



Evaluation Report for Category C, Subcategory 3.10 Application

Application Number: 2013-1069
Application: Tank-mixes
Product: EverGol Xtend
Registration Number: 30365
Active ingredients (a.i.): Penflufen, trifloxystrobin
PMRA Document Number: 2311136

Background

EverGol Xtend was first registered in Canada on May 17, 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*, *Phomopsis longicolla* and *Ascochyta* spp. on legume vegetables, corn and alfalfa.

Purpose of Application

The purpose of this application is to amend the application rate of the tank-mix partner Allegiance FL (Reg. No. 26674; 317 g metalaxyl/L) on the EverGol Xtend 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 Allegiance FL/100 kg seed (5 g metalaxyl/100 kg seed) is now requested for use on pea, chickpea, lentil, bean and soybean.

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 EverGol Xtend remains the same and 2) a lower application rate of Allegiance FL 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, bean and soybean. 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 EverGold Xtend and Allegiance FL at the common rate of 16 mL Allegiance FL/100 kg seed (5 g metalaxyl/100 kg seed).

References

- 2273994 2012, EverGol Xtend Seed Treatment Fungicide - Data to support a tank-mixture with a reduced rate of Allegiance FL on dry bean and soybean, DACO: 10.1, 10.2.3.1, 10.2.3.3(D)
- 2273995 2012, EverGol Xtend Seed Treatment Fungicide - Data to support a tank-mixture with a reduced rate of Allegiance FL on dry bean and soybean, DACO: 10.1, 10.2.3.1, 10.2.3.3(D)

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2013

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.