



# Amistar®

syngenta®

Product registration number: MAPP 18039.

AMISTAR is a suspension concentrate containing 250 g/litre (23.1% w/w) of azoxystrobin

A broad spectrum fungicide for wheat, barley, oats, rye, triticale, combining peas, fresh peas (vining peas, garden pea, mange tout, sugar snaps), fresh beans (broad beans, green beans), field beans, lupins, bulb onions, garlic, shallots, leeks, carrots, asparagus, potatoes, oilseed rape, cabbage, cauliflower, Brussels sprouts, kale (winter greens), collard (spring greens), broccoli, calabrese, outdoor and protected crops of strawberry, outdoor and protected crops of lettuce, endive (including frisée, escarole), chicory (radicchio).

## SAFETY PRECAUTIONS

### (a) Operator protection

WASH SPLASHES from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

### (b) Environmental protection

Avoid drift on to non-target plants.


To protect aquatic life, for uses on crops broccoli, calabrese, Brussel sprouts, cabbage, cauliflower, collards, lettuce and kale, the maximum total dose applied must not exceed 500 g Azoxystrobin per hectare per year.

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 (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application.

Product names marked ® or ™, the ALLIANCE FRAME, the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company



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 CRD 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.

### (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.

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

**In case of toxic or transport emergency ring  
+44 (0)1484 538444 any time**

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**SHAKE WELL BEFORE USE. PROTECT FROM FROST.**

This product label is compliant with the CPA Voluntary Initiative (VI) guidance.



## AMISTAR

AMISTAR is a suspension concentrate containing 250 g/litre (23.1% w/w) of azoxystrobin



### Warning

Harmful if inhaled.

Very toxic to aquatic life with long lasting effects.

Avoid breathing dust/fumes/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/ doctor if you feel unwell.

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.

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

Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.

## IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL FUNGICIDE.

Crop: wheat, barley, oats, rye, triticale, combining peas, fresh peas (vining peas, garden pea, mange tout, sugar snaps), fresh beans (broad beans, green beans), field beans, lupins, bulb onions, garlic, shallots, leeks, carrots, asparagus, potatoes, oilseed rape, cabbage, cauliflower, Brussels sprouts, kale (winter greens), collard (spring greens), broccoli, calabrese, outdoor and protected crops of strawberry, outdoor and protected crops of lettuce, endive (including frisee, escarole), chicory (radicchio).

Maximum individual dose, Maximum number of treatments, Latest time of application & Other Specific Restrictions: Full details are given in the Important Information section on page 2 of this leaflet.

**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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PROTECT FROM FROST.  
SHAKE WELL BEFORE USE.

**IMPORTANT INFORMATION**

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL FUNGICIDE

<b>Crop</b>	<b>Maximum individual dose (litres product/ha)</b>	<b>Maximum number of treatments (per crop)</b>	<b>Minimum spray interval (days)</b>	<b>Latest time of application</b>
Wheat, rye and triticale	1	2	14	Before watery ripe stage (GS 71)
Barley, oats	1	2	14	Before beginning of flowering (GS 61)
Peas – combining	1	2	14	35 days before harvest
Fresh Peas (vining, garden pea, sugar snap, mange tout)	1	2	14	14 days before harvest
Broad beans	1	2	14	14 days before harvest
Fresh Beans (green bean)	1	2	14	7 days before harvest
Field Beans, lupins	1	2	21	35 days before harvest
Bulb onions, garlic, shallots	1	3	7	14 days before harvest
Leeks	1	3	12	21 days before harvest
Carrots	1	3	7	14 days before harvest
Asparagus (outdoor)	1	2	10	Before senescence
**Brussels sprout, Cabbage, cauliflower, kale (winter greens), collards (spring greens), broccoli and calabrese – all outdoor	1	2	12	14 days before harvest
Strawberries (outdoor and protected)	1	3	7	3 days before harvest
**Lettuce, endive (including frisee, escarole), chicory (radicchio), (outdoor and protected)	1	2	7	14 days before harvest
Potato (in-furrow)	3	1	-	At planting, applied as an in-furrow treatment
Potato (foliar spray)	0.5	3	7	7 days before harvest
Winter and Spring Oilseed rape	1	2	21	21 days before harvest

**Other Specific Restrictions:**

To reduce the risk of resistance developing in target diseases the total number of applications of product containing QoI fungicides made to any cereal crop must not exceed two.

