



Foliar Disease Control on Wheat

Foliar Disease Control on Wheat

Foliar diseases can significantly reduce wheat yield and there are not many tools available to control these diseases. Growers have historically relied on resistant varieties to control plant pathogens, but a fungicide is often also required to provide sufficient control. Regalia is registered for Rust, Septoria and Powdery Mildew on wheat, so growers get a broad spectrum of activity with one powerful product.



Features of Regalia:

- New Tool for Resistance Management
- Can Be Applied with Triazoles and Strobilurins
- No Maximum Application Limit
- Pre-Harvest Interval (PHI) = 0 days
- Rainfast in 1 hour
- Tolerance Exempt

Resistance Management

Many wheat fungicides contain either a triazole fungicide (such as propiconazole, tebuconazole, prothioconazole or metconazole) or a strobilurin fungicide (such as azoxystrobin, pyraclostrobin, trifloxystrobin) or both. However, plant diseases are known to quickly become resistant to both triazole and strobilurin fungicides, so they should be rotated with other chemistries in order to prevent the development of resistance (see Compatibility Chart on back). Regalia has a unique mode of action that reduces the development of fungicide resistance. Regalia can be used in combination or rotation with all major fungicide chemistries including strobilurin fungicides (such as Headline®), and triazole fungicides (such as Tilt®, PropiMax®, Proline® and Folicur®).

How Regalia Works

When treated with Regalia, the defense systems of crops are 'switched on' to protect against attacking diseases. Research proves that plants treated with Regalia produce and accumulate elevated levels of specialized proteins and other compounds known to inhibit fungal and bacterial diseases. Regalia induces a plant to produce phytoalexins, cell strengtheners, antioxidants, phenolics, and PR proteins, which are all known inhibitors of plant pathogens.

Tolerance Exempt

The active ingredient in Regalia is exempt from tolerance requirements on all food commodities by the U.S. EPA, and this exemption is published in the Code of Federal Regulations (40CFR180.1259).

Zero Day PHI

Other fungicides used on wheat carry long pre-harvest intervals (PHI) of 30 to 45 days, but Regalia has a 0 day pre-harvest interval so growers can now protect crops until harvest without leaving residues on crops (see chart on back).


Rainfast in One Hour

Regalia is rainfast in only one hour, so growers can get important sprays out and protect crops even in tough weather, or when moisture conditions are conducive to disease development.

Compatibility Chart - Common Regalia Tank Mix Partners

Regalia® is compatible with strobilurins (such as Headline®), triazole fungicides (such as Tilt®, PropiMax®, Proline®, and Folicur®), and many other

classes of pesticide chemistry. If compatibility with another product is unknown, a jar test should be conducted.

Brand Name	Active Ingredient	Triazole Fungicide	Strobilurin Fungicide	PHI (days)	Max Amount/Season	Resistance Risk
Regalia®	Extract of <i>Reynoutria sachalinensis</i>			0	No Max	Low 
Headline®	Pyraclostrobin		✓	14	18 fl.oz.	High
Quadris® Flowable	Azoxystrobin		✓	45	24 fl.oz.	High
Quilt Xcel®	Azoxystrobin + Propiconazole	✓	✓	30	28 fl.oz.	High
Stratego®	Propiconazole + Trifloxystrobin	✓	✓	35	14 fl.oz.	High
Bumper®	Propiconazole	✓		30	8 fl.oz.	Medium
Tilt®	Propiconazole	✓		30	4 fl.oz.	Medium
PropiMax®	Propiconazole	✓		30	8 fl.oz.	Medium
Proline®	Prothioconazole	✓		30	9.37 fl.oz.	Medium
Folicur®	Tebuconazole	✓		30	4 fl.oz.	Medium
Prosaro®	Prothioconazole + Tebuconazole	✓		30	8.2 fl.oz.	Medium

Best Use Recommendations

Wheat fields should be observed closely for early disease symptoms. Apply Regalia at the first observation of rust pustules or symptoms of other diseases. To maximize yields in cereals, it is important to protect the flag leaf. Apply Regalia at 1 qt/acre alone or in combination with a strobilurin or triazole fungicide in a minimum of 10 gallons of water by ground or 5 gallons of water by air immediately after flag leaf emergence. There is no limitation to the number of applications of Regalia that can be applied and Regalia has a zero- day PHI.



www.MarroneBio.com

Can Be Used in Both Conventional and Organic Production

Regalia is recognized as fully compliant for use on organic crops by the National Organic Program (NOP), and is listed by Organic Materials Review Institute (OMRI). Organic growers can now access the same powerful Regalia used by conventional growers.



CAN BE USED IN ORGANIC PRODUCTION



To control disease with powerful Regalia contact your local retailer, or call:

Patrick Clark, NE and Midwest Sales Rep., 215-490-3981
 Jay Osborne, Eastern Territory Manager, 239-207-7168
 Jesse Rosales, Western Territory Manager, 530-304-2030
 Mark Allen, Northern CA and Pac NW, 530-304-9091
 Ryan Hesse, Central Valley CA, 559-799-1659
 David Warman, Director of Sales, 336-202-3433