



syngenta.

Reg. No. **L6230** Act No. 36 of 1947 **N-AR 0713** (Namibia) **W130321** (Botswana)

**A suspension concentrate systemic, translaminar and contact fungicide for the preventative control of different diseases in crops as listed.**



**GROUP 11 FUNGICIDE**

**Active Ingredient:**  
**azoxystrobin (strobilurin)..... 250 g/l**



**WARNING**

**Hazard statement:**

Harmful if inhaled. Very toxic to aquatic life with long-lasting effects.

**Precautionary statements:**

**Prevention:** Avoid breathing dust/fumes/gas/mist/vapours/spray. Use outdoors only or in a well-ventilated area.

**Response:** If inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell. Collect spillage.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

**EMERGENCY TEL NO.:**

**+27 82 446 8946 (Griffon)**



**UN 3082**

Registration holder  
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**1. WARNINGS:**

**Hazard statements:** Harmful if inhaled. Very toxic to aquatic life with long-lasting effects.

**Withholding periods:** Minimum number of days between last application and harvest.

<b>ASPARAGUS</b> .....	<b>100 days</b>
<b>BULB VEGETABLES</b> (Garlic and shallot).....	<b>1 day</b>
<b>BULB VEGETABLES</b> (Onions).....	<b>20 days</b>
<b>BULB VEGETABLES</b> (Leeks).....	<b>3 days</b>
<b>CANOLA</b> .....	<b>30 days</b>
<b>CARROTS</b> .....	<b>1 day</b>
<b>CELERY</b> .....	<b>1 day</b>
<b>CLOVER</b> .....	<b>14 days</b>
<b>CRUCIFERAE</b> (Brassica).....	<b>14 days</b>
<b>CUCURBITS</b> .....	<b>3 days</b>
<b>DRY BEANS</b> .....	<b>45 days</b>
<b>GRAIN SORGHUM</b> .....	<b>14 days</b>
<b>GRASSES</b> .....	<b>8 days</b>
<b>GRASSES</b> (Pasture grass).....	<b>7 days</b>
<b>LEAFY VEGETABLES</b> (Except brassica).....	<b>1 day</b>
<b>LEGUME VEGETABLES</b> (Beans, lentils and peas).....	<b>1 day</b>
<b>MAIZE AND SWEETCORN</b> .....	<b>7 days</b>
<b>NON-GRASS ANIMAL FEEDS</b> (Forage, fodder, straw and hay).....	<b>14 days</b>
<b>OILSEED CROPS</b> (Sunflower).....	<b>30 days</b>
<b>PEPPERS</b> .....	<b>14 days</b>
<b>POTATOES</b> .....	<b>7 days</b>
<b>TOBACCO</b> .....	<b>14 days</b>
<b>TOMATOES</b> .....	<b>7 days</b>
<b>TUBEROUS AND ROOT VEGETABLES:</b>	
<b>LEAVES</b> .....	<b>1 day</b>
<b>TUBEROUS AND CORM VEGETABLES</b> .....	<b>14 days</b>

**NOTE:** Compliance with these withholding periods will ensure that residues do not exceed local maximum residue limits (MRL).

- Harmful if swallowed.
- Toxic to fish and harmful to other aquatic life.
- Avoid contact with skin and eyes since product may cause eye and skin irritation.
- Store 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.

**Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious 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 and the environment, or harm to people or animals 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, that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

**2. PRECAUTIONS:**

**Precautionary statements:** Avoid breathing dust/fumes/gas/mist/vapours/spray. Use outdoors only or in a well-ventilated area. **Response:** If inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell. Collect spillage. **Disposal:** Dispose of contents/container to an approved waste disposal plant.

- Do not eat, drink, or smoke while handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Wear rubber gloves and a face shield when handling the concentrate. If you get it 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 (3) times with a volume of water equal to a minimum

of 10% of that of the container. Add the rinsate to the contents of the spray tank before destroying the container in the prescribed manner.

- 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 wash water where it will not contaminate crops, grazing, rivers, or dams.
- Do not use empty container for any other purpose.
- Change and wash your work clothes. Wash yourself.

### 3. RELEVANT SUBSTANCES:

Chemical name	
azoxystrobin (ISO)	
Classification	Concentration (% w/w)
Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	≥ 20 - < 25

### 4. RESISTANCE MANAGEMENT:

**AMISTAR** is classified as a group code 11 fungicide. Any fungus population may contain individuals naturally resistant to **AMISTAR** and other group code 11 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** or any other group code 11 fungicides.

#### To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank-mix with products from different fungicide group codes.
- Refer to individual product labels when alternating products or when using tank mixtures with products in fungicide group codes 7, 27, 28, 29, 30 and M.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

For specific information on resistance management contact the registration holder of this product or refer to the FRAC guidelines at <http://www.frac.info/frac/index.html>.

#### 4.1 General

- To prevent pathogen populations from becoming resistant to **AMISTAR**, it is essential that applications of **AMISTAR** be alternated with other registered fungicides from a different chemical class than azoxystrobin (strobilurin). This resistance management strategy should not include alternation with or tank mixes of fungicides to which resistance has already developed or fungicides with the same mode of action.
- **AMISTAR** should always be applied preventatively as described in the RECOMMENDATIONS table.
- DO NOT reduce the dosage rates below that which are recommended on the label.
- Never use any of the other strobilurin or strobilurin-related

chemicals in the same program with **AMISTAR**.

- NEVER use **AMISTAR** as a corrective treatment, or after an unsuccessful application of any product.
- DO NOT apply **AMISTAR** at the first or last application in the spray program.

### 5. DIRECTIONS FOR USE: Use only as indicated.

#### 5.1 Compatibility

**AMISTAR** is compatible with KARATE ZEON (L6330) or methamidophos (585 g/l).

#### 5.2 Mixing Instructions

- Half-fill the spray tank with clean water.
- Add the required amount of **AMISTAR** to the spray tank and top-up with water to the required volume while agitating continuously.
- If **AMISTAR** 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.

