

Evaluation Report for Category B, Subcategory 3.3 Application

Application Number: 2011-0688
Application: Change to product label – Application number or frequency
Product: Proline 480 SC Foliar Fungicide
Registration Number: 28359
Active ingredients (a.i.): Prothioconazole
PMRA Document Number English PDF: 2022177

Purpose of Application

The purpose of this application was to submit additional data to support a second application (ground or aerial) on oilseed crops (canola, rapeseed, Oriental mustard) for use in heavy infestations of sclerotinia stem rot on the label of Proline 480 SC Foliar Fungicide. This claim was requested in the original application for Proline 480 SC Foliar Fungicide (2004-0844), however, the efficacy data at the time could only support one application per season.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

Toxicology and dietary assessments were not required for this application.

The use of prothioconazole on canola, rapeseed and Oriental mustard did not fit within the registered use pattern. Postapplication risk was assessed for the amendment of the Proline 480 SC Foliar Fungicide label to allow for two applications in canola, rapeseed and Oriental mustard. Acceptable margins of exposure (MOEs) were calculated for workers re-entering treated fields. No unacceptable risk is expected when workers follow label directions and wear personal protective equipment as stated on the label.

Environmental Assessment

No additional environmental data were required to add a second application of Proline 480 SC Foliar Fungicide on oilseed crops (canola, rapeseed, Oriental mustard). The environmental exposure resulting from a second application to oilseed crops is expected to be within the registered rates of Proline 480 SC Foliar Fungicide on other crops. Spray buffer zones to mitigate the potential risk from drift to non-target habitats are required.

Value Assessment

A total of six efficacy trials were submitted and reviewed to support the proposed claim. Disease pressures in all trials were adequate to assess the product for efficacy. A second application of Proline 480 SC Foliar Fungicide significantly reduced the incidence of sclerotinia stem rot (overall average of 86% control) when compared to the single application performed at either 315 ml (150 g a.i., 68% control) or 368 ml (175 g a.i., 74% control) of product per ha. The yield response was also numerically higher (up to 7% higher with an average of 2% across all trials) with a second application of Proline 480 SC Foliar Fungicide. In addition, under the widely diverse environmental conditions that exist across canola growing regions where fungicides are used to control sclerotinia stem rot, the extended window of control provided by a two-application spray programme would provide value to growers. According to the Fungicide Resistance Action Committee, a second application of this demethylation inhibitor (DMI) fungicide should not increase the risk for resistance development since the pathogen is not considered at high risk to develop resistance. Therefore, the proposed use pattern is supported with a second application of Proline 480 SC Foliar Fungicide at a rate of 150 g a.i./ha (315 mL/ha) for use on canola, rapeseed and Oriental mustard 7 to 10 days after an initial application to provide better sclerotinia stem rot control.

Conclusion

The PMRA has completed an assessment of available information for Proline 480 SC Foliar Fungicide and has found the information sufficient to support a second application of Proline 480 SC Foliar Fungicide at a rate of 150 g a.i./ha (315 mL/ha) for use on canola, rapeseed and Oriental mustard to control sclerotinia stem rot.

References

- 2012258 2011, Proline 480 SC Foliar Fungicide. Data to Support Two Applications on Canola. DACO 10.1, 10.2.3.1, 10.2.3.3(D), 10.3.1, 10.3.2(B)

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