BEFORE USING THIS PRODUCT READ ENTIRE LABEL CAREFULLY

AMISTAR OPTI is classified as

A broad spectrum suspension concentrate fungicide with systemic, transaminating and contact properties for the preventive control of different leaf diseases in crops as listed.

1. WARNINGS:

- Withholding periods: Minimum number of days between last application and harvest.
  - Beans .................................................. 14 days
  - Brassica .............................................. 7 days
  - Carrots ............................................... 7 days
  - Celery .................................................. 7 days
  - Cucurbits (excluding patty pans) ............. 3 days
  - Mange tout ......................................... 28 days
  - Onions (green bunching) ......................... 14 days
  - Onions (dry bulb) ................................. 14 days
  - Patty pans .......................................... 28 days
  - Peas ..................................................... 7 days
  - Peppers (bell/sweet/chilli pepper, paprika, pimento, piquante) ................................ 7 days
  - Potatoes .............................................. 7 days
  - Tomatoes ............................................ 7 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits.

- Harmful if inhaled or swallowed.
- Toxic to fish and very toxic to other aquatic organisms.
- Avoid contact with skin or eyes since product may cause eye and skin irritation and skin sensitisation.
- Store in a dry place away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment, or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration label. Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS:

- Do not eat, drink or smoke whilst handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Avoid contact with skin or eyes and inhalation of spray mist.
- Wear rubber gloves and a face shield when handling the product. If you get product in your eyes, flush it out at once. If you get it on your skin, wash it off at once. If you spill it on your clothes, change and wash them.
- Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsing to the contents of the spray tank before destroying the container.
- While spraying, avoid contact with the spray as much as possible.
- Avoid spray drift onto other crops, grazing, rivers or dams.
- Clean applicator thoroughly after use and dispose of cleansing water where it will not contaminate crops, grazing, rivers or dams.
- Destroy empty container and do not use for any other purpose.
- Change and wash your work clothes. Wash yourself.

3. RESISTANCE MANAGEMENT

For resistance management, AMISTAR OPTI is classified as a group code 11 and M fungicide. Any fungus population may contain individuals naturally resistant to AMISTAR OPTI and other group code 11 and M fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by AMISTAR OPTI or any other group code 11 and M fungicides.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate with products from different fungicide group codes.
- Refer to individual product labels when alternating products or when using tank mixtures.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

General:

- AMISTAR OPTI should always be applied preventively as prescribed in the recommendations table.
- AMISTAR OPTI must be applied as a full cover spray.
- Do not reduce the dosage rates below that recommended on the label.
- Never use AMISTAR OPTI as a corrective or curative treatment or after the unsuccessful application of any product.
- For specific information on resistance management contact the registration holder of this product (Syngenta South Africa) or visit the FRAC website at http://www.frac.info/frac/index.html

4. DIRECTIONS FOR USE:

Use only as indicated.
4.1 Compatibility:

AMISTAR OPTI is not compatible with products containing heavy metals. The compatibility of AMISTAR OPTI with other products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Syngenta and the quality of water may vary from farm to farm, a physical compatibility test and small scale testing should always be carried out prior to application.

4.2 Mixing instructions:

Half fill the spray tank with clean water. Add the required amount of AMISTAR OPTI to the spray tank and top up with water to the required volume while agitating continuously. If AMISTAR OPTI needs to be used in tank mix combinations, first mix small quantities of the chemicals separately with water. Add these mixtures together while agitating and check for any signs of incompatibility e.g. flocculation etc. In this instance, full cognisance must be taken of all warnings, precautions and directions for use on that label. Continue agitation throughout application and do not allow the tank mixture to stand still for any period of time.

4.3 Application:

Ensure that the applicator to be used is in a good working condition and correctly calibrated. Use the spray volumes as indicated to ensure good coverage. Ensure thorough agitation of the mixture in the tank during mixing and spraying.

Influence of rain on application:

Should it rain within two hours after application, the application must be repeated.

4.3.1 Ground Application

AMISTAR OPTI may be applied with conventional high volume spray equipment. Calibrate the apparatus before application to ensure that the correct dosage is applied. The distribution of the spray volume must be uniform throughout the target area.

4.3.2 Aerial application:

Avoid chemical drift at all times

Aerial application of AMISTAR OPTI may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria are met:

a) Application parameters:

- **Volume**: A volume of 30 - 40 l water/ha is recommended in maize. As AMISTAR OPTI has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy or be held responsible for any adverse effects if the product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage**: Droplet coverage of 25 - 35 droplets per cm² must be recovered at the target.
- **Droplet size**: A droplet spectrum with a VMD of 280 - 300 microns is recommended. Ensure that the production of fine droplets (less than 150 microns - high drift & evaporation potential) is restricted to a minimum.
- **Flying height**: The height of the spray boom should be maintained at 3 - 4 metres above the target. Do not spray when aircraft is in a climb, at the top or during a dive, or when banking.

b) Equipment:

- Use suitable application equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product either through enddrift (within target field) or exodrift (outside target field).
- The operator must use a setup that will produce a droplet spectrum with the lowest possible Relative Span.
- All nozzles / atomisers should be positioned within the inner 60% to 75% of the wingspan to prevent droplets from entering the wingtip vortices.

