

Brutus®



MAPP 14353

An emulsifiable concentrate containing 37.5 g/l epoxiconazole and 27.5 g/l metconazole. A fungicide for use in winter and spring wheat, durum wheat, winter and spring barley, rye and triticale. The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

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 when handling the concentrate or contaminated surfaces.

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

WASH HANDS AND EXPOSED SKIN before meals and after work.

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 requirement.

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 1m 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

DO NOT RE-USE CONTAINER for any purpose. **STORE IN ORIGINAL CONTAINER** tightly closed, in a safe place.

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.



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UN 3082

Packing group III

Environmentally hazardous substance, liquid, N.O.S.,
(contains epoxiconazole and metconazole)
Marine pollutant

This label is compliant with the CPA Voluntary Initiative Guidance

Supplied by:
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Crop Protection
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81098960GB1085



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An emulsifiable concentrate containing
37.5 g/l epoxiconazole and 27.5 g/l metconazole.

DANGER:
MAY CAUSE AN ALLERGIC SKIN REACTION.
SUSPECTED OF CAUSING CANCER.
MAY DAMAGE THE UNBORN CHILD.
SUSPECTED OF DAMAGING FERTILITY
VERY TOXIC TO AQUATIC LIFE WITH LONG
LASTING EFFECTS.

WEAR PROTECTIVE GLOVES/CLOTHING.
AVOID BREATHING MIST.
IF EXPOSED OR CONCERNED: CALL A POISON
CENTRE
OR DOCTOR/PHYSICIAN.
STORE LOCKED UP.
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.

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



This product is approved under the Plant Protection Product Regulations

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE, as directed below:

Crops	Maximum individual dose	Maximum total dose	Latest time of application
Wheat (winter), Wheat (spring), Wheat (durum), Rye, Triticale	3.0 litres product per hectare	6.0 litres product per hectare	GS 69 (end of flowering)
Barley (winter) Barley (spring)	3.0 litres product per hectare	6.0 litres product per hectare	GS 59 (end of ear emergence)

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.

BRUTUS is a broad spectrum systemic fungicide with protectant and curative properties for use in winter and spring wheat, durum wheat, winter and spring barley, rye and triticale.

1. Restrictions/Warnings

This product may cause damage to broad-leaved plant species.

Avoid spray drift onto neighbouring crops.

Wash equipment thoroughly after use.

When applied to barley intended for malting, refer to the latest timing restrictions for epoxiconazole given by the British Beer and Pub Association.

2. Disease Control

BRUTUS is a systemic fungicide with protectant and curative properties for the control of a range of diseases in winter and spring wheat, durum wheat, winter and spring barley, rye and triticale as summarised below:

Brutus offers prolonged persistence of disease control leading to increased yield.

2.1 Disease susceptibility

	Winter wheat	Spring wheat	Winter barley	Spring barley	Durum wheat	Rye	Triticale
Powdery mildew	MC	MC	MC	MC	MC	MC	MC
<i>Septoria tritici</i>	C	C	-	-	C	-	C
<i>Septoria nodorum</i>	C	C	-	-	C	-	C
Yellow rust	C	C	C	C	C	C	C
Brown rust	C	C	C	C	C	C	C
Tan spot	MC	MC	-	-	MC	-	-
Net blotch	-	-	C	C	-	-	-
<i>Rhynchosporium</i>	-	-	C	C	-	MC	-
<i>Ramularia</i>	-	-	MC	MC	-	-	-
Eyespot	R	-	R	-	R	R	R
<i>Fusarium</i> ear blight (1)	MC#	MC#	-	-	MC#	-	MC#
Sooty moulds (<i>Cladosporium</i> , <i>Botrytis</i>)	MC	MC	-	-	MC	-	-

(1) Application of BRUTUS to ears of wheat and triticale can lead to reduction of the levels of the mycotoxin deoxynivalenol (DON) associated with *Fusarium* ear blight infection, but this level of effect may not necessarily lead to reduction of DON below the statutory limit in wheat and triticale grain.

When applied at 3 litres per hectare BRUTUS will achieve Moderate Control of *Fusarium* ear





blight. BRUTUS can also be used at 2 litres per hectare for Good Reduction of this disease.

C = Control
MC = Moderate control
R = Reduction

2.2 Resistance management

Strains of certain diseases with decreased sensitivity to triazole fungicides are known to exist in the UK. Where these occur or develop, BRUTUS may not give satisfactory control.

BRUTUS contains the DMI fungicides epoxiconazole and metconazole. Resistance to some DMI fungicides has been identified in Septoria leaf blotch (*Mycosphaerella graminicola*) which may seriously affect the performance of some products. For further advice on resistance management with DMIs contact your agronomist or specialist advisor, and visit the FRAG-UK website.

A strategy for managing resistance should be adopted. Guidelines have been produced by the Fungicide Resistance Action Committee (FRAC) and copies are available from HGCA, CPA, your distributor, crop adviser or product manufacturer.

3. Crop specific information

3.1 Crops

BRUTUS may be used on all varieties of winter and spring wheat, durum wheat, winter and spring barley, rye and triticale.

3.2 Time of application

Apply BRUTUS at the start of disease attack. Applications in wheat, rye and triticale can be made up to the end of flowering (GS 69). Applications in barley can be made up to the end of ear emergence (GS 59).

For optimum effect against eyespot with BRUTUS apply between the leaf sheaths erect and second node detectable stages of the crop.

For protection against Fusarium ear blight and sooty moulds on the ears of winter and spring wheat, durum wheat and triticale, apply BRUTUS during ear emergence.

3.3 Rate of application

Apply 3 litres of BRUTUS in 150 to 300 litres of water per hectare.

Brutus may be applied at 3 litres per hectare in 100 litres water per hectare although efficacy at this reduced volume has not been evaluated. Therefore application at 100 litres water per hectare is at user's risk with regard to biological efficacy.

When applied at 3 litres per hectare BRUTUS will achieve Moderate Control of Fusarium ear blight. BRUTUS can also be used at 2 litres per hectare for Good Reduction of this disease.

4. Following crops

After treating a cereal crop with Brutus, oilseed rape, cereals, sugar beet, linseed, maize, clover, beans, peas, carrots, potatoes, lettuce, cabbage, sunflower, ryegrass and onions may be sown as the following crop. The effect of Brutus on other crops has not been assessed.





5. Mixing and Spraying

5.1 Mixing

Never prepare more spray solution than is required.

Fill the tank half full with water and start the agitation. To ensure thorough mixing of the product, invert the container several times before opening. Add the required quantity of BRUTUS to the spray tank while re-circulating. Fill up the tank with water and continue agitation until spraying is completed.

When tank mixes are to be used, take due note of any instructions given as to the order of mixing. Each product should be added separately to the spray tank and fully dispersed before the addition of any further product(s). All tank mixes should be used immediately after mixing.

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.

5.2 Application

Apply as a MEDIUM spray as defined by BCPC

5.3 Sprayer cleaning

After spraying, thoroughly clean and flush out application machinery with a minimum of three rinses.

The following does not form part of the product label under the Plant Protection Products Regulations.

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, 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; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.





Additional Product Safety Information

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has „off-label“ approval or is otherwise permitted under the Plant Protection Products Regulations.

The information on this label is based on the best available information including data from test results

Safety data sheet

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



http://www.agricentre.basf.co.uk/go/Brutus_sds

Alternatively, contact your supplier.



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