



Evaluation Report for Category C, Subcategory 3.10 Application

Application Number: 2013-1072
Application: Tank-mixes
Product: Trilex Component A
Registration Number: 30644
Active ingredients (a.i.): Penflufen, trifloxystrobin
PMRA Document Number : 2311133

Background

Trilex Component A was first registered in Canada on November 5, 2012. This seed treatment fungicide contains 154 g penflufen and 154 g trifloxystrobin per litre. It is registered for control of seed and seedling diseases caused by *Rhizoctonia solani*, *Fusarium* spp., *Botrytis cinerea* and *Ascochyta* spp. on legume vegetables, corn and alfalfa. Trilex Component A is the master copy of the master product EverGol Xtend.

Purpose of Application

The purpose of this application is to amend the application rate of the tank-mix partners Allegiance FL (Reg. No. 26674) and Trilex Component B (Reg. No. 30645), both containing 317 g metalaxyl/L, on the Trilex Component A label. The current tank-mixture statement refers to the label of each tank-mix partner for use directions, whereas a common rate of 16 mL /100 kg seed (5 g metalaxyl/100 kg seed) is now requested for use on pea, chickpea, lentil and bean.

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 1) the use pattern of Trilex Component A remains the same and 2) a lower application rate of Allegiance FL and Trilex Component B is requested.

Value Assessment

Two seed treatment fungicides, Trilex AL (Reg. No. 29160) and Trilex AL Concentrate (Reg. No. 29679), both containing trifloxystrobin and metalaxyl, are registered in Canada for control of seed rot/pre-emergence damping-off and post-emergence damping-off caused by *Pythium* spp. on pea, chickpea, lentil and bean. Labelled rates deliver 5 g trifloxystrobin and 4 g metalaxyl/100 kg seed, which is close to the active ingredient rates from the proposed tank-mixture, i.e. 3.75 g penflufen, 3.75 g trifloxystrobin and 5 g metalaxyl/100 kg seed. Such comparison suggests that this tank-mixture is likely to control *Pythium* spp. as well on these crops.

Furthermore, seven confirmatory efficacy trials were provided by the applicant. These Petri dish

studies evaluated the effect of Allegiance FL on the germination of dry bean (two trials) and soybean (five trials) seeds inoculated with *P. ultimum* or *P. irregulare*. Four to seven days after seeding, germination averaged 83% and 87% at metalaxyl rates of 4 and 15 g a.i./100 kg seed, respectively, under high disease pressure. The two metalaxyl rates were statistically comparable to the non-inoculated control with respect to emergence, which further substantiates the proposed tank-mixture.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to register a tank-mix of Trilogy Component A and Allegiance FL/Trilex Component B at the common rate of 16 mL/100 kg seed (5 g metalaxyl/100 kg seed).

References N/A

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