MAPP 15922

A broad-spectrum fungicide with translaminar, systemic and protectant activity for use in wheat, barley, triticale, rye, combining & vining peas, and asparagus.

A suspension concentrate containing 250g per litre (23.1% w/w) azoxystrobin.

**Danger**

Causes serious eye damage.

Very toxic to aquatic life with long lasting effects.

Avoid release to the environment.

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

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.

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.
## IMPORTANT INFORMATION
FOR USE ONLY AS A PROFESSIONAL AGRICULTURAL/HORTICULTURAL FUNGICIDE

<table>
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<tr>
<th>Crop or situation</th>
<th>Maximum individual dose of product</th>
<th>Maximum number of treatments</th>
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<td>1 l/ha</td>
<td>Three per year</td>
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**Other specific restrictions**
To reduce the risk of resistance developing in target diseases the total number of applications of product containing Qol fungicides made to any cereal crop must not exceed two. Non-returnable containers must not be re-used for any purpose.

**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.**

## 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 (FACE SHIELD) when handling the concentrate.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
AVOID CONTACT WITH EYES.
IN CASE OF CONTACT WITH EYES, rinse immediately with plenty of water and seek medical advice.
WASH CONCENTRATE from skin or eyes immediately.
DO NOT BREATHE SPRAY.
WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

### ENVIRONMENTAL PROTECTION
Avoid drift onto non-target plants.

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.

### STORAGE AND DISPOSAL
KEEP OUT OF REACH OF CHILDREN.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
This material and its container must be disposed of in a safe way.
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 the container safely.
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.

Chamane is a systemic trans laminar and protectant strobilurin fungicide and belongs to the Qol group of fungicides (FRAC mode of action code 11). It inhibits fungal respiration. To reduce the risk of the development of resistance, it should always be used in tank mixture or a programme with other fungicides which have a different mode of action. In addition to disease control, it can maintain green leaf area in crops longer than untreated crops and this can also lead to significant yield benefits. Apply as a preventative treatment when predictive tools indicate the likelihood of disease development or at the first sign of disease in the crop. Generally, it gives 4 – 6 weeks protection against susceptible diseases when applied to cereals at the stem elongation stage. Persistence may be even longer when applied to the flag leaf or the ear.

RESTRICTIONS
Some apple varieties are very sensitive to Chamane. To avoid problems, Chamane should not be applied when there is a risk of spray drift onto neighbouring apple crops. Do not treat apples with spray equipment used to apply Chamane to other crops. Chamane should be applied under good growing conditions with adequate soil moisture. Poor growing conditions may give less reliable results. To reduce the risk of resistance developing in target diseases the total number of applications of product containing Qol fungicides made to any cereal crop must not exceed two.

RESISTANCE MANAGEMENT
Chamane contains azoxystrobin, a member of the Qol cross resistance group. Chamane should be used preventatively and should not be relied on for its curative potential. To avoid the likelihood of resistance developing, applications of Chamane should be made with due regard to current FRAC and FRAG-UK guidelines for Qol compounds.

Good resistance management is based on limiting the level of exposure of the target pathogen to the fungicide. Fungicide input is only one aspect of crop management and other control measures should always be used, such as good hygiene through disposal of crop debris and control of volunteers which may harbour disease. Always aim to select varieties exhibiting a high degree of resistance to diseases known to be prevalent in your area, in addition to the main agronomic factors you desire. Avoid growing large areas of any one variety, particularly in areas of high disease risk where the variety is known to be susceptible. Only use fungicides in situations where the risk or presence of disease warrants treatment. Use a dose that will give effective disease control and which is appropriate for the cultivar and disease pressure. Make full use of effective fungicides with different modes of action in mixtures or as alternate sprays. Ensure that mixing partners are used at doses that give similar efficacy and persistence. Monitor crops regularly for disease and treat before the infection becomes well established. Best results are achieved if applications are made as a protectant treatment, or when applied in the earliest stages of disease development. Avoid repeated applications of the same product or mode of action and never exceed the maximum recommended number of applications.

