

BUMPER

# MANA CROP DISEASE CONTROL

FUNGICIDE

# BUMPER®

Propiconazole

**Bumper outscores Tilt® dollar for dollar,  
ounce for ounce, acre for acre!**

Take control of disease in cereals, canola, corn, canaryseed, dry edible bean and soybean (grown for seed). Bumper 418 EC fungicide protects your crops from a wide range of leaf diseases, at a fair price.

**Return on investment:** Research on propiconazole shows disease control in wheat can save as much as 22% in yield, and in barley 14%. As part of an integrated disease control program, and with fair pricing, Bumper really pays!

**Group 3 mode of action:** Bumper has broad-spectrum, systemic activity on leaf diseases. It provides excellent leaf surface protection, and penetrates and translocates within the plant to prevent disease development.

**Protect the flag leaf:** In cereal crops, protecting the flag leaf from disease maximizes yields.

Bumper is particularly effective at protecting the flag leaf with its preventive and systemic actions.

**Resistance management:** Bumper is in the triazole family, which has a lower potential for resistance development than other families of fungicides.

**Easy to use:** Bumper is conveniently packaged in 4.8-litre containers to reduce handling. At full rate, one jug treats approximately 40 acres – that's 40% more than the 25 acres that a 5-litre jug of Tilt treats! And at the preventative half rate, one jug of Bumper covers 80 acres.

**Tank-mixes:** Bumper can be mixed with one of either 2,4-D amine, MCPA amine, or Badge® in wheat and barley. Bumper can be tank-mixed with Horizon® in wheat, and mixed with Matador® or Ripcord® in corn.

### **Key diseases:**

- Rusts
- Net and spot blotches
- Scalds
- Tan spots
- Blackleg
- Septoria spots and blotches



**Fair Price.  
Brand Results.**

## Application and Use Guidelines:

Check the label for rates and complete recommendations.

Crop	Diseases	Timing
<b>Wheat:</b> Winter, Spring (HRSW, CPS, SWSW) and Durum	Septoria leaf spot, Septoria glume blotch, powdery mildew, leaf and stem rust, tan spot and stripe rust	Apply between stem elongation up until head half-emerged from boot. Apply at early stages of disease development, ideally at the early flag leaf stage.
<b>Barley</b>	Net blotch, spot blotch, scald, powdery mildew, leaf and stem rust and Septoria leaf spot	Apply between stem elongation up until head half-emerged from boot. Apply at early stages of disease development, ideally at the early flag leaf stage.
<b>Oats</b>	Septoria leaf blotch and crown rust	Apply between stem elongation up until head half-emerged from boot. Apply at early stages of disease development, ideally at the early flag leaf stage.
<b>Canola</b>	Blackleg	Apply during the rosette stage; between second true leaf and bolting.
<b>Canaryseed</b>	Septoria leaf mottle	Apply at the flag leaf stage.
<b>Corn</b>	Rusts, northern corn leaf blight, southern corn leaf blight, Helminthosporium leaf spot, eyespot and grey leaf spot	Apply when disease first appears.
<b>Soybean</b> (for seed)	Frogeye leaf spot and aerial web blight	Under severe disease pressure, a second application 14 days after the first is recommended.
<b>Dry edible bean</b>	Rust	At the first detection of disease in the field and a second application 14 to 21 days later.



**Cover ground fast:** Apply with a minimum of 80 L/acre for ground application to achieve optimum plant coverage. Apply a minimum of 16 to 20 L/acre by air.

**Beat the weather:** Bumper is rainfast within one hour.

## Quality Products. Competitive Prices.

MANA makes sense for growers, for channel partners, for agriculture. Headquartered in Winnipeg, Manitoba, MANA Canada currently offers nearly 20 branded insecticides, fungicides and herbicides from a portfolio of more than 18 strategic active ingredients – and our product portfolio continues to grow. As the North American arm of the world's largest off-patent manufacturer and the seventh largest agrochemical company, MANA provides best-in-class formulations, regulatory capabilities, and field research.

MANA is the right crop protection partner because we offer a consistent supply of superior formulations sold at fair prices. Our proven products are efficiently manufactured to the highest standards and value-priced to optimize the profitability potential of your business. Control, consistency and cost are the MANA advantages.

For more information contact your MANA representative to discuss your local crop protection needs.



**MANA**  
CANADA

Crop Protection

**Fair Price.**  
**Brand Results.**

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