



Kingdom[®]



MAPP 15240

An Oil dispersion containing 140 g/litre (13.4% w/w) boscalid and 50 g/litre (4.8% w/w) epoxiconazole.

A broad spectrum fungicide for use in winter wheat, spring wheat, winter barley, spring barley, oats, 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 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 that they provide an equal or higher standard of protection.

IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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 distance to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 metre from 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 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 CRD'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 OUT OF REACH OF CHILDREN.

Do not re-use container for any purpose.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. 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.

Store in a suitable pesticide store. Keep dry and protect from frost.

COMPANY ADVISORY INFORMATION

This section provides additional advice on product use and is not part of the Product Label under the Plant Protection Products Regulations 2005.

SHAKE WELL BEFORE USE.

This label is compliant with the CPA Voluntary Initiative Guidance



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Emergency Information: (24 hours freephone): 0049 180 2273112
Technical Enquiries: 0845 602 2553 (office hours)



Kingdom®

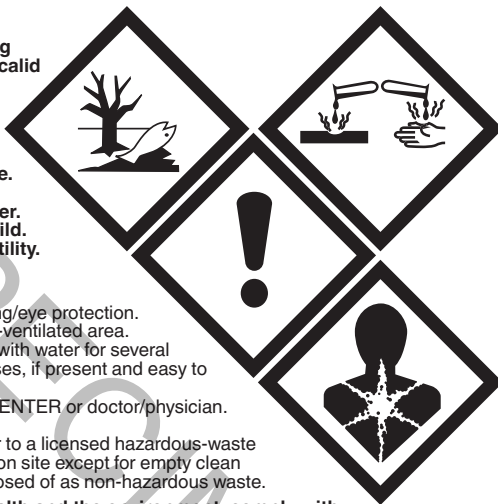
An Oil dispersion containing
140 g/litre (13.4% w/w) boscalid
and 50 g/litre (4.8% w/w)
epoxiconazole.

Danger

Causes serious eye damage.
Harmful if inhaled.
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/eye protection.
Use only outdoors or in a well-ventilated area.
IF IN EYES: Rinse cautiously with water for several
minutes. Remove contact lenses, if present and easy to
do. Continue rinsing.
Immediately call a POISON CENTER 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.**



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) Rye, Triticale	2.5 litres product per hectare	5.0 litres product per hectare/crop	Up to and including flowering (anthesis) just complete (GS 69)
Barley (winter) Barley (spring), Oats	2.5 litres product per hectare	5.0 litres product per hectare/crop	Up to and including emergence of ear just complete (GS 59)

**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.

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

Restrictions/Warnings

Avoid spray drift on to neighbouring crops.

Effects on baking and brewing have not been fully tested. Consult the grain merchant or processor before use.

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

Wash equipment thoroughly after use.

Disease control

Kingdom is a broad spectrum fungicide with systemic, protectant and curative properties for use in winter wheat, spring wheat, winter barley, spring barley, oats, rye and triticale for disease control as summarised below.

	Winter wheat	Spring wheat	Winter barley	Spring barley	Oats	Rye	Triticale
<i>Septoria tritici</i>	C	C	-	-	-	-	C
<i>Septoria nodorum</i>	C	C	-	-	-	-	C
Brown rust	C	C	C	C	-	C	C
Yellow rust	C	C	C	C	-	C	C
Net blotch	-	-	C	C	-	-	-
<i>Rhynchosporium</i>	-	-	MC	MC	-	MC	-
Eyespot	MC	MC	MC	MC	-	MC	MC
Powdery mildew	-	-	MC	MC	MC	MC	-
Crown rust	-	-	-	-	C	-	-
Tan Spot	*R	*R	-	-	-	-	-
<i>Ramularia</i>	-	-	MC	MC	-	-	-
<i>Fusarium ear blight</i> #	GR	GR	-	-	-	-	-

	Winter wheat	Spring wheat	Winter barley	Spring barley	Oats	Rye	Triticale
Sooty moulds (<i>Cladosporium</i> , <i>Botrytis</i>)	GR	GR	-	-	-	-	-

C = Control

MC = Moderate Control

GR = Good Reduction

R = Reduction

*Qualified minor use recommendation based on limited evidence of effectiveness.

Application of Kingdom to ears of wheat can lead to reduction 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 grain.

Resistance Management

Use Kingdom 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.

Kingdom contains epoxiconazole, a DMI fungicide. 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 in DMIs contact your agronomist or specialist advisor, and visit the FRAG-UK website.

Kingdom contains boscalid which belongs to the SDHI (carboxamide) group of fungicides. To minimise the risk of resistance occurring, apply a maximum of two SDHI fungicide sprays per cereal crop.

Crop Specific Information

Kingdom is a broad spectrum fungicide with systemic, protectant and curative properties for use in winter wheat, spring wheat, winter barley, spring barley, oats, rye and triticale for disease control as summarised above.

Time of Application

Apply Kingdom at the start of foliar or stem based disease attack. A maximum of two applications can be made up to and including flowering (anthesis) just complete (GS69) in winter and spring wheat, rye and triticale, and up to and including emergence of ear just complete (GS59) in winter and spring barley and oats.

Rate of Application

Apply 2.5 litres Kingdom in 150 to 300 litres of water per hectare.

Qualified recommendation

Kingdom may be applied at 2.5 litres per hectare in 100 litres of 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.

Following Crops

After treating a cereal crop with Kingdom, onions, oats, sugar beet, oilseed rape, cabbages, carrots, sunflowers, barley, lettuce, ryegrass, dwarf French beans, peas, potatoes, clover, wheat, field beans and maize may be sown as the following crop.

Mixing and Application

Mixing

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.
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.

The following does not form part of the authorised label text.

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.

Section 6 of the Health and Safety at Work Act

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:



bit.ly/Kingdom_sds

Alternatively, contact your supplier.



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