Controlling Alternaria Blight of Zinnia

Alternaria Blight of Zinnia caused by fungus *Alternaria zinniae* is most common disease on Zinnias that can affect stems, foliage, and flowers. Affected leaves show brown spots which coalesce as the disease progresses resulting in dry brown lesions. On flowers, the pathogen can produce dark brown spots that are unsightly in appearance.

A 2012 inoculated study conducted by BAAR Scientific, evaluated ZeroTol 2.0 in controlling Alternaria Blight on red Zinnias. Results showed that **ZeroTol 2.0 increased the overall vigor of the zinnia by 15% and reduced the Percent of Leaf Area with Alternaria blight symptoms by 63% compared to the untreated plants.** This study proves that ZeroTol 2.0 is an acceptable contact fungicide to control Alternaria blight on Zinnias.

Features & Benefits

- Foliar Disease Control
- Works on Contact
- Zero–Hour REI, No Labor Lost
- Increases Spectrum of Activity
- Excellent Resistant Management Tool
- Can Be Tank Mixed
BioSafe Systems recommends ZeroTol 2.0 as an integral part of your Alternaria spray program. ZeroTol 2.0 should be applied as a 1:400 foilar spray once every 5-7 days, but at the first sign/symptom of Alternaria, increase to 1:100 and continue until disease control is achieved. Then increase rate to 1:400.

Figure 1. ZeroTol 2.0 on Alternaria Blight of Zinnia

<table>
<thead>
<tr>
<th>Product</th>
<th>Rate</th>
<th>Application Details</th>
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</thead>
<tbody>
<tr>
<td>ZeroTol 2.0</td>
<td>1.28 fl. oz./gal. (10 mL/L)</td>
<td>Total of 5 spray applications at 7 day intervals</td>
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*Vigor Scale: 10= Most Vigorous