

Mantra®

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MAPP 11728

A suspo-emulsion containing 125 g/litre (11.7% w/w) kresoxim-methyl, plus 125 g/litre (11.7% w/w) epoxiconazole plus 150 g/l fenpropimorph (14.0% w/w).

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:

OPERATORS MUST WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate. OPERATORS MUST 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.

AVOID ALL CONTACT WITH SKIN. WHEN USING DO NOT EAT,

DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental protection

Do not contaminate surface waters or ditches with chemical or used container.

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 (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 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 CPD'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 AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. 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. Store in a suitable pesticide store.

Keep dry and protect from frost.

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UN 3082

Packaging Group III
Environmentally hazardous substance,
liquid, N.O.S.
(contains fenpropimorph 14%,
epoxiconazole 12%, kresoxim-methyl 12%)
Marine Pollutant

This label is compliant with
the CPA Voluntary Initiative
Guidance


The
Voluntary
Initiative

Supplied by:

BASF plc

Crop Protection

PO Box 4, Earl Road

Cheadle Hulme, CHEADLE

Cheshire SK8 6QG

Tel: 0161 485 6222

Emergency Information:

(24 hours freephone):

0049 180 2273112

Technical Enquiries:

0845 602 2553 (office hours)

 - BASF

We create chemistry

® = Registered trademark of BASF

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A suspo-emulsion containing
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plus 150 g/l fenpropimorph (14.0% w/w).

Danger

Causes serious eye irritation.
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/eye protection.
Avoid breathing mist.

Do not handle until all safety precautions have been read and understood.

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

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 Control Of Pesticide Regulations 1986.

IMPORTANT INFORMATION

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

Crops	Maximum individual dose	Maximum number of treatments	Latest time of application
Winter and spring wheat Rye, Triticale	1.0 litre product per hectare	2 per crop	Up to and including flowering (anthesis) half way (GS 65)
Winter and spring barley Oats	1.0 litre product per hectare	2 per 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.

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

1. Restrictions/Warnings

Avoid spray drift on to neighbouring crops.

This product may cause damage to broad-leaved plant species.
Wash equipment thoroughly after use.

2. Disease Control

Mantra is a fungicide with protectant, systemic and curative properties for disease control as summarised below:

	Winter Wheat	Spring Wheat	Winter Barley	Spring Barley	Oats	Rye	Triticale
Mildew	C*	C*	C	C	C	C	C
<i>Septoria tritici</i>	C	C					C
<i>Septoria nodorum</i>	C	C					C
Yellow rust	C	C	C	C		C	C
Brown rust	C	C	C	C		C	C
Net blotch			C	C			
<i>Rhynchosporium</i>			C	C		C	
Eyespot	R		R		R	R	R
<i>Fusarium</i> ear blight	GR	GR					
<i>Cladosporium</i> & <i>Botrytis</i> sooty moulds	R	R					

C = Control; GR = Good Reduction; R = Reduction.

* When used for the control of other diseases Mantra will also give control of wheat powdery mildew.

Resistance Management

Mantra contains kresoxim-methyl a member of the QoI cross resistance group. Mantra should be used preventatively and should not be relied on for its curative potential.

When curative activity is needed apply QoI fungicides in mixture with a suitable dose of a curative fungicide from a different cross-resistance group. Mantra meets this requirement as it contains epoxiconazole and fenpropimorph. To ensure the effectiveness of the epoxiconazole and fenpropimorph components as partners, Mantra should always be applied at the full recommended rate.

Strains of wheat and barley mildew resistant to QoI's are common in the UK. Control of wheat powdery mildew can only be relied upon from the triazole component. Where specific control of wheat mildew is required this should be achieved through a programme of measures, including products with recommendations for control of mildew that contain different active substances used in mixture or sequence.

Mantra contains 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.

Use Mantra 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. You must not apply more than two foliar applications of QoI containing products to any cereal crop.

There is a significant risk of widespread resistance occurring in *Septoria tritici* populations in the UK. Strains of barley powdery mildew resistant to QoI's are common in the UK. Failure to follow resistance management action may result in reduced levels of disease control.





3. Crops

Mantra is a fungicide for use in winter and spring wheat, winter and spring barley, oats, rye and triticale.

3.1 Time of Application

Apply Mantra at the start of foliar disease attack. A maximum of two applications can be made up to and including flowering half way in winter and spring wheat, rye and triticale and up to and including emergence of ear just complete in winter and spring barley and oats.

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

For protection against *Fusarium* ear blight and sooty mould on the ears of winter and spring wheat, apply Mantra during ear emergence.

For control of *Septoria tritici* and *Septoria nodorum*, treatment should normally be made after the third node detectable stage when disease is present and when weather favouring disease development has occurred. A follow-up treatment may be necessary if conditions continue to favour disease development.

3.2 Rate of Application

Apply 1 litre Mantra in 200 litres of water per hectare. Increase the water volume where the crop is dense.

4. Mixing and Spraying

Apply as a MEDIUM spray as defined by BCPC.

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.

When tank mixes are to be used, each product should be added separately to the spray tank

5. Compatibility

For details of compatibilities contact your distributor, local BASF representative or the BASF Technical Services Hotline: 0044 845 602 2553.

6. Trademark Acknowledgements

Mantra is a registered trademark of BASF.

The following does not form part of the product label under the Control of Pesticides Regulations 1986.

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 Control of Pesticides 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/mantra_sds

Alternatively, contact your supplier.

SPECIMEN