4.4 RECOMMENDATIONS:

For the best results, study the sections under 3 and 4.1 to 4.3 thoroughly.

4.4.1 BEANS (Broad bean, dry bean, kidney bean, blackeyed pea, lupine) (except soybean)

<table>
<thead>
<tr>
<th>CROP / DISEASE</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEANS</strong></td>
<td>Ground and aerial application: 1.8 - 2.8 l/ha</td>
</tr>
<tr>
<td>Anthracnose (Colletotrichum lindemuthianum)</td>
<td></td>
</tr>
<tr>
<td>Alternaria blight (Alternaria spp.)</td>
<td></td>
</tr>
<tr>
<td>Alternaria leaf spot (Alternaria alternata)</td>
<td></td>
</tr>
<tr>
<td>Ascochyta leaf spot (Ascochyta phaseolorum)</td>
<td></td>
</tr>
<tr>
<td>Ascochyta blight (Mycosphaerella pinodes)</td>
<td></td>
</tr>
<tr>
<td>Ascochyta leaf and pod spot (Ascochyta spp.)</td>
<td></td>
</tr>
<tr>
<td>Bean rust (Phakopsora spp.)</td>
<td></td>
</tr>
<tr>
<td>Web blight (Rhiocotonia solani)</td>
<td></td>
</tr>
</tbody>
</table>
4.4.2 Brassica

**CROP / DISEASE** | **DOSE**
---|---
Brassica | Ground application: 3.125 l/ha
**REMARKS:**
- Apply up to three (3) sprays 7 days apart when the weather favours the disease.
- Do not make more than three (3) applications of AMISTAR OPTI per season.

**Spray volume:**
- Tractor application: 450 - 700 l/ha

4.4.3 Carrots

**CROP / DISEASE** | **DOSE**
---|---
Carrots | Ground and aerial application: 2.9 l/ha
**REMARKS:**
- Do not apply more than two (2) foliar applications of AMISTAR OPTI or other strobilurins (Qol Group 11 Fungicides) before alternating with a fungicide that has a different mode of action.
- Do not make more than six (6) foliar applications of AMISTAR OPTI or other Qol Group 11 fungicides per crop per year.
- Applications should begin prior to disease development and continue throughout the season every 7 days.
- Do not apply AMISTAR OPTI with wetting agents.

**Spray volume:**
- Tractor application: Use at least 200 - 750 l/ha

4.4.4 Celery

**CROP / DISEASE** | **DOSE**
---|---
Celery | Ground and aerial application: 2.8 - 4 l/ha
**REMARKS:**
- Do not apply more than two (2) foliar applications of AMISTAR OPTI or other strobilurins (Qol Group 11 Fungicides) before alternating with a fungicide that has a different mode of action.
- Do not make more than six (6) foliar applications of AMISTAR OPTI or other Qol Group 11 fungicides per crop per year.
- Applications should begin prior to disease development and continue throughout the season every 7 days.
- Do not apply AMISTAR OPTI with wetting agents.

**Spray volume:**
- Tractor application: Use at least 200 - 750 l/ha

4.4.5 Cucurbits (Cucumber, gherkins, melons, watermelon, pumpkin, squash, zucchini, patty pans)

**CROP / DISEASE** | **DOSE**
---|---
Cucurbits | Ground application: 2.8 l/ha
**REMARKS:**
- Apply up to three (3) sprays 7 days apart when the weather favours the disease.
- Do not apply AMISTAR OPTI with wetting agents.
- Do not make more than three (3) applications of AMISTAR OPTI per season.

**Spray volume:**
- Tractor application: Use at least 200 - 750 l/ha

4.4.6 Groundnuts

**CROP / DISEASE** | **DOSE**
---|---
Groundnuts | Ground application: 1.7 l/ha
**REMARKS:**
- Do not exceed two (2) applications of AMISTAR OPTI per season.