CROP SPECIFIC INFORMATION

WINTER & SPRING WHEAT, WINTER & SPRING BARLEY
Winter and spring wheat, winter and spring barley: Two applications of 1.0 L/ha are permitted in wheat and barley with the last application before the crop passes the grain watery ripe stage (GS71). Application should be made using a MEDIUM quality spray as defined by BCPC in a minimum of 200 L/ha and at a pressure of at least 2 bar. Where crops are dense the water volume should be increased to 250-300 L/ha to improve coverage. Chamane will control the following diseases in wheat and barley crops:
**Wheat**
- Leaf Spot (*Septoria tritici*)
- Glume Blotch (*Leptosphaeria* (syn. *Septoria*) *nodorum*)
- Yellow Rust (*Puccinia striiformis*)
- Brown Rust (*Puccinia recondita*)
- Ear Diseases (*Cladosporium, Alternaria*)

Application should be made at ear emergence for protection against ear diseases (*Cladosporium and Alternaria*).

**Barley**
- Net Blotch (*Pyrenophora teres*)
- Brown Rust (*Puccinia hordei*)
- Powdery Mildew (*Erysiphe graminis hordei*) – moderate control
- Leaf Blotch (*Rhynchosporium secalis*) – reduction

**RYE & TRITICALE**
Two applications of 1.0 L/ha are permitted in, rye and triticale with the last application before the crop passes the grain watery ripe stage (GS71). Application should be made using a MEDIUM quality spray as defined by BCPC in a minimum of 200 L/ha and at a pressure of at least 2 bar. Where crops are dense the water volume should be increased to 250-300 L/ha to improve coverage.

Chamane will control the following diseases in rye and triticale crops:

**Rye and Triticale**
- Brown Rust (*Puccinia recondita*)
- Leaf Blotch (*Rhynchosporium secalis*) – reduction
- Powdery Mildew (*Erysiphe graminis*) – moderate control

Monitor crops regularly for disease and treat before the infection becomes established. Best results are achieved if applications are made as a protectant treatment, or when applied in the earliest stages of disease development.

A maximum of 2 applications may be made to any cereal crop.

**Tank mixing**
On cereal crops, Chamane must **always** be tank mixed with another fungicide which is also recommended for control of the same disease. The other fungicide must be from a different cross resistance group and applied at a rate appropriate for disease control on its own.

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

**Resistance Management Guidelines**
Chamane contains azoxystrobin, a member of the QoI cross resistance group. Chamane should be used preventatively and should not be relied on for its curative potential. Use Chamane as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including 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. On cereal crops Chamane 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.

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

**RYE & TRITICALE**
Two applications of 1.0 L/ha are permitted in, rye and triticale with the last application before the crop passes the grain watery ripe stage (GS71). Application should be made using a MEDIUM quality spray as defined by BCPC in a minimum of 200 L/ha and at a pressure of at least 2 bar. Where crops are dense the water volume should be increased to 250-300 L/ha to improve coverage.
Chamane will control the following diseases in rye and triticale crops:

**Rye and Triticale**
Brown Rust (*Puccinia recondita*)
Leaf Blotch (*Rhynchosporium secalis*) – reduction
Powdery Mildew (*Erysiphe graminis*) – moderate control

**PEAS – COMBINING AND VINING**
Two applications of 1.0 L/ha are permitted in peas with the last application at least 36 days before harvest of combining peas and 14 days before harvest of vining peas. Before applying Chamane, ensure the crop is free from any stress caused by environmental or agronomic effects. Prior to treatment, ensure that the peas have adequate wax using a Crystal violet test kit. Application should be made using a MEDIUM quality spray as defined by BCPC in a minimum of 200 L/ha at a pressure of at least 2 bar. Where crops are dense the water volume should be increased to 250-300 L/ha to improve coverage.

Chamane will control the following diseases in pea crops:
Leaf and Pot Spot (*Ascochyta pisi*) – useful control.
When Chamane is used to control Leaf and Pod Spot, some control of Grey Mould (*Botrytis cinerea*) and mycosphaerella blight may be achieved.

Monitor crops regularly for disease and treat before the infection becomes established.
Best results are achieved if applications are made as a protectant treatment, or when applied in the earliest stages of disease development.

A second treatment may be required if disease pressure remains high – especially in combining peas.

**Peas for processing**
Where a crop of peas is intended for processing, consult your processor before treating with Chamane.

**Resistance Management Guidelines**
Refer to current FRAC and FRAG-UK guidelines for QoI compounds to reduce the chances of resistance developing.

Do not make more than two applications of Chamane to crops of combining and vining peas.

