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

Topguard® EQ fungicide, from FMC Agricultural Solutions, 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 broadens the spectrum of diseases for control and offers two modes of action to combat disease resistance.

Topguard EQ fungicide’s two modes of action are distinctly different. Flutriafol provides some of the longest residual control in its class and is very mobile in the plant’s xylem. Once applied, flutriafol rapidly penetrates the waxy layer of the leaf and moves upward throughout the plant to prevent disease onset. Azoxystrobin inhibits fungal respiration, causing the fungal cells to die, and it also reduces plant stress for improved plant health.

These two active ingredients provide long-lasting, preventative and curative control of major plant diseases, including those that have developed resistance to strobilurin fungicides. In-field trials across the U.S., Topguard EQ fungicide performed equal to or better than competitive standards and provided excellent crop safety. Topguard EQ fungicide is an effective dual mode of action fungicide where a strobilurin alone is not enough to combat yield-robbing diseases.

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

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

This series of photographs compares leaf uptake and subsequent plant response to 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 leaf icons on the left indicate the point of application, as shown by the lighter green color.
Increase Soybean Profitability With Fungicides

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

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

### SOYBEAN GUIDELINES

**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.
- Apply additional applications if environmental conditions are favorable for continued disease development.

**REI:** 12 hours

**PHI:** 21 days

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

**Maximum applications:** Three times a year

**Minimum retreatment 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 8 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 Fungicides

Topguard® EQ Fungicide Excellent Control of Frogeye Leaf Spot

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 Excellent Control of Asian Soybean Rust

Above: This 2017 trial was conducted by Dr. Trey Price, Louisiana State University. The fungicide treatments were made at R3 timing. The highest yields were achieved from the R3 timing application with Topguard EQ fungicide treatment yielding 4.1 bu. per acre higher than the untreated.

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