



Evaluation Report for Category C, Subcategory 3.11 Application

Application Number: 2011-1421
Application: Category C, Subcategory 3.11 (New or Changes to Product Labels – New Pest)
Product: Proline 480SC Foliar Fungicide
Registration Number: 28359
Active ingredients (a.i.): prothioconazole [PRB] fungicide
PMRA Document Number English PDF: 2082115

Background

Proline 480SC is currently registered to suppress ear rots caused by *Fusarium* spp. and *Gibberella* spp. on field, sweet and popcorn as well as control of rusts, eyespot, grey leaf spot and northern corn leaf blight at 420 ml/ha (200 g a.i./ha). Uses are also registered on cereals, oilseeds, pulses, soybean, flax, crambe, borage and sugarbeets.

Purpose of Application

The registrant proposed to add the claim of reducing lodging caused by stalk rot pathogens *Fusarium* spp. and *Gibberella* spp. to the Proline 480SC Foliar Fungicide label and to amend the corn crops to include seed corn.

Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crop, application rates and timings, of the component product remained unchanged.

Value Assessment

Four field trials conducted in Québec and Ontario were submitted to support a claim of reduction in lodging caused by *Fusarium* spp. and *Gibberella* spp. on corn. The results show a reduction of lodging in Proline 480 SC Fungicide treated plots compared to the untreated control. The presence of *F. graminearum* and *G. zea* was confirmed in two of the four trials. Lodging is not actually a disease, but a symptom of stalk rot which may result from infections of *Fusarium* and *Gibberella* species; however, lodging may also result from a variety of biotic and abiotic causes. The addition of disease symptoms as claims on fungicide labels is not supported. Furthermore, the addition of this claim could potentially increase the use of Proline 480 SC Fungicide to improve stalk integrity even under limited disease pressure, which is not consistent with the goal of sustainable pest management. Based on these considerations, the claim for reduction in lodging of corn stalks cannot be supported.

A Category B application was submitted by the applicant to add seed corn to the Proline 480 SC label. The addition of this crop will be addressed under the other submission.

Conclusion

The PMRA has completed an evaluation of the subject application. The claim of reduction of lodging caused by the stalk rot pathogens *Fusarium* spp. and *Gibberella* spp. is a plant health claim and is not supported for registration.

References

- 2035478 2011, Proline 480 SC Foliar Fungicide - Data to Support a Reduction in Lodging Caused by Stalk Rot in Corn, DACO: 10.1,10.2.2,10.2.3.1,10.2.3.3(D)
- 2035472 DACO: 0.8

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