When used in a protected situation other than “permanent protection with full enclosure”, aquatic buffer zones in line with LERAP requirements must be observed.

\*\*A maximum total dose of 500g azoxystrobin must not be exceeded within a 12 month period on the same field.

**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.**

This leaflet is part of the approved Product Label.

## **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 contains azoxystrobin, a broad spectrum fungicide from the strobilurin group. It has systemic, translaminar and protectant properties.

Azoxystrobin inhibits fungal respiration. Its mode of action is different from the action of other fungicidal groups. It should always be used in mixture with fungicides with other modes of action.

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

AMISTAR is best used as a protective treatment or during early stages of disease establishment. In cereals, the length of disease control is generally about four to six weeks during the period of active stem elongation, but can be more when applied at flag leaf/ear emergence.

AMISTAR is approved for application to wheat, barley, oats, rye, triticale, combining peas, fresh peas (vining peas, garden pea, mange tout, sugar snaps), fresh beans (broad beans, green beans), field beans, lupins, bulb onions, garlic, shallots, leeks, carrots, asparagus, potatoes, oilseed rape, cabbage, cauliflower, Brussels sprouts, kale (winter greens), collard (spring greens), broccoli, calabrese, outdoor and protected crops of strawberry, outdoor and protected crops of lettuce, endive (including frisee, escarole), chicory (radicchio).

## **RESTRICTIONS**

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

Apply AMISTAR under good growing conditions with adequate soil moisture. Avoid poor growing conditions which may give less reliable results.

## **DISEASES CONTROLLED**

### **Wheat**

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

Yellow Rust (*Puccinia striiformis*)

Brown Rust (*Puccinia recondita*)

Ear Diseases (Cladosporium, Alternaria)

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

### **Barley**

Net Blotch (*Pyrenophora teres*)

Brown Rust (*Puccinia hordei*)

Leaf Blotch (*Rhynchosporium secalis*) – reduction

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

### **Oats**

Crown Rust (*Puccinia coronata*)

## **Rye and Triticale**

Brown Rust (*Puccinia recondita*)

Leaf Blotch (*Rhynchosporium secalis*) - reduction

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

## **Combining Peas, Vining Peas, Garden Peas, Sugar Snap, Mange Tout, Green Beans**

Downy mildew (*Peronospora viciae*) - reduction

Leaf and Pod Spot (*Ascochyta pisi*) – useful

When AMISTAR is used to control leaf and pod spot, some control of Grey Mould (*Botrytis cinerea*) and *Mycosphaerella* blight may be achieved.

## **Field Beans and Broad Beans**

Rust (*Uromyces fabae*)

## **Lupins**

Rust (*Uromyces spp.*) – Qualified Use Recommendation

## **Bulb Onions, Shallots and Garlic**

Downy mildew (*Peronospora destructor*) - moderate

## **Leeks**

Leaf rust (*Puccinia porri*)

Purple blotch (*Alternaria porri*) - moderate

White tip (*Phytophthora porri*) - moderate

## **Carrots**

*Alternaria* leaf blight (*Alternaria dauci*)

Powdery mildew (*Erysiphe polygoni*)

## **Asparagus**

Stemphylium (*Stemphylium botryosum*)

Rust (*Puccinia asparagi*)

## **Brussels Sprouts, Cabbage, Cauliflower, Kale (Winter Greens), Collards (Spring Greens), Broccoli and Calabrese**

For moderate control of:

White blister (*Albugo candida*)

Ring spot (*Mycosphaerella brassicicola*)

*Alternaria* (*Alternaria brassicae* and *Alternaria brassicicola*)

## **Strawberry**

Powdery mildew (*Podosphaera macularis*) - moderate

Anthracoze (*Colletotrichum acutatum*) – Qualified Use recommendation

## **Lettuce, Endive (Frisse and Escarole), Chicory (Raddichio)**

Downy mildew (*Bremia spp.*)

## **Potatoes**

Stem canker and Black scurf (*Rhizoctonia solani*) – reduction in furrow only

Black dot (*Colletotrichum coccodes*) – reduction in furrow only

Early blight (*Alternaria solani*) - moderate control foliar use only

## **Oilseed rape**

Dark Leaf and Pod Spot (*Alternaria spp.*)