#### 5.3 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.

##### 5.3.1 Aerial application

Aerial application of **AMISTAR** 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 potatoes and maize. As **AMISTAR** 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:** A droplet coverage of 25 - 35 droplets per cm<sup>2</sup> 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 and 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, during a dive, or when banking.

##### b) Equipment:

- Use suitable atomising 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 endodrift (within target field) or exodrift (outside target field).

- The operator must use a set-up that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles/atomisers should be positioned within the inner 60 - 75% of the wingspan to prevent droplets from entering the wingtip vortices.

c) Meteorological conditions:

- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C. The addition of a suitable anti-evaporant is recommended if the VMD of the droplets is less than 200 - 250 microns.
- Stop spraying if the wind speed exceeds 15 km/h.
- Aerial application of **AMISTAR** must not be done under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur. Also note that the application of this product under temperature inversion conditions (spraying in or above the inversion layer) may lead to the following:
  - Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
  - Damage to other sensitive crops and/or non-target areas through the movement of the suspended spray cloud away from the target field.

**Influence of rain on application:** Should it rain within two (2) hours after application, the application must be repeated.

## 6. RECOMMENDATIONS:

For the best results, study sections 4 and 5 thoroughly. To enhance the activity of **AMISTAR**, apply COMPLEMENT SUPER (L8169) at a rate of 100 ml/ha for most crops unless specifically instructed not to be used.

### ASPARAGUS

Disease	Dosage
<b>Stemphyllium purple spot</b> ( <i>Stemphyllium vesicarium</i> )	<b>Ground and aerial application</b> 500 - 1 000 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as a full-cover preventative spray prior to disease development and continue throughout the season.</li> <li>• Apply two (2) consecutive sprays at 7 - 10-day intervals. Use the higher rate when disease pressure is high.</li> <li>• DO NOT apply more than two (2) applications of <b>AMISTAR</b> before alternating with a fungicide in a different chemical class.</li> <li>• DO NOT apply more than six (6) applications of <b>AMISTAR</b> per crop per season.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li>• <b>Ground application:</b> Use a minimum of 100 l/ha</li> <li>• <b>Aerial application:</b> Use a minimum of 30 l/ha</li> </ul>	

### BULB VEGETABLES

(Garlic and shallot)

Disease	Dosage
<b>Foliar diseases</b> <b>Purple blotch</b> ( <i>Alternaria porri</i> )	<b>Ground and aerial application</b>

### BULB VEGETABLES cont.

<b>Rust</b> ( <i>Puccinia allii</i> )	500 - 870 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as a full-cover preventative spray.</li> <li>• Apply two (2) consecutive sprays 7 - 14 days apart when risk of disease development is high and use the higher rate when disease pressure is high.</li> <li>• DO NOT apply more than six (6) applications of <b>AMISTAR</b> in the same season.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li>• <b>Ground application:</b> Apply in 200 - 700 l water/ha depending on the growth stage of the plants.</li> <li>• <b>Aerial application:</b> Use the highest rate to ensure adequate disease control.</li> </ul>	
<b>Downy mildew</b> ( <i>Peronospora destructor</i> ) <b>Botrytis leaf blight</b> ( <i>Botrytis aclada</i> )	<b>Ground and aerial application</b> 660 - 1 100 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• For downy mildew, make preventative applications on a 5 - 7-day schedule.</li> <li>• Follow the rest of the information as for foliar diseases.</li> </ul>	
<b>Soil-borne diseases</b> <b>Rhizoctonia damping-off</b> ( <i>Rhizoctonia solani</i> )	<b>In-furrow or banded application</b> 4 - 8 ml/100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>• For in-furrow treatment, apply just before seed placement.</li> <li>• Apply preferably as a banded application applied at plant emergence or during herbicide application.</li> <li>• Alternatively, apply as an in-furrow application at planting just before seed is covered. Apply in a volume of 10 - 30 l water/ha.</li> <li>• Follow the rest of the information as for foliar diseases.</li> </ul>	

### BULB VEGETABLES

(Onions and leeks)

Disease	Dosage
<b>Foliar diseases</b> <b>Purple Blotch</b> ( <i>Alternaria porri</i> ) <b>Stemphyllium leaf blotch</b> ( <i>Stemphyllium vesicarium</i> )	<b>Ground application</b> 400 ml/ha
<b>Downy mildew</b> ( <i>Peronospora destructor</i> ) <b>Botrytis leaf blight</b> ( <i>Botrytis aclada</i> ) <b>Rust</b> ( <i>Puccinia allii</i> )	<b>Ground application</b> 400 - 870 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as a full-cover preventative spray.</li> <li>• Apply two (2) consecutive sprays 14 days apart, starting when leaf bases begin to thicken or later in the season when risk of disease development is high.</li> <li>• Apply in sufficient water volumes to ensure adequate coverage.</li> <li>• For downy mildew, apply a preventative application on a 5 - 7-day schedule.</li> <li>• DO NOT apply more than six (6) applications of <b>AMISTAR</b> to onions in the same season.</li> </ul>	
<b>Soil-borne diseases</b> <b>Rhizoctonia damping-off</b> ( <i>Rhizoctonia solani</i> )	<b>In-furrow or banded application</b> 4 - 8 ml/100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply preferably as a banded application applied at</li> </ul>	

**BULB VEGETABLES** (Onions and leeks) cont.

- plant emergence or during herbicide application.
- Alternatively apply as an in-furrow application at planting just before seed is covered. Apply in a volume of 10 - 30 ℓ water/ha. Apply the higher dosage when conditions are conducive to disease development.
  - Follow the rest of the information as for foliar diseases.

