Control diseases and manage resistance in soybeans with Topguard® EQ fungicide, a dual mode of action fungicide premix.

Topguard® EQ fungicide is the only premix combining the benefits of a highly systemic and long-lasting Group 3 fungicide, flutriafol, with a top-of-class Group 11 strobilurin fungicide, azoxystrobin. This unique combination controls a broad spectrum of yield-robbing diseases including strobilurin resistant frogeye leaf spot. In a personal communication with a Virginia Tech pathologist, approximately 25 percent of the frogeye leaf spot samples submitted are strobilurin resistant.

The complementary performance of Topguard EQ fungicide’s individual active ingredients is reflected in the University of Tennessee’s online publication, Management of Soybean Diseases, Foliar Fungicide Efficacy for Control of Foliar Soybean Diseases, June 2017.

<table>
<thead>
<tr>
<th></th>
<th>Flutriafol</th>
<th>Azoxystrobin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>triazole</td>
<td>strobilurin</td>
</tr>
<tr>
<td>FRAC Group</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>Frogeye leaf spot</td>
<td>VG</td>
<td>P</td>
</tr>
<tr>
<td>Cercospora leaf blight</td>
<td>P-G</td>
<td>P</td>
</tr>
<tr>
<td>Anthracnose</td>
<td>VG</td>
<td>VG</td>
</tr>
<tr>
<td>Brown spot</td>
<td>VG</td>
<td>G</td>
</tr>
<tr>
<td>Soybean rust</td>
<td>VG-E</td>
<td>G-VG</td>
</tr>
</tbody>
</table>

¹Performance likely better in non-strobilurin resistant sites.
Source: https://extension.tennessee.edu/publications/Documents/W343.pdf

Target Soybean Diseases:
- Aerial Blight
- Alternaria Leaf Spot
- Anthracnose
- Brown Spot
- Cercospora Blight
- Cercospora leaf blight
- Fungicide Leaf Spot
- Pod and Stem Blight
- Powdery Mildew
- Target Spot
- Rust
- Purple Seed Stain

*Key diseases controlled by Topguard EQ fungicide in bold.*
Topguard® EQ Fungicide’s Systemic Activity

This series of photographs compares leaf uptake and subsequent distribution of Topguard® EQ fungicide vs. difenoconazole, the triazole found in Quadris Top® SBX fungicide. FMC’s patented flutriafol is rapidly taken up by the plant and distributed throughout the leaf to control the spread of disease. All soybean leaves were exposed to Asian soybean rust. The yellow coloration on the leaf icons on the left indicate the point of application.
Increase Soybean Profitability With Topguard® EQ Fungicide

**TOPGUARD EQ FUNGICIDE - A DUAL MODE OF ACTION FUNGICIDE PROVIDING BROAD-SPECTRUM ACTIVITY ON KEY SOYBEAN PATHOGENS**

- Cercospora Leaf Blight
- Purple Seed Stain
- Septoria Brown Spot
- Frogeye Leaf Spot

*Pictures courtesy of University of Illinois, Department of Crop Sciences

**SOYBEAN GUIDELINES (See label for crop rotation restrictions)**

**Rate:** 5–7 fl. oz./A

**Timing:** R1-R5
- For cercospora leaf blight, begin applications at first flower (R1).
- For other diseases, apply beginning at first visible flower or when conditions are favorable for disease development.
- Make additional applications if environmental conditions are favorable for continued disease development.

**Rainfast:** 2 hours

**REI:** 12 hours

**PHI:** 21 days

**Maximum amount/year:** 15.5 fl. oz./A

**Maximum applications:** Three times a year

**Minimum re-treatment interval:** 21 days for rust; 14 days for all other diseases

**Restrictions:**
- Do not feed forage or hay to animals or permit animals to graze.
- Only one application of product at 7 fl. oz./A may be made to any one field during a single growing season.
- Do not apply more than three applications per year.
- Do not apply more than 0.23 lb. a.i. flutriafol per acre per year.
- Do not apply more than 1.5 lbs. a.i. of azoxystrobin per acre per year.
Increase Soybean Profitability With Topguard® EQ Fungicide

Topguard EQ Fungicide - Excellent Control of Frogeye Leaf Spot

**Southern Ag Services General Soybean Fungicide Trial**  
**Dr. Mitchell, Mantee, MS - 2016**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Frogeye Leaf Spot % Severity - AUDPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Untreated Check</td>
<td>719</td>
</tr>
<tr>
<td>Quadris Top® SBX fungicide</td>
<td>96</td>
</tr>
<tr>
<td>Stratego® YLD fungicide</td>
<td>363</td>
</tr>
<tr>
<td>Priaxor®-D fungicide</td>
<td>350</td>
</tr>
<tr>
<td>Aproach® Prime fungicide</td>
<td>213</td>
</tr>
<tr>
<td>Topguard® EQ fungicide</td>
<td>67</td>
</tr>
</tbody>
</table>

AUDPC*: 5 post treatment evaluations (0-9 scale).

*All treatments included NIS (Induce) at 0.25% v/v.

**Yield Bu/A**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield Bu/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check</td>
<td>72</td>
</tr>
<tr>
<td>Quadris Top® SBX fungicide</td>
<td>75</td>
</tr>
<tr>
<td>Stratego® YLD fungicide</td>
<td>71</td>
</tr>
<tr>
<td>Priaxor®-D fungicide</td>
<td>69</td>
</tr>
<tr>
<td>Topguard® EQ fungicide</td>
<td>76</td>
</tr>
</tbody>
</table>

LSD P=0.05

*All treatments included NIS (Induce) at 0.25% v/v.

**Above:** This 2016 fungicide trial was conducted by Dr. Rusty Mitchell, Southern Ag Services, in Mantee, MS. Applications of fungicides were made at the R3 timing to a susceptible frogeye soybean variety, DK-4744. Topguard® EQ fungicide provided the best control of frogeye and had the highest yields versus all other treatments.

Topguard EQ Fungicide + Hero® Insecticide for Soybean Crop Protection

**Soybean Yield Performance Results from 2017 On-Farm Demos**  
**Pennsylvania State University Coop Extension**

**Berks County, PA**

- 5 fl. oz./A Topguard EQ fungicide + 5 fl. oz./A Hero insecticide: 56.6 bu./A
- No treatment: 52.3 bu./A

**Lebanon County, PA**

- 5 fl. oz./A Topguard EQ fungicide + 5 fl. oz./A Hero insecticide: 69.2 bu./A
- No treatment: 61.2 bu./A

**Above:** On-farm demos were conducted in 2017 with the assistance of the local county extension office to test R3 soybean applications with 5 fl. oz./A Topguard EQ fungicide + 5 fl. oz./A Hero insecticide. Under low disease and insect pressure, soybean yield was 8 bu/A higher at the Lebanon County, PA location and 4.3 bu/A higher at the Berks County, PA location.

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