Sclerotinia stem rot (*S. sclerotiorum*) - moderate control

## **CROP SPECIFIC INFORMATION**

### **CROPS**

AMISTAR is approved for application to wheat, barley, oats, rye, triticale, combining peas, fresh peas (vining peas, garden pea, mange tout, sugar snaps), fresh beans (broad beans, green beans), field beans, bulb onions, garlic, shallots, leeks, carrots, asparagus, potatoes, oilseed rape, cabbage, cauliflower, Brussels sprouts, kale (winter greens), collard (spring greens), broccoli, calabrese, outdoor and protected crops of strawberry, outdoor and protected crops of lettuce, endive (including frisee, escarole), chicory (radicchio).

### **WINTER & SPRING WHEAT, WINTER AND SPRING BARLEY, WINTER AND SPRING OATS, RYE & TRITICALE**

#### **Timing**

Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made in the earliest stages of disease development or as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems. Winter and spring wheat, rye and triticale can be treated from BBCH 30 -69. Winter and Spring barley and winter and spring oats can be treated from BBCH 30-59.

For protection against ear disease (*Cladosporium and Alternaria*) apply AMISTAR at ear emergence.

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

#### **Rate Of Use**

1.0 litre per hectare.

The maximum number of applications to any cereal crop is two per crop

#### **Tank Mixing**

On cereal crops, AMISTAR must always be used in mixture with another product, recommended for control of the same target disease that contains a fungicide from a different cross resistance group and is applied at a dose that will give robust control.

#### **Resistance Management**

Use AMISTAR 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.

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

On cereal crops, AMISTAR must always be used in mixture with another product, recommended for control of the same target disease that contains a fungicide from a different cross resistance group and is applied at a dose that will give robust control.

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

### **PEAS (COMBINING AND FRESH), GREEN BEANS, BROAD BEAN, LUPIN**

#### **Timing**

AMISTAR should always be used at the first sign of disease infection or when a predictive assessment shows conditions favourable for disease development from BBCH 17-72. For optimum disease control apply AMISTAR before infection or as soon as disease is first seen in the crop. Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made in the earliest stage of disease development or as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems.

**Rate Of Use**

1.0 litre per hectare.

A second treatment may be required if disease pressure remains high – especially in combining peas. A minimum interval of 14 days must be observed between applications.

**Peas For Processing**

Where a crop of peas is destined for processing, consult your processor before treating with AMISTAR. (One year's results indicate that no taints were detected on quick frozen, canned, vining or canned combining peas)

**Crop Safety**

AMISTAR shows good crop safety on combining peas and fresh peas. Before applying ensure the crop is free from any stress caused by environment or agronomic effects. Check wax level if necessary using the Crystal Violet test.

**Resistance Management**

To avoid the likelihood of resistance developing, application of AMISTAR should be made with due regard to current FRAG-UK guidelines for QoI compounds. Do not make more than two applications of AMISTAR.

**FIELD BEAN****Timing**

Before applying AMISTAR, ensure the crop is free from any stress caused by environmental or agronomic effects. Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made in the earliest stage of disease development from BBCH 60-69 or as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems.

A second treatment may be required if disease pressure remains high. A minimum interval of 21 days must be observed between applications.

**Rate Of Use**

1 litre per hectare

**Resistance Management**

To avoid the likelihood of resistance developing, application of AMISTAR should be made with due regard to current FRAG-UK guidelines for QoI compounds. Do not make more than two applications of AMISTAR to crops of field beans. Use AMISTAR 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.

**BULB ONIONS, LEEKS AND CARROTS****Timing**

Before applying AMISTAR, ensure the crop is free from any stress caused by environmental or agronomic effects. For optimum disease control AMISTAR should be used at the first sign of disease infection or preferably preventatively when a predictive assessment shows conditions favourable for disease development. Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made in the earliest stage of disease development or as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems.

Bulb onions, garlic and shallots can be treated from BBCH 14-48

Leeks can be treated from BBCH 16 – 48

Carrots can be treated from BBCH 16 - 49

## Rate Of Use

1.0 litre per hectare.