**Spray volume:**
- Tractor application: 300 - 400 l/ha
### 4.4.7 ONIONS (Green bunching and dry bulb) (Leek, shallot, garlic)

<table>
<thead>
<tr>
<th>CROP / DISEASE</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Downey mildew</td>
<td>Ground and aerial application: 2.8 - 4.0 l/ha</td>
</tr>
<tr>
<td>(Peronospora destructor)</td>
<td></td>
</tr>
<tr>
<td>Purple blotch</td>
<td>Ground and aerial application: 1.8 - 3.7 l/ha</td>
</tr>
<tr>
<td>(Alternaria porri)</td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS:**
- Do not apply more than two (2) foliar applications of AMISTAR OPTI or other strobilurins (Qol Group 11 Fungicides) before alternating with a fungicide that has a different mode of action.
- Do not make more than three (3) foliar applications of AMISTAR OPTI or other Qol Group 11 fungicides per crop per year.
- Applications should begin prior to disease development and continue throughout the season every 7 days following the resistance management guidelines.
- For downey mildew control, use a 5-7 day spray interval.
- Use sufficient water to obtain thorough coverage of tops.
- Do not apply AMISTAR OPTI with wetting agents.

**Spray volume:**
- Tractor application: Use at least 200 - 750 l/water/ha.

### 4.4.8 PEAS AND MANGE TOUT

<table>
<thead>
<tr>
<th>CROP / DISEASE</th>
<th>DOSAGE RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEAS and MANGE TOUT</td>
<td>Ground application: 2.5 l/ha</td>
</tr>
<tr>
<td>Ascochyta blight</td>
<td></td>
</tr>
<tr>
<td>(Ascochyta spp.)</td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS:**
- Apply in a spray programme every 10 - 14 days from early flowering or at the first signs of disease.
- Do not apply AMISTAR OPTI later than the end of flowering.
- Do not exceed two (2) applications of AMISTAR OPTI per season.

**Spray volume:**
- Tractor application: 500 - 1000 l/water/ha

### 4.4.9 PEPPERS (bell/sweet/chilli pepper, paprika, pimento, piquante)

<table>
<thead>
<tr>
<th>CROP / DISEASE</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEPPERS</td>
<td>Ground application: 250 ml/100 l/water</td>
</tr>
<tr>
<td>Powdery mildew (Leveillula taurica)</td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS:**
- Apply three (3) consecutive sprays 7 days apart starting at flower initiation.
- Applications can be repeated at 14-day intervals, depending on the disease pressure and spray programme being used. If a 14-day interval is used, ensure that an alternate product is used after 7 days, particularly if weather conditions are conducive to disease development.
- Apply in sufficient water volumes to ensure adequate coverage.
- Do not make more than three (3) applications of AMISTAR OPTI per season.

**Spray volume:**
- Tractor application: Use at least 500 l/water/ha.

### 4.4.10 POTATOES

<table>
<thead>
<tr>
<th>CROP / DISEASE</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTATOES</td>
<td></td>
</tr>
<tr>
<td>Early blight</td>
<td>Ground and aerial application: 1.25 l/ha</td>
</tr>
<tr>
<td>(Alternaria solani)</td>
<td></td>
</tr>
<tr>
<td>Powdery mildew</td>
<td>Ground and aerial application: 1.9 l/ha</td>
</tr>
<tr>
<td>(Erysiphe spp.)</td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS:**
- Apply in blocks of two (2) consecutive sprays 7 - 10 days apart when the weather favours the disease.
- Alternatively, applications can be repeated at 14 day intervals, provided that these applications are alternated every 7 days with other products registered for early blight control.
- AMISTAR OPTI alternated with BRAVO 720 in a 7-day cycle will also control late blight (Phytophthora infestans) preventatively.
- Due to reduced efficacy, aerial application is only recommended when prevailing conditions preclude application by tractor.
- Do not exceed six (6) applications per season of AMISTAR OPTI or products containing azoxystrobin.

**Spray volume:**
- Tractor application: 250 - 750 l/water/ha.
- Aerial application: 30 - 40 l/water/ha.

### 4.4.11 TOMATOES

<table>
<thead>
<tr>
<th>CROP / DISEASE</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOMATOES</td>
<td></td>
</tr>
<tr>
<td>Early blight</td>
<td>Ground application: 330 ml/100 l/water</td>
</tr>
<tr>
<td>(Alternaria solani)</td>
<td></td>
</tr>
<tr>
<td>Powdery mildew</td>
<td>Ground and aerial application: 1.9 l/ha</td>
</tr>
<tr>
<td>(Oidiopsis sicula)</td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS:**
- Apply in blocks of two (2) consecutive sprays 7 - 10 days apart when the weather favours the disease.
- Alternatively, applications can be repeated at 14 day intervals, provided that these applications are alternated every 7 days with other products registered for early blight control.
- AMISTAR OPTI alternated with BRAVO 720 in a 7-day cycle will also control late blight (Phytophthora infestans) preventatively.
- Do not exceed six (6) applications per season of AMISTAR OPTI or products containing azoxystrobin.

**Spray volume:**
- Tractor application: 500 - 1400 l/water/ha
- Aerial application: 300 - 750 l/water/ha

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