new growth.

Application to established diseases may be less effective.

### RESTRICTIONS

After application to wheat, some transient leaf speckling may occur, and on oats some leaf reddening or scorch may be observed. These are normally outgrown and do not affect yield.

CONSULT PROCESSOR BEFORE USE ON CROPS GROWN FOR PROCESSING.

### DISEASES CONTROLLED

#### **Wheat**

Brown rust

Yellow rust

Powdery mildew (moderate control)

*Septoria nodurum* (glume blotch)

Ear diseases

#### **Barley**

Brown rust

Yellow rust

Powdery mildew (moderate control)

*Rhynchosporium* (moderate control)

### **Oats**

Crown rust

Powdery mildew

### **Rye**

Brown rust

Yellow rust

Powdery mildew

*Rhynchosporium* (moderate control)

### **Oilseed rape**

*Alternaria*

Light leaf spot

*Sclerotinia*

### **Field beans**

Chocolate spot (*Botrytis cinerea*) – moderate control.

## **RESISTANCE MANAGEMENT**

DEACON contains tebuconazole, a DMI fungicide (mode of action code G1 and classified as FRAC code 3).

To avoid resistance, do not apply repeated applications of DEACON alone on the same crop against the same disease. In such situations, use an appropriate tank-mixture or alternate with another fungicide with a different mode of action. Where resistance occurs, DEACON may not give adequate disease control. Consult the latest advice from FRAG-UK and FRAC regarding disease resistance strategies.

DEACON contains a DMI fungicide. Resistance to some DMI fungicides has been identified in *Septoria* leaf blotch (*Myzospaerella graminicola*) which may seriously affect the performance of some products. DEACON is not recommended for the control of this disease. For further advice on resistance management in DMIs, contact your agronomist or specialist advisor, and visit the Fungicide Resistance Action Group FRAG-UK website.

The efficacy of this product may be affected if strains of disease pathogens resistant or less sensitive occur at any time. As such occurrences cannot be predicted no responsibility can be accepted for the results obtained.

Strains of wheat powdery mildew with decreased sensitivity to triazoles are common in the UK. Where these occur or develop, DEACON may not give satisfactory control.

Strains of light leaf spot resistant to azole fungicides are known to exist. To avoid development of resistance, apply product protectively in response to disease forecasts. Where possible, when light leaf spot is present, use a fungicide with an alternative mode of action or mixes containing an alternative mode of action when targeting other diseases such as *Sclerotinia* at mid-flowering.

For current advice on resistance management, contact your agronomist or specialist advisor, and visit the FRAG-UK website.

## CROP SPECIFIC INFORMATION

### WHEAT, BARLEY, OATS AND RYE

Application Rate: 1.25 L/ha

Application Timing: Only one application should be applied to cereals (wheat, barley, oats and rye) before BBCH 40 (in the application window BBCH 30-39). If a second application is required before BBCH 40, an alternative product (not containing tebuconazole) should be used.

Ear disease complex on wheat	Apply soon after ear emergence to give reduction of <i>Botrytis</i> , <i>Fusarium</i> ear blight and sooty moulds.
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Yellow and brown rust on wheat, barley and rye; powdery mildew and crown rust in oats; <i>Rhynchosporium</i> in barley and rye and net blotch in barley	Apply at first sign of disease, this may be at any time from beginning of stem elongation (GS 30) onwards. A 2nd application may be required if disease pressure remains high. There should be a minimum interval of 2 weeks. The 2nd application should not be applied before early boot stage: flag leaf sheath
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extending (GS 41).

Powdery mildew in wheat,  
barley and rye

Apply at first sign of disease, this may be at any time from beginning of stem elongation (GS 30) onwards. A 2nd application may be required if disease pressure remains high. There should be a minimum interval of 2 weeks. The 2nd application should not be applied before early boot stage: flag leaf sheath extending (GS 41). Please refer to resistance section for more details.

Water Volume: 160 – 200 L water/ha.

#### OILSEED RAPE (spring application only)

Application Rate: 1.25 L/ha

Application Timing:

Light leaf spot

Apply 1.25 L/ha as disease appears in the spring, from the onset of stem extension. This application will also give some reduction of ringspot if present at time of application.

*Alternaria* spp (dark leaf  
and pod spot)

Apply 1.25 L/ha as disease appears i.e. when black pin-head spots first appear on the pods.

*Sclerotinia* stem rot

Apply 1.25 L/ha at early to full flower. Will give some reduction of *Sclerotinia* stem rot.

Water Volume: 160 – 200 L water/ha.

## FIELD BEANS

Application Rate: 1.0 L/ha

Application Timing:

Chocolate spot (*Botrytis cinerea*)

Apply as disease appears from early flowering. A second spray with an alternative product may be required 3-4 weeks later if disease pressure remains high.

Water Volume: 160 – 120 L water/ha

If disease pressure remains high, application of an alternative effective product may be required to maintain control and to comply with the timing restrictions necessary for DEACON.

## WATER VOLUME

Apply in 160-200 L water/ha. In cereals, in denser crops, a water volume of 300 L/ha may be required. For oilseed rape, a water volume of 400 L/ha may be required in dense crops.

Apply as a medium spray as defined by BCPC.

## FOLLOWING CROPS

There are no restrictions on following crops.

## MIXING

Before spraying it is important to check all hoses, filters and nozzles, and to ensure that the sprayer is clean and correctly calibrated to give an accurate application at the correct volume. Half-fill sprayer tank with clean water. Add the required amount of DEACON to the water and commence agitation. On emptying the container, 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. Add the remainder of the water whilst continuing to agitate the mixture until spraying is complete. Maintain agitation during the mixing process and continue until the spraying is complete. Do not leave in spray tank for long periods without using.

Crops should not be re-entered until spray residues are dry.

## COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations 2011. It provides additional advice on use of the product

### ACKNOWLEDGMENTS

DEACON is a registered trademark.

### CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but (as we cannot exercise any control over their mixing or use) all conditions and warranties, statutory or otherwise, as to the quality and fitness for any purpose of our goods are excluded, except in so far as such exclusion is prevented by law, and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack. Use in any other circumstances is entirely at users risk.