

F U N G I C I D E

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

GENERAL INFORMATION

AMISTAR OPTI contains both a strobilurin and phthalonitrile fungicide. It has systemic and preventative properties for the control of a wide range of diseases in all commercial varieties of winter and spring wheat and winter and spring barley.

Azoxystrobin and other strobilurin analogues inhibit fungal respiration. Their mode of action is different from the action of other fungicidal groups and there is no known cross-resistance to this mode of action in pathogens which have developed reduced sensitivity to other fungicides. Chlorothalonil is a multi-site fungicide and shows no cross-resistance to strobilurins or triazoles.

AMISTAR OPTI shows good crop safety, disease control and maintenance of green leaf area which results in significant yield benefits.

AMISTAR OPTI is best used as a protectant treatment or in the earliest stages of disease development.

RESTRICTIONS

Certain apple varieties are highly sensitive to azoxystrobin. As a precaution AMISTAR OPTI should not be applied when there is a risk of spray drift onto neighbouring apple crops. Spray equipment used to apply AMISTAR OPTI to other crops should not be used to treat apples.

DISEASES CONTROLLED**Winter and Spring Wheat**

Leaf Spot (*Septoria tritici*)

Leaf Blotch, Glume Blotch (*Leptosphaeria* (syn. *Septoria*) *nodorum*)

Yellow Rust (*Puccinia striiformis*)

Brown Rust (*Puccinia recondita*)

Can reduce the severity of Take-all (*Gaeumannomyces graminis* var. *Tritici*)

Winter and Spring Barley

Net Blotch (*Pyrenophora teres*)

Brown Rust (*Puccinia hordei*)

Leaf Blotch (*Rhynchosporium secalis*) [Moderate control]

Control of Barley Spotting is also achieved when used as part of a programme with other fungicides. Can reduce the severity of Take-all (*Gaeumannomyces graminis* var. *Tritici*)

CROPS AND GROWING CONDITIONS

AMISTAR OPTI can be used on a wide range of commercial varieties of winter and spring wheat and winter and spring barley. Apply AMISTAR OPTI under good growing conditions with adequate soil moisture. Avoid poor growing conditions which may give less reliable results.

DOSE

Wheat – 2 litres per hectare. With a maximum of 2 treatments per crop.

The latest time of application for AMISTAR OPTI is 'end of flowering' (GS69).

Barley – 2 litres per hectare (individual and total maximum dose). With a maximum of 2 treatments per crop.

The latest time of application for AMISTAR OPTI is before 'beginning of heading' (GS51).

TIMING

Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made as a protectant treatment or in the earliest stages of disease development following a disease risk assessment or the use of appropriate decision support systems.

Take-all

When used to control the listed foliar diseases, AMISTAR OPTI applied at the first or second node stage of the crop can reduce the severity of Take-all infection.

RECOMMENDATIONS

Use AMISTAR OPTI as part of a disease management programme. Control of *Septoria spp.*, Brown Rust and Yellow Rust in wheat may be improved by using AMISTAR OPTI with an appropriate triazole mixture partner. This is also good practice for resistance management.

Treatment at the onset of disease development will ensure best results. Further applications may be needed if disease attack is prolonged.

APPLICATION

Mixing and spraying

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of clean water and start agitation. Add the required amount of AMISTAR OPTI to the spray tank. Agitate the mixture thoroughly before use and continue agitation during spraying. Thoroughly wash all spray equipment with water immediately after use.

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).

Volume of water and spraying

Apply in at least 200 litres of water per hectare using a MEDIUM quality spray (BCPC) at a pressure of at least 2 bar. Apply through conventional crop spraying equipment. In dense crops, increase the water volume to 250–300 litres per hectare to improve coverage.

After spraying

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

RESISTANCE MANAGEMENT

AMISTAR OPTI is a co-formulated mixture of the strobilurin azoxystrobin and chlorothalonil. The two active ingredients possess different modes of action thus form part of a resistance management strategy.

AMISTAR OPTI contains a member of the QoI cross-resistance group. AMISTAR OPTI should be used preventatively and should not be relied on for its curative potential. Control of many diseases may be improved by using AMISTAR OPTI with an appropriate triazole mixture partner. This is also good practice for resistance management.

Use AMISTAR OPTI 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.

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There is significant risk of widespread resistance occurring in *Septoria tritici* populations in the UK. Failure to follow resistance management action may result in reduced levels of disease control.

Disease control may be reduced if strains of other pathogens less sensitive to AMISTAR OPTI develop.

Users should refer to current FRAG-UK guidelines for QoI compounds.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack.

PROTECT FROM FROST.

SHAKE WELL BEFORE USE.

SAFETY PRECAUTIONS

(a) 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), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted or drawn equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), AND 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 AND EYES.

DO NOT BREATHE SPRAY.

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

WASH SPLASHES from skin or eyes immediately.

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

(b) Environmental protection



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 Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m 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 from the LERAP must be recorded and kept available for 3 years.

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used containers.

(c) Storage and disposal

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.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

F U N G I C I D E

AMISTAR OPTI**TOXIC****DANGEROUS
FOR THE
ENVIRONMENT**

Contains 100 g/l azoxystrobin and 500 g/l chlorothalonil as a suspension concentrate

TOXIC BY INHALATION.

HARMFUL IF SWALLOWED.

IRRITATING TO RESPIRATORY SYSTEM.

RISK OF SERIOUS DAMAGE TO EYES.

MAY CAUSE SENSITISATION BY SKIN CONTACT.

LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.

**VERY TOXIC TO AQUATIC ORGANISMS, MAY
CAUSE LONG-TERM ADVERSE EFFECTS IN THE
AQUATIC ENVIRONMENT.**

Keep out of the reach of children.

When using do not eat, drink or smoke.

Keep away from food, drink and animal feeding stuffs.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves, eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

This material and its container must be disposed of in a safe way.

Use appropriate containment to avoid environmental contamination.

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

THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE.

Crops	Maximum individual dose (product/ha)	Maximum total dose (product/ha/crop)	Maximum number of treatments	Latest time of application
Wheat	2 litres	–	2 per crop	Before caryopsis watery ripe stage (GS71)
Barley	2 litres	–	2 per crop	Before beginning of heading (GS51)

Other Specific Restrictions:

No more than two applications of products containing QoI fungicides must be applied to any cereal crop.

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.

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In case of toxic or transport emergency ring 01484 538444 any time