**Note:**

Due to the waxy nature of the leaves, it is recommended that **AMISTAR** be applied with COMPLEMENT SUPER at a rate of 0.25% to ensure adequate coverage and subsequent disease control.

**CANOLA**

Disease	Dosage
<b>Blackleg</b> ( <i>Leptosphaeria maculans</i> ) <b>Alternaria blackspot</b> ( <i>Alternaria</i> spp.) <b>Sclerotinia stem rot</b> ( <i>Sclerotinia sclerotiorum</i> )	<b>Ground application</b> 500 - 1 000 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as a full-cover preventative spray.</li> <li>DO NOT apply more than three (3) applications of <b>AMISTAR</b> in the same season.</li> <li>DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> <li>Generally, apply 500 mℓ/ha <b>AMISTAR</b> at early bud, followed by 1 000 mℓ/ha 45 days before harvest. A third application of 500 mℓ/ha can be made 30 days before harvest. Use the higher rate under conditions of high disease pressure.</li> <li>Targeted disease control:               <ul style="list-style-type: none"> <li>For blackleg, applications should be made at the 2 - 4-leaf stage.</li> <li>For <i>Alternaria</i> and <i>Sclerotinia</i> control, 660 - 1 000 mℓ/ha should be applied at 10 - 25% flowering (7 - 10 days following first flowering).</li> <li>For the control of <i>Alternaria</i> alone, apply 580 mℓ/ha at pod stage (95% petal fall).</li> </ul> </li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> Use a minimum water volume of 100 ℓ/ha.</li> </ul>	

**CARROTS**

Disease	Dosage
<b>Leaf blight</b> ( <i>Cercospora carotae</i> ) ( <i>Alternaria dauci</i> ) <b>White mould</b> ( <i>Sclerotium rolfsii</i> )	<b>Ground and aerial application</b> 500 - 1 000 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as a full-cover preventative spray.</li> <li>Apply two (2) consecutive sprays seven (7) days apart when the weather favours the disease and use the higher rate when disease pressure is high.</li> <li>DO NOT apply more than three (3) applications of <b>AMISTAR</b> in the same season.</li> <li>Apply in a spray program together with RIDOMIL GOLD FLO and BRAVO 720.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> Apply in 450 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li><b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	

**CARROTS** cont.

<b>Soil-borne diseases</b> <b>Rhizoctonia root rot</b> ( <i>Rhizoctonia solani</i> )	<b>In-furrow or banded application</b> 4 - 8 mℓ/100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply preferably as a banded application applied at plant emergence or during herbicide application. Alternatively apply as an in-furrow application at planting just before seed is covered. Apply in a volume of 10 - 30 ℓ water/ha. Apply the higher dosage when conditions are conducive to disease development.</li> <li>DO NOT apply more than three (3) applications of <b>AMISTAR</b> in the same season.</li> <li>DO NOT apply more than two (2) consecutive applications of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> </ul>	

**CELERY**

Disease	Dosage
<b>Early blight</b> ( <i>Cercospora apii</i> ) <b>Late blight</b> ( <i>Septoria apicola</i> )	<b>Ground and aerial application</b> 660 - 1 000 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as a full-cover preventative spray.</li> <li>Apply 7 - 10 days apart when the weather favours the disease and use the higher rate when disease pressure is high.</li> <li>DO NOT apply more than six (6) applications of <b>AMISTAR</b> in the same season.</li> <li>DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> Apply in 200 - 700 ℓ water/ha.</li> <li><b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Soil-borne diseases</b> <b>Rhizoctonia root rot</b> ( <i>Rhizoctonia solani</i> )	<b>In-furrow or banded application</b> 4 - 8 mℓ/100m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply preferably as a banded application at plant emergence or during herbicide application.</li> <li>Alternatively, apply as an in-furrow application at planting just before seed is covered.</li> <li>Apply the higher dosage when conditions are conducive to disease development.</li> <li>DO NOT apply more than six (6) applications of <b>AMISTAR</b> in the same season.</li> <li>DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li>Apply in a volume of 10 - 30 ℓ water/ha.</li> </ul>	

**CLOVER**

Disease	Dosage
<b>Rust</b> ( <i>Phakopsora</i> spp.) <b>Alternaria leaf spot</b> ( <i>Alternaria</i> spp.) <b>Cercospora leaf spot</b> ( <i>Cercospora</i> spp.) <b>Powdery mildew</b> ( <i>Oidium</i> spp.)	<b>Ground and aerial application</b> 500 - 1 000 mℓ/ha



**CLOVER** cont.

<i>(Erysiphe spp.)</i> <b>Downy mildew</b> <i>(Peronospora spp.)</i> <b>Sclerotinia crown rot and wilt</b> <i>(Sclerotinia trifoliorum)</i>	<b>Ground and aerial application</b> 500 - 1 000 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as a full-cover preventative spray.</li> <li>• Apply 7 - 14 days apart when the weather favours the disease and continue throughout the season and use the higher rate when disease pressure is high.</li> <li>• DO NOT apply more than four (4) applications of <b>AMISTAR</b> in the same season.</li> <li>• DO NOT apply more than two (2) sequential applications of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> <li>• For pure stand of clover or clover stands mixed with grasses, DO NOT apply more than 840 g/ha of <b>AMISTAR</b>.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li>• <b>Ground application:</b> Apply in 200 - 700 ℓ water/ha.</li> <li>• <b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	

**CRUCIFERAE**

(Brasica: Broccoli, brussel sprouts, cabbage, cauliflower, kale and cultivars and hybrids of these)

