

Evaluation Report for Category B.3.4 Application

Application Number: 2012-2589
Application: Application Method
Product: Proline 480 SC Foliar Fungicide
Registration Number: 28359
Active ingredients (a.i.): Prothioconazole
PMRA Document Number : 2295793

Purpose of Application

The purpose of this application was for the addition of aerial applications on currently registered disease claims on the Proline 480 SC Foliar Fungicide label.

Chemistry Assessment

No chemistry assessment was required for this application.

Health Assessments

No toxicological assessment was required for this application.

A comparison of the new and registered use patterns for Proline 480 SC Foliar Fungicide showed that there were no changes in the rate and time of application, and that the aerial application will be made in an appropriate water volume. The application of Proline 480 SC Foliar Fungicide by aerial application method is not expected to increase the magnitude of prothioconazole residues on registered crops. Consequently, the dietary exposure is not expected to increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

The addition of aerial applications for prothioconazole on wheat, barley, oats, lentil, chickpea, soybean, corn and sugar beet was assessed. A new mixer/loader/applicator risk assessment was conducted and no occupational risks of concern were identified. The potential exposure for postapplication workers is not expected to exceed the current exposure for registered products. As such, the proposed changes to the use pattern of Proline 400 SC Foliar Fungicide should not result in risks of concern when workers follow the label directions and use the personal protective equipment identified on the label.

Environmental Assessment

Spray buffer zones are required on the product label to protect sensitive non-target terrestrial and aquatic habitats from the effects of spray drift. The spray buffer zones for aerial application to soybeans, wheat, barley, oats, chickpeas, lentils, corn and sugar beets range from 0 to 15 metres for terrestrial habitats, depending on the crop, while they range from 0 to 50 metres for aquatic habitats, depending on the crop and the depth of the habitat.

Value Assessment

Six Canadian trials from 2011 were submitted that demonstrated acceptable levels of foliar disease reduction in corn from simulated aerial applications of Proline 480 SC Foliar Fungicide at the currently labeled rate. Rationales were also provided to justify extending the aerial application directions to include all of the other proposed crops. These rationales point to a history of safe and effective use of Proline 480 SC Foliar Fungicide on oilseed crops in Canada and numerous crops in the U.S., and to Prosaro 250 EC Fungicide, another prothioconazole-based product with registered aerial applications on the Canadian label. Based on all of the evidence presented, the value of adding directions for aerial applications of Proline 480 SC Fungicide to additional crops was deemed to have been supported as proposed.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of information available in support of Proline 480 Sc Foliar Fungicide and has found the information sufficient to support the aerial applications on currently registered disease claims on the Proline 480 SC Foliar Fungicide label.

References

2209016 2012. Proline 480 SC Foliar Fungicide – Efficacy Data to Support Aerial Application on Corn and Additional Labeled Crops. 60 pp. DACO 10.1, 10.2.3.1, 10.2.3.3(D), 10.3, 10.3.1, 10.3.2(B)

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