



## Evaluation Report for Category B, Subcategory 3.1 Application

**Application Number:** 2023-2070  
**Application:** New or Changes to Product Labels – Application Rate Increase or Decrease  
**Product:** Sphaerex  
**Registration Number:** 34263  
**Active ingredients (a.i.):** Metconazole & Prothioconazole  
**PMRA Document Number:** 3510196

### Purpose of Application

The purpose of this application is to reduce the minimum water volume required for aerial applications to 20 L/ha **unless specified otherwise**, a minimum water volume of 30 L/ha for aerial applications targeting fusarium head blight and a minimum water volume of 50 L/ha for aerial applications targeting ergot on cereals on Sphaerex fungicide.

### Chemistry, Health and Environmental Assessment

A chemistry assessment was not required since there was no change to product chemistry. Health and environment assessments were not required since the use pattern remained unchanged.

### Value Assessment

Scientific rationales and results from five trials with simulated aerial applications conducted in AB, SK and MB in 2022 were reviewed to support a reduction in the minimum spray volume required for aerial applications. The efficacy results demonstrated that there were no performance differences when Sphaerex was applied at the registered water volume compared a reduced water volume as low as 20 L/ha. Use history information and published literature also demonstrated that neither efficacy nor crop tolerance would be expected to be affected by aerial applications of the product at a lower water volume.

The reduction of water volumes would improve fungicide application efficiency and be especially beneficial during busy periods of the growing season or when targeting diseases with narrow application timing windows.

### Conclusion

The PMRA has completed an assessment of the value information provided, and has found the information sufficient to support the water volume reduction of aerial application on the Sphaerex label.

## Reference

- 3465891 2023, DACO 10 - Value Assessment: Sphaerex and Veltyma - Reduced Application Volumes for Registered Aerial Applications, DACO: 10.1
- 3465893 2023, 10.2.4. Use Site History: Veltyma - Aerial Application, DACO: 10.2.4
- 3465894 2023, Minimum Water Volumes\_Canada\_USA\_Australia, DACO: 10.6
- 3465895 2020, Comparison of aerial and ground sprayer fungicide application technologies on canopy coverage, disease severity, lodging, and yield of corn, DACO: 10.6
- 3465896 2017, Aerial and Ground Application of Fungicide in Corn Second Crop on Diseases Control, DACO: 10.6

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