Disease	Dosage
<b>White blister</b> <i>(Albugo candida)</i>	<b>Ground application</b> 500 - 1 000 mℓ/ha
<b>Alternaria leaf spot</b> <i>(Alternaria spp.)</i> <b>Pin rot</b> <i>(Alternaria spp.)</i> <b>Black spot</b> <i>(Alternaria spp.)</i> <b>Cercospora leaf spot</b> <i>(Cercospora spp.)</i>	<b>Ground or aerial application</b> 500 - 1 000 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as a full-cover preventative spray.</li> <li>• Apply two (2) consecutive sprays seven (7) days apart when the weather favours the disease.</li> <li>• Use the higher rate when disease pressure is high.</li> <li>• <b>AMISTAR</b> can be used in a spray program with RIDOMIL GOLD FLO (L6669) and BRAVO 720 (L7005).</li> <li>• DO NOT apply more than three (3) applications of <b>AMISTAR</b> in the same season.</li> <li>• DO NOT apply more than two (2) consecutive applications of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li>• <b>Ground application:</b> Apply in 450 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li>• <b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	

**CUCURBITS**

(Cucumber, melon, muskmelon, watermelon, pumpkin, squash, zucchini and all hybrids and cultivars of these)

Disease	Dosage
<b>Anthraxnose</b> <i>(Colletotrichum lagenarium)</i> <b>Belly rot</b> <i>(Rhizoctonia solani)</i> <b>Downy mildew</b> <i>(Pseudoperonospora cubensis)</i> <b>Leaf spot</b> <i>(Alternaria spp.)</i>	<b>Ground and aerial application</b> 400 - 500 mℓ/ha

**CUCURBITS** cont.

<i>(Cercospora spp.)</i> <b>Powdery mildew</b> <i>(Sphaerotheca fuliginea)</i> <i>(Erysiphe cichoracearum)</i>	<b>Ground and aerial application</b> 400 - 500 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Application should start prior to disease development, starting at flower initiation to fruit maturity.</li> <li>• Apply seven (7) days apart in sufficient water volumes to ensure adequate coverage.</li> <li>• For downy mildew and powdery mildew, make preventative applications on a 5 - 7-day schedule.</li> <li>• For belly rot control, the first application should be made at the 1 - 3-leaf stage with a second application prior to vine tip over, or 10 - 14 days later, whichever occurs first.</li> <li>• DO NOT apply more than four (4) applications of <b>AMISTAR</b> to cucurbits in the same season.</li> <li>• DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> <li>• An adjuvant may be added at specific rates but DO NOT tank-mix <b>AMISTAR</b> with COC, MSO or silicon adjuvants.</li> <li>• DO NOT apply <b>AMISTAR</b> with any wetting agents such as COMPLEMENT (L4853).</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li>• <b>Ground application:</b> Apply a volume of 300 - 1 000 ℓ/ha depending on the stage of growth.</li> <li>• <b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Rhizoctonia seedling blight</b> <i>(Rhizoctonia solani)</i>	<b>In-furrow application</b> 4 - 8 mℓ/100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as an in-furrow spray at planting just before seed is covered. Apply the higher dosage when conditions are conducive to disease development.</li> <li>• Follow the rest of the information as specified in the section above.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li>• Apply in a volume of 10 - 30 ℓ water/ha.</li> </ul>	

**DRY BEANS**

Disease	Dosage
<b>Anthraxnose</b> <i>(Colletotrichum lindemuthianum)</i>	<b>Ground application</b> 400 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as a full-cover preventative spray.</li> <li>• Apply two (2) consecutive sprays 14 days apart starting at flower initiation.</li> <li>• Apply in sufficient water volumes to ensure adequate coverage.</li> <li>• For optimal fungal disease control, apply in a spray program together with SCORE.</li> <li>• This rate of <b>AMISTAR</b> will also control rust (<i>Uromyces appendiculatus</i>) if present. (Refer to resistance management strategy.)</li> <li>• DO NOT apply more than two (2) applications of <b>AMISTAR</b> to dry beans in the same season.</li> </ul>	

**GRAIN SORGHUM**

Disease	Dosage
<b>Anthraxnose</b> <i>(Colletotrichum graminicola)</i> <b>Grey leaf spot</b> <i>(Cercospora sorghi)</i>	<b>Ground and aerial application</b> 500 - 1 000 mℓ/ha

## GRAIN SORGHUM cont.

<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as a full-cover preventative spray.</li> <li>Apply in sufficient water volumes to ensure adequate coverage.</li> <li>An adjuvant may be added at specific rates.</li> <li>DO NOT apply more than three (3) applications of <b>AMISTAR</b> to the same crop in the same season.</li> <li>DO NOT apply more than two (2) sequential applications of <b>AMISTAR</b> before alternating with a fungicide in a different chemical group.</li> </ul>	
<b>Soil-borne diseases</b> <b>Damping-off</b> <i>(Rhizoctonia solani)</i> <i>(Pythium aphanidermatum)</i>	<b>In-furrow or banded application</b> 4 - 8 ml/100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply preferably as a banded application at plant emergence or during herbicide application.</li> <li>Alternatively, apply as an in-furrow application at planting just before seed is covered. Apply in a volume of 10 - 30 ℓ water/ha.</li> <li>Apply the higher dosage when conditions are conducive to disease development.</li> </ul>	

## GRASSES

(Grown for seed)

Disease	Dosage
<b>Rust</b> <i>(Puccinia spp.)</i> <b>Powdery mildew</b> <i>(Erysiphe graminis)</i> <b>Ergot stem diseases</b>	<b>Ground and aerial application</b> 440 - 1 100 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply <b>AMISTAR</b> prior to disease development and repeat application at 10 - 14-day intervals.</li> <li>DO NOT apply more than two (2) sequential applications of <b>AMISTAR</b> before alternating with a fungicide in a different resistance class.</li> <li>DO NOT apply more than three (3) applications of <b>AMISTAR</b> per season.</li> <li>An adjuvant may be added at specific registered rates.</li> <li>DO NOT feed treated straw, seed, or screenings to livestock.</li> </ul>	

## GRASSES

[Pastures: ryegrass (*Lolium sp.*)]

