Cucurbit Protection Solutions

Cucurbit Products Available

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrobat®</td>
<td>Fungicide</td>
</tr>
<tr>
<td>Cabrio®</td>
<td>Fungicide</td>
</tr>
<tr>
<td>Cantus®</td>
<td>Fungicide</td>
</tr>
<tr>
<td>Poast® Ultra</td>
<td>Herbicide</td>
</tr>
<tr>
<td>Pristine®</td>
<td>Fungicide</td>
</tr>
<tr>
<td>Zampro™</td>
<td>Fungicide</td>
</tr>
</tbody>
</table>
## Disease Solutions for Cucurbits

<table>
<thead>
<tr>
<th>Crop</th>
<th>Disease Name</th>
<th>Product</th>
<th>Active Ingredient</th>
<th>Fungicide Group</th>
<th>PHI (days)</th>
<th>REI</th>
<th>Rainfast</th>
<th>Rate (kg or L/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Common</td>
<td>Scientific</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alternaria blight</td>
<td><em>Alternaria cucumerina</em></td>
<td>Cabrio</td>
<td>pyraclostrobin</td>
<td>11</td>
<td>3</td>
<td>12 hrs - 3 days (activity dependent)</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cantus</td>
<td>boscalid</td>
<td>7</td>
<td>0</td>
<td>12 hrs</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pristin</td>
<td>boscalid, pyraclostrobin</td>
<td>7 &amp; 11</td>
<td>0 - 3</td>
<td>12 hrs - 3 days (activity dependent)</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td>Anthracnose</td>
<td><em>Colletotrichum orbiculare</em></td>
<td>Cabrio</td>
<td>pyraclostrobin</td>
<td>11</td>
<td>3</td>
<td>12 hrs - 3 days (activity dependent)</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td>Downy mildew</td>
<td><em>Pseudoperonospora cubensis</em></td>
<td>Acrobat (suppression)</td>
<td>dimethomorph</td>
<td>40</td>
<td>2</td>
<td>12 hrs - 2 days (activity dependent)</td>
<td>2 hrs</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Zampro</td>
<td>ametoctradin, dimethomorph</td>
<td>40 &amp; 45</td>
<td>1</td>
<td>12 hrs - 1 day (activity dependent)</td>
<td>2 hrs</td>
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<tr>
<td></td>
<td>Gummy stem blight</td>
<td><em>Didymella bryoniae</em></td>
<td>Cabrio</td>
<td>pyraclostrobin</td>
<td>11</td>
<td>3</td>
<td>12 hrs - 3 days (activity dependent)</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cantus</td>
<td>boscalid</td>
<td>7</td>
<td>0</td>
<td>12 hrs</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pristin</td>
<td>boscalid, pyraclostrobin</td>
<td>7 &amp; 11</td>
<td>0 - 3</td>
<td>12 hrs - 3 days (activity dependent)</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td>Phytophthora blight</td>
<td><em>Phytophthora capsici</em></td>
<td>Zampro</td>
<td>ametoctradin, dimethomorph</td>
<td>40 &amp; 45</td>
<td>1</td>
<td>12 hrs - 1 day (activity dependent)</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>Powdery mildew</td>
<td><em>Sphaerotheca fuliginea</em></td>
<td>Cabrio</td>
<td>pyraclostrobin</td>
<td>11</td>
<td>3</td>
<td>12 hrs - 3 days (activity dependent)</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Podosphaera xanthii</td>
<td>boscalid, pyraclostrobin</td>
<td>7 &amp; 11</td>
<td>0 - 3</td>
<td>12 hrs - 3 days (activity dependent)</td>
<td>1 hr</td>
</tr>
</tbody>
</table>
## Weed Solutions for Cucurbits

<table>
<thead>
<tr>
<th>Crop Type</th>
<th>Weed Common Name</th>
<th>Product</th>
<th>Active Ingredient</th>
<th>Herbicidal Group</th>
<th>PHI (days)</th>
<th>REI</th>
<th>Rainfast Rate (kg or L/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cucurbit Group</td>
<td>Barnyard grass</td>
<td>Poast Ultra</td>
<td>sethoxydim</td>
<td>1</td>
<td>30</td>
<td>1 hrs</td>
<td>0.32 - 0.47</td>
</tr>
<tr>
<td>Annual grasses</td>
<td>Crabgrass (large)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall panicum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foxtail (green, yellow)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Old witchgrass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Persian darnel</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Proso millet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Volunteer corn</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wild millet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perennial grass</td>
<td>Quackgrass</td>
<td>Poast Ultra</td>
<td>sethoxydim</td>
<td>1</td>
<td>30</td>
<td>1 hrs</td>
<td>0.47 - 1.1</td>
</tr>
</tbody>
</table>
Disease Solution Products for Cucurbits

**Acrobat® 50WP**  
Fungicide

- Highly systemic
- Rapidly rainfast
- Anti-sporulant

**Rate:** 450 g/ha (180 g/ac)

**Timing:** Acrobat must be applied preventatively in combination with a second mode of action effective on Downy mildew on a 7-day schedule. Do not apply more than 2 sequential applications of Acrobat before rotating to a non-Group 40 fungicide.