## Bulb Onion

- For optimum downy mildew control in bulb onions, garlic and shallot a 7 to 10 day spray interval should be maintained
- Applications to established downy mildew infection are unlikely to give reliable control

## Processing

Where a crop is destined for processing, consult your processor before treating with AMISTAR

## Resistance Management

Use AMISTAR 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.

To avoid the likelihood of resistance developing, applications of AMISTAR should be made with due regard to current FRAC guidelines for QoI compounds as illustrated below in the following table:

Total number of fungicide spray applications per crop	1	2	3	4	5	6	7	8	9	10	11	≥12
Maximum recommended solo QoI fungicide sprays	1	1	2	2	2	2	2	3	3	3	3	4
Maximum recommended QoI fungicide sprays in mixture	1	2	2	2	2	3	3	4	4	4	4	4

No more than 3 applications of AMISTAR are permitted per crop. Refer to the FRAC website for updates on recommendations for resistance management.

## ASPARAGUS (OUTDOOR)

### Timing

Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made in the earliest stages of disease development or as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems. Asparagus can be treated from BBCH 41 – 89.

Earliest time of application : After commercial cutting

AMISTAR may only be applied after the harvest season (i.e. after commercial cutting). Where a new 'bed' is established, do not treat within three weeks of transplanting out the crowns.

A minimum interval of 10 days must be observed between applications.

Latest time of application : until the end of September or before the crop senescence, whichever is sooner.

AMISTAR shows good crop safety on asparagus. Before applying ensure the crop is free from any stress caused by environmental or agronomic effects.

## Rate Of Use

1.0 litre per hectare.



## Resistance Management

AMISTAR contains azoxystrobin a member of the QoI cross resistance group. AMISTAR should be used preventatively and should not be relied on for its curative potential. Disease control may be reduced if strains of pathogens less sensitive to azoxystrobin develop.

To avoid the likelihood of resistance developing, applications of AMISTAR should be made with due regard to current FRAC guidelines for QoI compounds as illustrated below in the following table:

Total number of fungicide spray applications per crop	1	2	3	4	5	6	7	≥8
Maximum recommended solo QoI fungicide sprays	1	1	2	2	2	2	2	3
Maximum recommended QoI fungicide sprays in mixture	1	2	2	2	2	3	3	3

No more than 2 applications of AMISTAR are permitted per crop. Refer to the FRAC website for updates on recommendations for resistance management.

## POTATOES

### FOLIAR APPLICATION

For the control of early blight (*alternaria solani*).

### Timing

Before applying AMISTAR, ensure the crop is free from any stress caused by environmental or agronomic effects. Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made in the earliest stage of disease development or as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems.

Potatoes can be treated from BBCH 51-85

A minimum interval of 7 days must be observed between applications.

### Rate of Use

0.5 litre per hectare

A total of 3 applications can be made per season if disease pressure remains high.

### Potatoes For Processing

Where a crop of potatoes is destined for processing, consult processors before treating with AMISTAR.

## Resistance Management

The risk of resistance developing to AMISTAR in *Alternaria solani* is considered to be moderate. To avoid the likelihood of resistance developing, application of AMISTAR should be made with due regard to current FRAG-UK guidelines for QoI compounds. Use AMISTAR 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.

### IN-FURROW APPLICATION

#### Timing

AMISTAR must be applied as an in-furrow application made at the time of planting for the reduction of Stem canker, Black scurf (*Rhizoctonia solani*) and Black dot (*Colletotrichum coccodes*).

Where AMISTAR is applied as an in-furrow application, it is important to direct the spray into the planting furrow and not onto the seed tuber. Application should ensure that the AMISTAR is applied to soil around the tuber.

### **Rate Of Use**

For in-furrow application made at planting : 3 litre per hectare

A maximum of one application per crop should be made

### **Advisory Information**

With in-furrow application, always target the soil and not the seed tuber in order to minimise any possible delay in emergence. Wherever possible, use properly chitted seed or cold-stored seed which has not started to sprout. Using seed which has just broken dormancy may well result in emergence delays.

Using AMISTAR following earlier applications of imazalil, pencycuron or imazalil/pencycuron is likely to lead to a check in the speed of crop emergence. Effects are usually, but not always, outgrown.