Disease	Dosage
<b>Grey leaf spot/blast</b> <i>Pyricularia grisea</i>	<b>Ground application</b> 600 - 1 200 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply one (1) application of <b>AMISTAR</b> prior to disease development at early plant establishment stage.</li> </ul>	

## LEAFY VEGETABLES

(Except brassica. Including edible chrysanthemum, coriander, corn salad, dandelion, fennel, lettuce head and leaf, parsley and spinach)

Disease	Dosage
<b>Foliar diseases</b> <b>Alternaria leaf spot</b> <i>(Alternaria spp.)</i> <b>Anthracnose</b> <i>(Colletotrichum dermatium)</i> <b>Cercospora leaf spot</b> <i>(Cercospora spp.)</i>	<b>Ground and aerial application</b> 500 ml/ha

## LEAFY VEGETABLES cont.

<b>Septoria leaf spot</b> <i>(Septoria petroselinii)</i>	<b>Ground and aerial application</b> 500 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Application should start prior to disease development and continue throughout the season at 7 - 10-day intervals.</li> <li>DO NOT apply more than six (6) foliar applications of <b>AMISTAR</b> to the same crop in a year.</li> <li>DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> <li>Under certain circumstances, <b>AMISTAR</b> applied to foliar regions of leafy vegetables may contribute to phytotoxic symptoms.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> Apply in 200 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li><b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Downy mildew</b> <i>(Bremia lactucae)</i> <b>Powdery mildew</b> <i>(Erysiphe cichoracearum)</i>	<b>Ground and aerial application</b> 800 - 1 000 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Application should start prior to disease development and continue throughout the season on a 5 - 7-day schedule.</li> <li>DO NOT apply more than six (6) foliar applications of <b>AMISTAR</b> to the same crop in a year.</li> <li>DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> <li>Under certain circumstances, <b>AMISTAR</b> applied to foliar regions of leafy vegetables may contribute to phytotoxic symptoms.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> Apply in 200 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li><b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Rhizoctonia seedling blight</b> <i>(Rhizoctonia solani)</i>	<b>In-furrow application</b> 4 - 8 ml/ 100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as an in-furrow spray at planting just before seed is covered.</li> <li>Apply in a volume of 10 - 30 ℓ water/ha and apply the higher dosage when conditions are conducive to disease development.</li> </ul>	

## LEGUME VEGETABLES

[Dry, succulent and legume vegetables as well as foliage of field pea and bean cultivars, *lupinus* spp., *phaseolus* spp. and *vigna* spp.; broad beans (fava bean); chickpeas (*pisum* spp.) and lentils]

Disease	Dosage
<b>Alternaria blight</b> <i>(Alternaria spp.)</i> <b>Alternaria leaf spot</b> <i>(Alternaria alternata)</i> <b>Anthracnose</b> <i>(Colletotrichum lindemuthianum)</i> <b>Ascochyta blight</b> <i>(Mycosphaerella pinodes)</i> <b>Ascochyta leaf spot</b> <i>(Ascochyta phaseolorum)</i>	<b>Ground and aerial application</b> 500 - 1 000 ml/ha



<b>Ascochyta leaf and pod spot</b> <i>(Ascochyta spp.)</i> <b>Rust</b> <i>(Phakopsora spp.)</i> <b>Southern blight</b> <i>(Sclerotium rolfsii)</i> <b>Web blight</b> <i>(Rhizoctonia solani)</i>	<b>Ground and aerial application</b> 500 - 1 000 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Application should start prior to disease development and continue throughout the season at 7 - 10-day intervals.</li> <li>Use the higher rates with severe disease pressure.</li> <li>With rust disease control, a non-ionic surfactant is recommended as an adjuvant.</li> <li>DO NOT apply more than six (6) foliar applications of <b>AMISTAR</b> to the same crop in a year.</li> <li>DO NOT apply more than two (2) sequential applications of <b>AMISTAR</b> before alternating with fungicides in a different chemical group.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> Apply in 200 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li><b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Bean rust</b> <i>(Uromyces appendiculatus)</i>	<b>Ground and aerial application</b> 500 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Application should start prior to disease development and continue throughout the season at 7 - 10-day intervals.</li> <li>Use the higher rates with severe disease pressure.</li> <li>A non-ionic surfactant is recommended as an adjuvant.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> Apply in 200 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li><b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Rhizoctonia root rot</b> <i>(Rhizoctonia solani)</i>	<b>In-furrow application</b> 4 - 8 ml/100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as an in-furrow spray at planting just before seed is covered.</li> <li>Apply in a volume of 11 - 30 ℓ/ha and apply the higher dosage when conditions are conducive to disease development.</li> </ul>	

## MAIZE AND SWEETCORN

- Start application before 3% of the total leaf surface area shows disease symptoms OR when symptoms are present on the basal 3 - 5 leaves.
- With short season hybrids when the first spray was applied after pollination, it will probably be sufficient to control the disease, a second spray might not be necessary.
- AMISTAR** can be used in a spray program with SCORE (L5132).
- DO NOT apply more than two (2) applications of **AMISTAR** to maize in the same season.

When multiple applications are necessary to control the disease, the last application for the season should be done with fungicides from a different chemical group other than strobilurin namely, triazoles (SCORE). Consult the SCORE label for full particulars.