**Formulation:** Wettable powder

**Packaging:** 1 case consists of 8 x 1.81 kg jugs

**Coverage:** 1 jug treats 4 ha (10 ac)

**Performance**

Acrobat is an anti-sporulant that disrupts cell wall and kills fungi.

**Source:** BASF and University field trials (n=9)

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**Cabrio®**  
Fungicide

- Delivers exceptional disease control, improved growth and stress tolerance
- Systemic
- Rapidly rainfast

**Rate:** 0.56 - 0.84 kg/ha (0.227 - 0.34 kg/ac)

**Timing:** Apply preventatively on a 7-day schedule for Alternaria blight, Anthracnose, Powdery mildew and Gummy stem blight. Do not apply more than 2 sequential applications before alternating with a non-Group 11 mode of action.

**Formulation:** Emulsifiable granule

**Packaging:** 1 case consists of 4 x 2.27 kg jugs

**Coverage:** 1 jug treats 2.7 - 4 ha (6.7 - 10 ac)

**Performance**

Source: BASF and University field trials (n=9)

Always read and follow label directions.
Cantus®
Fungicide

- Effective Alternaria & Gummy stem blight control
- Systemic & rapidly rainfast
- Helps you maximize your marketable yield

**Rate:** 460 g/ha (186 g/acre).

**Timing:** Apply preventatively on a 7-day schedule. Do not apply more than 1 application before alternating with a non-Group 7 fungicide.

**Formulation:** Wettable granule

**Packaging:** 1 case consists of 4 x 2.83 kg jugs

**Coverage:** 1 jug treats 6.15 ha (15.2 ac)

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Pristine®
Fungicide

- Broad-spectrum control of many key diseases
- Locally systemic & rainfast
- Two different modes of action for resistance management
- AgCelence - which may improve stress tolerance and increase yield

**Rate:** 0.9 - 1.3 kg/ha (364 - 526 g/acre)

**Timing:** Apply preventatively on a 7-day schedule. Alternate with a non-Group 7 or Group 11 fungicide.

**Formulation:** Wettable granule

**Packaging:** 1 case consists of 4 x 2.83 kg jugs

**Coverage:** 1 jug treats 2.2 - 3.1 ha (5.4 - 7.8 ac)
**Zampro™ 50WP**  
Fungicide

- Unique, dual mode of action
- Recharges with moisture
- Liquid formulation for easy handling

**Rate:** 0.8 - 1.0 L/ha (0.32 - 0.4 L/ac)

**Timing:** Apply Zampro preventatively on a 5-day schedule. Addition of a penetrating surfactant at 0.125% may improve performance. Do not apply more than twice before alternating to non-Group 40 or 45 fungicides.

**Formulation:** Liquid

**Packaging:** 1 case consists of 4 x 4.41 L jugs

**Coverage:** 1 jug treats 4.41 - 5.51 ha (10.9 - 13.6 ac)

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**Zampro Efficacy - Downy Mildew in Cucurbits**

![Graph showing Zampro Efficacy vs Standard 2.5 kg/ha](image)

Source: BASF and University field trials (n=4)

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**Weed Solution Products for Cucurbits**

**Poast Ultra**  
Herbicide

- Post emergent control of annual and perennial grasses
- Excellent crop safety

**Rate:** 0.32 - 1.1 L/ha (0.129 - 0.445 L/ac)

**Timing:** Apply to 2-5 leaf stage of annual grasses, 1-4 leaf stage of wild oats and volunteer cereals (before tillering), and up to 3 leaf stage of Quackgrass. Apply when weeds are small and actively growing. For Quackgrass, thoroughly till ground to chop up roots. Always add Merge® surfactant at 1% v:v.

**Formulation:** Emulsifiable concentrate

**Packaging:** 1 case consists of 2 x 7.7 L jugs

**Coverage:** 1 jug treats 7 - 24 ha (17.25 - 60 ac)

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Always read and follow label directions.
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