### **Effects of soil type**

Do not use AMISTAR on high organic matter soils as the product will not be effective.

### **Potatoes For Processing**

Where a crop of potatoes is destined for processing, consult processors before treating with AMISTAR.

### **Resistance Management**

The risk of resistance developing to AMISTAR in *Rhizoctonia solani* (Black scurf and Stem canker) and *Colletotrichum coccodes* (Black dot) is considered to be very low. AMISTAR should only be used in potato crops, which adhere to good rotation practices.

To avoid the likelihood of resistance developing to QoI compounds used to control potato late blight, application of AMISTAR should be made with due regard to current FRAG-UK guidelines for QoI compounds. If an application of AMISTAR is made, no more than two further QoI treatments should be applied sequentially as the first sprays against late blight before using an alternative product.

## **WINTER AND SPRING OILSEED RAPE**

### **Timing**

Before applying AMISTAR, ensure the crop is free from any stress caused by environmental or agronomic effects. Best results will be achieved from applications made as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems. Oilseed rape can be treated from BBCH 60-69.

A second treatment may be required if disease pressure remains high

Sclerotinia – AMISTAR should be applied as a protectant spray during flowering. The optimum timing is early flowering to mid flowering (GS60 – GS65)

Alternaria – Apply AMISTAR as a protective spray at early pod formation when the first ten pods are longer than 4 cm, before they become knobbly and not later than the time the first spots are seen on the pods.

Note: an application of AMISTAR against *Sclerotinia* will significantly limit the development of *Alternaria*

**Rate Of Use**

1 litre per hectare

**Resistance Management**

To avoid the likelihood of resistance developing, application of AMISTAR should be made with due regard to current FRAG-UK guidelines for QoI compounds. Do not make more than two applications of AMISTAR to crops of oilseed rape. Use AMISTAR 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.

**BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, KALE (WINTER GREENS), COLLARDS (SPRING GREENS), BROCCOLI AND CALABRESE****Timing**

Before applying AMISTAR, ensure the crop is free from any stress caused by environmental or agronomic effects. Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made in the earliest stage of disease development or as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems.

Brassicas can be treated from BBCH 16-49.

A second treatment may be required if disease pressure remains high. A minimum interval of 12 days must be observed between applications to brassicae.

**Rate Of Use**

1 litre per hectare

A maximum total dose of 500g azoxystrobin must not be exceeded within a 12 month period on the same field.

**Resistance Management**

To avoid the likelihood of resistance developing, application of AMISTAR should be made with due regard to current FRAG-UK guidelines for QoI compound. Do not apply more than a total of two applications of AMISTAR to any brassica crop.

**OUTDOOR AND PROTECTED LETTUCE, ENDIVE (INCLUDING FRISEE AND ESCAROLE), CHICORY (RADICCHIO)****Timing**

Before applying AMISTAR, ensure the crop is free from any stress caused by environmental or agronomic effects. Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made in the earliest stage of disease development or as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems.

Lettuce, Endive (including frisee and escarole), and chicory (radicchio) can be treated from BBCH 14 -49.

A minimum interval of 7 days must be observed between applications for both protected and outdoor uses.

**Rate of Use**

1.0 litre per hectare.

A maximum total dose of 500g azoxystrobin must not be exceeded within a 12 month period on the same field.

## Resistance Management

Use AMISTAR 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.

To avoid the likelihood of resistance developing, application of AMISTAR should be made with due regard to current FRAG-UK guidelines for QoI compounds. Do not apply more than a total of two applications, when used as part of a programme.

## OUTDOOR AND PROTECTED STRAWBERRY

### Timing

For optimum results apply AMISTAR as a protectant spray at the beginning of flowering. Two further applications can be made if disease pressure remains high. Application should be made in sequence with other products as part of a fungicide programme during flowering at a minimum interval of 7 days.

Strawberries can be treated from BBCH 51-89.

A minimum interval of 7 days must be observed between applications to all strawberry crops.

### Rate of Use

1.0 litre per hectare.

### Processing

Where a crop is destined for processing, consult your processor before treating with AMISTAR.

## Resistance Management

Use AMISTAR 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.