## MAIZE AND SWEETCORN cont.

Disease	Dosage			
<b>Grey leaf spot</b> ( <i>Cercospora zeae-maydis</i> )	<b>Ground and aerial application</b> 400 - 750 ml <b>AMISTAR</b> /ha, <b>or</b> 300 - 500 ml <b>AMISTAR</b> /ha followed by 300 ml SCORE/ha			
<b>Remarks</b> <ul style="list-style-type: none"><li>With medium to long-season hybrids or if the first application was applied within three (3) weeks before pollination, a follow-up application with SCORE must be applied 4 - 5 weeks later.</li></ul>				
<b>Grey leaf spot</b> ( <i>Cercospora zeae-maydis</i> ) <b>Rust</b> ( <i>Puccinia sorghi</i> )	<b>Ground and aerial application</b> 300 - 500 ml <b>AMISTAR</b> /ha followed by 300 - 500 ml <b>AMISTAR</b> /ha followed by 300 ml SCORE/ha			
<b>Remarks</b> <ul style="list-style-type: none"><li>In certain cases where the initial application was applied at a very early stage, a third application might be necessary.</li><li>In this case the first two (2) applications are made with <b>AMISTAR</b> at intervals of 4 - 5 weeks.</li><li>The last application must be done with SCORE 4 - 5 weeks after the second application.</li></ul>				
<b>Spray volumes</b> <ul style="list-style-type: none"><li><b>Tractor application:</b> 300 - 450 ℓ water/ha</li><li><b>High-clearance tractor application:</b> 150 - 300 ℓ water/ha</li><li><b>Aerial application:</b> 40 ℓ water/ha</li><li><b>Knapsack sprayer application:</b> 60 - 70 ℓ water/ha</li></ul>				
<b>Suggested spray program</b>				
No. of app/season	No. of <b>AMISTAR</b> app/season	<b>AMISTAR</b> rate: product/ha	No. of triazole app/season	SCORE rate: product/ha
1	1	400 - 750 ml	0	N/A
2	1	300 - 500 ml	1	Registered rate
3	2	300 - 500 ml	1	Registered rate

## NON-GRASS ANIMAL FEED FORAGE, FODDER, STRAW AND HAY

(Alfalfa)

Disease	Dosage
<b>Rust</b> <i>(Phakopsora spp.)</i> <b>Alternaria leaf spot</b> <i>(Alternaria spp.)</i> <b>Cercospora leaf spot</b> <i>(Cercospora spp.)</i> <b>Powdery mildew</b> <i>(Oidium spp./Erysiphe spp.)</i> <b>Downy mildew</b> <i>(Peronospora spp.)</i>	<b>Ground and aerial application</b> 500 - 1 000 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply prior to disease development and continue throughout the season.</li> <li>Use the higher rates under severe disease pressure.</li> <li>DO NOT use in rangeland.</li> <li>DO NOT apply more than 280 g/ha per cutting.</li> </ul>	

## NON-GRASS ANIMAL FEED FORAGE, FODDER, STRAW AND HAY cont.

- For pure stands or mixed stands with grasses, DO NOT apply more than 840 g/ha per season.
- DO NOT apply more than two (2) sequential applications of **AMISTAR** before alternating with a fungicide in a different chemical group.

### Spray volume

- Ground application:** 200 - 700 ℓ water/ha depending on the growth stage of the plants.
- Aerial application:** Use a minimum of 30 ℓ/ha.

## OILSEED CROPS

(Sunflower)

Disease	Dosage
<b>Alternaria leaf diseases</b> ( <i>Alternaria</i> spp.) <b>Downy mildew</b> ( <i>Plasmopara halstedii</i> )	<b>Ground and aerial application</b> 500 - 1 000 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply prior to disease development.</li> <li>Apply 500 mℓ at early bud, followed by 1 000 mℓ approximately 45 days before harvest.</li> <li>A third application of 500 mℓ may be made 30 days before harvest.</li> <li>DO NOT apply more than two (2) sequential applications of <b>AMISTAR</b> before alternating with a fungicide in a different chemical group.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> Use a minimum of 100 ℓ water/ha.</li> <li><b>Aerial application:</b> 40 ℓ water/ha.</li> </ul>	

## PEPPERS

(Sweet peppers, chilli peppers, bell- and non-bell peppers, pepino and piquante)

Disease	Dosage
<b>Powdery mildew</b> ( <i>Leveillula taurica</i> )	<b>Ground application</b> 60 mℓ/100 ℓ water
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as a full-cover preventative spray.</li> <li>Apply two (2) consecutive sprays seven (7) days apart starting at flower initiation.</li> <li>Apply in sufficient water volumes to ensure adequate coverage.</li> <li>Application can be repeated at 14-day intervals, depending on the disease pressure and spray program being used. If a 14-day interval is used, ensure that an alternate product is used after seven (7) days, particularly if weather conditions are conducive to disease development.</li> <li>The total number of <b>AMISTAR</b> applications per season, must not exceed 30% (maximum of six) of the total number of applications in the spray program.</li> </ul>	
<b>Powdery mildew</b> ( <i>Sphaerotheca</i> spp.) <b>Anthraxnose</b> ( <i>Colletotrichum</i> spp.)	<b>Ground application</b> 500 - 1 000 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as a full-cover preventative spray.</li> <li>Apply at 7 - 10-day intervals and continue throughout the season.</li> <li>An adjuvant may be used at specific rates.</li> <li>DO NOT apply more than one (1) application before alternating with a fungicide in a different chemical group.</li> </ul>	

## PEPPERS cont.

<b>Soil-borne diseases</b> <b>Rhizoctonia seedling rot</b> ( <i>Rhizoctonia solani</i> )	<b>In-furrow or banded application</b> 4 - 8 mℓ/100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply preferably as a banded application at plant emergence or during herbicide application. Alternatively, apply as an in-furrow application at planting just before seed is covered.</li> <li>Apply in a volume of 10 - 30 ℓ water/ha.</li> <li>Apply the higher dosage when conditions are conducive to disease development.</li> </ul>	

