

BUMPER

MANA CROP DISEASE CONTROL

FUNGICIDE

BUMPER®

Propiconazole

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



Take control of disease control in cereals, canola, corn, canary seed, dry edible beans and soybeans (grown for seed). Bumper 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 14% in barley. 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, and one jug treats approximately 40 acres. That's 60% more acres per jug than the 25 acres that a 5 litre jug of Tilt treats.

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
- Blacklegs
- Septoria spots and blotches



**Fair Price.
Brand Results.**

Application and Use Guidelines:

Application rate for most crops is 120 ml per acre. Check the label for complete recommendations.

Crop	Diseases	Timing
Winter wheat Spring wheat (HRSW, CPS, SWSW) Durum wheat	Septoria leaf spot Septoria glume blotch Powdery mildew Leaf and stem rust Tan spot 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.
Barley	Net blotch Spot blotch Scald Powdery mildew Septoria leaf spot Leaf and stem 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.
Oats	Septoria leaf blotch 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.
Canola	Blackleg	Apply during the rosette stage; between 2nd true leaf and bolting.
Canary seed	Septoria leaf mottle	Apply at the flag leaf stage.
Corn	Rusts Northern corn leaf blight Southern corn leaf blight Helminthosporium leaf spot Eye spot Grey leaf spot	Apply when disease first appears.
Soybeans (for seed)	Frogeye leaf spot Aerial web blight	Apply when disease first appears. Under severe disease pressure, a second application 14 days after the first is recommended.
Dry edible beans	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 per acre for ground application to achieve optimum plant coverage. Apply a minimum of 16 to 20 L per acre by air.

Beat the weather: Bumper is rainfast within one hour.

MANA makes sense for growers, for channel partners, for agriculture. Headquartered in Calgary, Alberta, MANA Canada currently offers nearly 20 branded insecticides, fungicides and herbicides from a portfolio of more than 16 strategic active ingredients – and our product portfolio continues to grow. As the North American arm of the world's largest off-patent manufacturer and 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 your farm's profitability potential. Control, consistency and cost are the MANA advantages. For more information, contact your MANA representative to discuss your local crop protection needs.



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