To avoid the likelihood of resistance developing, applications of AMISTAR should be made with due regard to current FRAC guidelines for QoI compounds as illustrated below in the following table:

Total number of fungicide spray applications per crop	1	2	3	4	5	6	7
Maximum recommended solo QoI fungicide sprays	1	1	2	2	2	2	2
Maximum recommended QoI fungicide sprays in mixture	1	2	2	2	2	3	3

No more than 3 applications of AMISTAR are permitted per crop.

## QUALIFIED USE RECOMMENDATION

### Strawberries and Lupins

The following uses are supported by a limited amount of effectiveness data which indicate that the use of Amistar at 1.0 l/ha may provide some useful activity against Rust (*Uromyces spp.*) on Lupins and Anthracnose (*Collectotrichum acutatum*) on strawberries

## MIXING AND SPRAYING

Ensure that the sprayer is clean and correctly set to give an even application at the required volume. Half-fill the spray tank with clean water and start agitation. Shake the container and add the required amount of AMISTAR to the sprayer using a filling device (e.g. induction bowl or closed transfer unit) or by direct addition to the sprayer tank.

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**

### **OUTDOOR CROPS**

Apply using a medium quality spray (BCPC) at a pressure of at least 2 bar. Apply through conventional crop spraying equipment calibrated to give an even application at the correct volume.

Strawberries : Apply in at least 300 litres of water per hectare

Brussels sprouts, cabbage, cauliflower, kale (winter greens), collards (spring greens), broccoli,

calabrese: Apply in at least 250 litre of water per hectare

Green beans, broad beans: Apply in at least 150 litres of water per hectare

Lettuce and associated crops: Apply in at least 300 litres of water per hectare

Cereals, combining peas, fresh peas, field beans, lupins, oilseed rape, carrots, leek, bulb onions, garlic and shallots: Apply in at least 200 litres of water per hectare

In dense crops, increase the water volume to improve coverage

Asparagus:

For conventional tractor mounted crop spraying equipment, apply in at least 600 litres of water per hectare using a medium quality sprayer (BCPC) at a pressure of at least 2 bar.

For hand-held spraying equipment, apply in at least 200 litres of water per hectare.

Potatoes

**In-furrow application use**: Apply between 50-150 litres of water per hectare. Apply using specialist in-furrow application equipment. Contact Syngenta UK Ltd for further details on suitable manufacturers of these sprayers.

**Foliar application**: Apply in at least 200 litres of water per hectare.

### **INDOOR CROPS**

Application should be made via a hydraulic nozzle applicator e.g. motorised sprayer with hand or boom lance or via a knapsack sprayer.

Lettuce and associated crops : Apply in at least 300 litres of water per hectare

Strawberry: Apply in at least 100 litres of water per hectare

### **AFTER SPRAYING**

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

## **COMPANY ADVISORY INFORMATION**

This information is not part of the approved label under the Plant Protection Product Regulations (2003) but provides additional Company advice on the product use.

### **Good Field Practice**

As part of our Product Stewardship policy, Syngenta UK Ltd recommend the following precautions should also be observed:

- Wear appropriate clothing - coveralls and protective gloves, when handling the concentrate.

### **Agricultural Practice**

#### **Integrated Crop Management**

Laboratory data indicate that when used as directed AMISTAR has no adverse effects on the following beneficial species.

Earthworm (*Eisenia fetida*); Bees (*Apis* and *Bombus* spp.); Parasitic Wasps (*Trichogramma cacoeciae*, *Aphidis* spp. and *Encarsia formosa*); Aphid Predators (*Coccinella septempunctata*, *Chrysoperia carnea*, *Episyrrhus balteatus*); Predatory mites (*Phytoseiulus persimilis*, *Amblyseius degenerans*); Spider (*Pardosa* spp.); Predatory bugs (*Macrolophus caliginosus*, *Orius laevigatus*); Carabid Beetle (*Poecilus cupreus*).

### **Resistance Management**

AMISTAR contains azoxystrobin a member of the QoI cross resistance group. AMISTAR should be used preventatively and should not be relied on for its curative potential. Disease control may be reduced if strains of pathogens less sensitive to azoxystrobin develop.

Use AMISTAR 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.

To avoid the likelihood of resistance developing, application of AMISTAR should be made with due regard to current FRAG-UK guidelines for QoI compound

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