## POTATOES

Disease	Dosage
<b>Black scurf</b> ( <i>Rhizoctonia solani</i> ) <b>Silver scurf</b> ( <i>Helminthosporium solani</i> ) <b>Black dot</b> ( <i>Colletotrichum coccodes</i> )	<b>In-furrow application</b> Apply 20 mℓ <b>AMISTAR</b> /100 m row Apply in 1 - 3 ℓ water/100 m row
<b>Suggested spray program for the control of black scurf and silver scurf</b> <ul style="list-style-type: none"> <li>Apply once as an in-furrow spray at planting. Spray a 15 - 20 cm band before seed is covered.</li> <li>Ensure that the water volume is not too high as to wash off previous seed treatments.</li> <li>DO NOT apply <b>AMISTAR</b> if environmental conditions or seed quality favour bacterial rots, as these diseases may be aggravated if seed comes into contact with additional moisture.</li> <li>DO NOT apply <b>AMISTAR</b> if planting in hot, sandy soil as bacterial rots may be aggravated.</li> <li>DO NOT mix with any other products when applying as an in-furrow spray.</li> <li>Harvest potatoes immediately after skin set for effective control of soil-borne diseases.</li> <li>DO NOT keep potatoes in soil for long periods of time.</li> </ul>	
<b>Early blight</b> ( <i>Alternaria solani</i> )	<b>Ground application</b> Use 300 mℓ <b>AMISTAR</b> /ha alternated with BRAVO 720 at 1 - 2 ℓ/ha  <b>Aerial application</b> Use 330 mℓ <b>AMISTAR</b> /ha alternated with BRAVO 720 at 1 - 2 ℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply in a preventative spray program and alternate with BRAVO 720 every seven (7) days. Start application before the disease appears or when weather conditions favour the development of the disease. Ensure good coverage.</li> <li>DO NOT apply <b>AMISTAR</b> when the disease is already present. In this case, an appropriate systemic product should be applied.</li> <li>Apply at least two (2) applications with a systemic product (e.g., SCORE or RIDOMIL GOLD FLO), then return to the preventative spray program as suggested.</li> <li>The total number of <b>AMISTAR</b> applications per season, must not exceed 30% (normally three) of the total number of applications in the <b>AMISTAR</b>/BRAVO 720 spray program.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> Use minimum 500 ℓ water/ha.</li> <li><b>Aerial application:</b> Use 30 - 40 ℓ water/ha.</li> </ul>	
<b>Suggested spray program for the control of early and late blight</b> <ul style="list-style-type: none"> <li>The first 2 - 3 applications must be made with BRAVO</li> </ul>	



## POTATOES cont.

720 followed by an **AMISTAR** application seven (7) days later in the early flowering stage. Maintain this 7-day alternating product spray program with BRAVO 720 until a maximum of three (3) **AMISTAR** applications (or equal to a third of the total fungicide applications) have been made. (Refer to resistance management strategy above.) Thereafter, continue with the BRAVO 720 applications throughout the rest of the growing season.

- Do not apply **AMISTAR** as the first or last application in the spray program.
- Apply BRAVO 720 at the rates indicated on the BRAVO 720 label.
- The first 2 - 3 BRAVO 720 applications can be replaced by a RIDOMIL GOLD FLO (L6669) application according to the label.

The suggested spray program on potatoes will also control late blight (*phytophthora infestans*).

## TOBACCO

Disease	Dosage
<b>Frogeye leaf spot</b> ( <i>Cercospora nicotianae</i> ) <b>Target spot</b> ( <i>Rhizoctonia solani</i> )	<b>Ground and aerial application</b> 500 - 1 000 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as part of a full-cover preventative spray program.</li> <li>• If the presence of blue mould is confirmed, apply a curative fungicide application prior to <b>AMISTAR</b>.</li> <li>• Apply <b>AMISTAR</b> at 7 - 10-day intervals.</li> <li>• For ground application, apply with a sufficient volume of water for adequate coverage and canopy penetration. For aerial application, volumes should be 10 - 15 GPA.</li> <li>• DO NOT apply on greenhouse seedlings.</li> <li>• DO NOT apply more than a third of the total number of applications of fungicides in the same season.</li> <li>• DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with a fungicide in a different chemical group.</li> <li>• DO NOT tank mix with EC formulation insecticides due to possible crop injury.</li> </ul>	
<b>NOTE:</b> <b>AMISTAR</b> may enhance weather flecking on the leaves of certain tobacco types. This does not affect yield and quality.	

## TOMATOES

Disease	Dosage
<b>Late blight</b> ( <i>Phytophthora infestans</i> )	<b>Ground application</b> 80 - 120 ml <b>AMISTAR</b> /100 ℓ water alternated with BRAVO 720 at 100 - 380 ml/100 ℓ water according to the disease pressure as specified on the BRAVO 720 label
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply in a preventative spray program and alternate with BRAVO 720 every 7 days. Start application before the disease appears or when weather conditions favour the development of the disease. Ensure good coverage.</li> <li>• DO NOT apply <b>AMISTAR</b> when the disease is already present. In this case, an appropriate systemic product should be applied. Apply at least two (2) applications with a systemic product (e.g., SCORE or RIDOMIL GOLD FLO), then return to the preventative spray program as suggested.</li> <li>• The total number of <b>AMISTAR</b> applications per season, must not exceed 30% (up to six) of the total number</li> </ul>	

## TOMATOES cont.

of applications in the <b>AMISTAR</b> /BRAVO 720 spray program.	
<b>Spray volume</b> <ul style="list-style-type: none"> <li>• <b>AMISTAR</b> and BRAVO 720 should be applied in water volumes of a minimum of 300 ℓ to a maximum of 1 000 ℓ/ha on tomatoes from 10 - 130 cm high respectively.</li> </ul>	
<b>Suggested spray program for tomatoes</b> <ul style="list-style-type: none"> <li>• The first 2 - 3 applications must be made with BRAVO 720 followed by an <b>AMISTAR</b> application 7 days later in the early flowering stage. (<b>AMISTAR</b> may be applied earlier if weather conditions favours infection.) Maintain this 7-day alternating product spray program with BRAVO 720 until a maximum of six (6) <b>AMISTAR</b> applications (or equal to a third of the total fungicide applications) have been made. (Refer to resistance management strategy.) Thereafter, continue with the BRAVO 720 applications throughout the rest of the growing season.</li> <li>• The first 2 - 3 BRAVO 720 applications can be replaced by RIDOMIL GOLD FLO applications according to the label.</li> </ul>	
The suggested spray program on tomatoes will also control early blight ( <i>alternaria solani</i> ).	