**OUTDOOR ASPARAGUS**
Three applications of 1.0 L/ha are permitted in outdoor asparagus with the last application applied before the start of crop senescence or the end of September, whichever occurs first. Application should be made using a MEDIUM quality spray as defined by BCPC in a minimum of 600 L/ha at 2 bar pressure when using tractor-mounted spraying equipment. Alternatively, for smaller areas, use hand-held sprayers delivering 200 L/ha at a minimum pressure of 2 bar. Treatment of established beds must be after the completion of harvest or commercial cutting. When new beds need to be treated, do not apply Chamane within three weeks of planting out the crowns.
The application interval between subsequent treatments should be 8 to 12 days. Before applying Chamane ensure the crop is free from any stress caused by environmental or agronomic effects.

Chamane will control the following diseases in asparagus:
Stemphyllium (*Stemphylium botryosum*)
Rust (*Puccinia asparagi*)

**Resistance Management Guidelines**
Chamane contains azoxystrobin, a member of the QoI cross resistance group. Chamane 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 Chamane should be made with due regard to current FRAC and FRAG-UK guidelines for QoI compounds as illustrated below in the following table:

<table>
<thead>
<tr>
<th>Total number of fungicide spray applications per crop</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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<tr>
<td>Maximum recommended solo Qo fungicide spray</td>
<td>1</td>
<td>1</td>
<td>2</td>
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<td>2</td>
<td>2</td>
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<td>3</td>
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<tr>
<td>Maximum recommended Qo fungicide sprays in mixture</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
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No more than 3 applications of Chamane are permitted per crop. Refer to the FRAC website for updates on recommendations for resistance management.

**MIXING AND SPRAYING**
Before spraying it is important to check all hoses, filters and nozzles, and to ensure that the sprayer is clean and correctly set to give an even application at the correct volume. Half fill the spray tank with clean water. Begin agitation. Shake the container and add the required quantity of Chamane directly to the tank. Add the remainder of the water and agitate the mixture thoroughly before and during spraying. Wash out containers with an integrated pressure rinsing device or manually rinsing three times and add the washings to the spray tank at the time of filling. Continue to agitate throughout the spraying operation. Do not leave the diluted spray in the tank for extended periods such as during meal breaks or overnight.

**CLEANING OF APPLICATION EQUIPMENT**
To avoid damage to other crops, the application equipment must be thoroughly de¬contaminated after application. Immediately after application, drain the tank completely and wash down with clean water. Rinse out the tank and flush through the booms and hoses. Half-fill the tank with clean water and add the recommended dose of detergent cleaner. Agitate and then flush the boom and hoses with the cleaning solution. Top up the tank so that it is completely full and leave to stand for 15 minutes with the agitation running. Flush the booms and hoses again and drain completely. Remove the nozzles and filters and clean separately in a solution of detergent cleaner in 10 litres of water. Rinse the tank again with clean water, using at least 10% of the tank volume and dispose of the washings safely. For disposal of washings in the UK, follow the 'Code of Practice for Using Plant Protection Products' while in Ireland you should comply with local and national regulations.

**Company Advisory Information**
This section is not part of the Product Label under the Control of Pesticides Regulations 1995. It provides additional advice on product use at the discretion of the approval holder.

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**Trace elements**
Chamane is compatible with a number of trace element products which should be added to the spray tank last with agitation running and should be sprayed immediately. For details of compatible mixtures, contact your supplier.

**CONDITIONS OF SUPPLY**
All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during and after application which may affect the performance of the goods, 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 or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. Our staff or agents cannot vary these conditions whether or not they supervise or assist in the use of such goods. Other brand names used in this guide are trademarks of other manufacturers for which propriety rights may exist.

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To access the Safety Data Sheet for CHAMANE please use the link below or scan the code.


Alternatively, contact your local supplier.
CHAMANE®

A broad-spectrum fungicide with translaminar, systemic and protectant activity for use in wheat, barley, triticale, rye, combining & vining peas, and asparagus.

A suspension concentrate containing 250g per litre (23.1% w/w) azoxystrobin.

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Other specific restrictions
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Non-returnable containers must not be re-used for any purpose.

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 (FACE SHIELD) when handling the concentrate.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

ENVIRONMENTAL PROTECTION
Avoid drift onto non-target plants.
Do not contaminate water with the product or its container. Do not clean application equipment near surface water.

PROTECT FROM FROST

Important Information
For use only as a professional agricultural/horticultural fungicide

For 24 hour emergency information contact:
CARECHEM24 : +44 (0) 1235 239670

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Telephone: 01925 819999   Fax: 01925 817425

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