## TUBEROUS AND ROOT VEGETABLES: LEAVES

(Garden beet, sugar beet, cassava, ginger, parsley, parsnip, radish and sweet potato)

Disease	Dosage
<b>Foliar diseases</b> <b>Alternaria leaf spot</b> ( <i>Alternaria alternata</i> ) <b>Rust</b> ( <i>Uromyces betae</i> ) ( <i>Puccinia helianthi</i> ) <b>White rust</b> ( <i>Albugo tragopogonis</i> )	<b>Ground and aerial application</b> 500 - 1 000 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as part of a full-cover preventative spray program throughout the season every 7 - 10 days.</li> <li>• DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with a fungicide in a different chemical group.</li> <li>• DO NOT apply more than six (6) applications per crop per season.</li> <li>• DO NOT tank mix with EC formulation insecticides due to possible crop injury.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li>• <b>Ground application:</b> 200 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li>• <b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Cercospora leaf spot</b> ( <i>Cercospora betae</i> ) ( <i>Cercospora pastinaceae</i> ) <b>Powdery mildew</b> ( <i>Erysiphe polygoni</i> ) ( <i>Leveillula taurica</i> )	<b>Ground and aerial application</b> 650 - 1 000 ml/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>• Apply as part of a full-cover preventative spray program throughout the season every 7 - 10 days.</li> <li>• For powdery mildew, make preventative applications on a 5 - 7-day schedule.</li> <li>• DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with a fungicide in a different chemical group.</li> <li>• DO NOT apply more than six (6) applications per crop</li> </ul>	

## TUBEROUS AND ROOT VEGETABLES: LEAVES cont.

<ul style="list-style-type: none"> <li>per season.</li> <li>DO NOT tank mix with EC formulation insecticides due to possible crop injury.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> 200 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li><b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Soil-borne diseases</b> <b>Circular spot/Southern blight</b> <i>(Sclerotium rolfsii)</i> <b>Rhizoctonia stem canker/crown rot</b> <i>(Rhizoctonia solani)</i> <b>Pythium root rot</b> <i>(Pythium aphanidermatum)</i>	<b>In-furrow or banded application</b> 4 - 8 mℓ/100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply preferably as a banded application at plant emergence or during herbicide application. Alternatively, apply as an in-furrow application at planting just before seed is covered.</li> <li>Apply in a volume of 10 - 30 ℓ water/ha. Apply the higher dosage when conditions are conducive to disease development.</li> <li>For sugar beets, apply banded applications at the 2 - 8-leaf stage.</li> </ul>	

## TUBEROUS AND CORM VEGETABLES

(Cassava, ginger and sweet potato)

Disease	Dosage
<b>Foliar diseases</b> <b>Alternaria leaf spot</b> <i>(Alternaria alternata)</i> <b>Rust</b> <i>(Uromyces betae)</i> <i>(Puccinia helianthi)</i> <b>White rust</b> <i>(Albugo tragopogonis)</i>	<b>Ground and aerial application</b> 500 - 1 000 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as part of a full-cover preventative spray program throughout the season every 7 - 10 days.</li> <li>DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with a fungicide in a different chemical group.</li> <li>DO NOT apply more than six (6) applications per crop per season.</li> <li>DO NOT tank mix with EC formulation insecticides due to possible crop injury.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> 200 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li><b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Cercospora leaf spot</b> <i>(Cercospora betae)</i> <i>(Cercospora pastinaceae)</i> <b>Powdery mildew</b> <i>(Erysiphe polygoni)</i> <i>(Leveillula taurica)</i>	<b>Ground and aerial application</b> 650 - 1 000 mℓ/ha
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply as part of a full-cover preventative spray program throughout the season every 7 - 10 days.</li> <li>For powdery mildew, make preventative applications on a 5 - 7-day schedule.</li> <li>DO NOT apply more than one (1) application of <b>AMISTAR</b> before alternating with a fungicide in a different chemical group.</li> </ul>	

## TUBEROUS AND CORM VEGETABLES cont.

<ul style="list-style-type: none"> <li>DO NOT apply more than six (6) applications per crop per season.</li> <li>Never use <b>AMISTAR</b> as a corrective treatment or after an unsuccessful application of any product.</li> <li>DO NOT tank mix with EC formulation insecticides due to possible crop injury.</li> </ul>	
<b>Spray volume</b> <ul style="list-style-type: none"> <li><b>Ground application:</b> 200 - 700 ℓ water/ha depending on the growth stage of the plants.</li> <li><b>Aerial application:</b> Use a minimum of 30 ℓ/ha.</li> </ul>	
<b>Soil-borne diseases</b> <b>Circular spot/Southern blight</b> <i>(Sclerotium rolfsii)</i> <b>Rhizoctonia stem canker/crown rot</b> <i>(Rhizoctonia solani)</i> <b>Pythium root rot</b> <i>(Pythium aphanidermatum)</i>	<b>In-furrow or banded application</b> 4 - 8 mℓ/100 m row
<b>Remarks</b> <ul style="list-style-type: none"> <li>Apply preferably as a banded application at plant emergence or during herbicide application. Alternatively, apply as an in-furrow application at planting just before seed is covered.</li> <li>Apply in a volume of 10 - 30 ℓ water/ha. Apply the higher dosage when conditions are conducive to disease development.</li> </ul>	

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