

Amendment

Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2013-4633
Application: Amendment
Product: DuPont Exirel Insecticide
Registration Number: 30895
Active ingredients (a.i.): cyantraniliprole
PMRA Document Number: **2396446**

Background

E.I DuPont Canada Ltd has submitted an application to expand the label of DuPont Exirel Insecticide (Reg. No. 30895; 100 g/L cyantraniliprole). DuPont Exirel Insecticide is a wide-spectrum insecticide registered for use against various insect pests on crops including those in the pome fruit, stone fruit, tree nut, corm and tuberous vegetables, bulb vegetables, leafy vegetables, cucurbit vegetables, brassica vegetables, fruiting vegetables, and bushberries crop groups. While cyantraniliprole has both ingestion and contact activity, it has much greater activity through ingestion.

Purpose of Application

The purpose of this application is to add a claim of flea beetle control on Crop Groups/Subgroups 1C (Tuberous and Corm Vegetables), 5 (Brassica Vegetables), 8-09 (Fruiting Vegetables), 9 (Cucurbit Vegetables) and 13-07B (Bushberries) to the DuPont Exirel Insecticide label. The application rate is 500-1000 ml product/ ha (50-100 g a.i./ha), and minimum reapplication interval is 5 days, which is within the registered rate ranges and minimum reapplication intervals for the crops/crop groups for other listed pests.

Chemistry Assessment

No chemistry assessment was required.

Health Assessments

No health assessment was required.

Environmental Assessment

No environmental assessment was required.

Value Assessment

Ten trials were provided in support of this application—two on cabbage (one from Ontario and one from Georgia, USA), two on radish (one from California and one from Texas), one on kale (from California) , four on potatoes (from Ontario, Manitoba, Mexico and Wyoming) and one on lowbush blueberries (from Nova Scotia). The data provided consistently demonstrated significant control of flea beetles by cyantraniliprole treatments at the rates of 50-100 g a.i./ha. Rationales were provided for the inclusion of American and Mexican trials for assessment. Rationales were also provided for extrapolation from the submitted data to other crops/crop groups.

Based on the data, 50-100 g a.i./ha was accepted for control of flea beetles. The data on cabbage, radish and kale were acceptable for bridging to the remaining Brassica vegetables, and the data provided on potatoes were acceptable for bridging to the remaining tuberous and corm vegetables. The data provided were acceptable for extrapolation to cucurbit, leafy and fruiting vegetables because these crops have sufficiently similar structure and it is anticipated that thorough coverage can be achieved.

Blueberry flea beetle is a major pest on lowbush rather than highbush blueberry. Lowbush blueberries are shorter in height than highbush blueberries, and more similar to field vegetable crops in the water volume required for thorough coverage. The standard application volume of 200 L/ha was tested on lowbush blueberries, and was found to be effective. The trials on brassica vegetables and potatoes tested application volumes up to 500 L/ha, and found them to be effective. Application timing for blueberry flea beetle is early in the season, before foliage is thick, and therefore it is expected that even on highbush blueberries, application volumes of >500 L/ha would not be required for thorough coverage. Due to the early application timing, this use pattern was considered suitable for control of blueberry flea beetle on both highbush and lowbush blueberries

Conclusion

Use of DuPont Exirel Insecticide on Crop Groups/Subgroups 1C (Tuberous and Corm Vegetables), 5 (Brassica Vegetables), 8-09 (Fruiting Vegetables), 9 (Cucurbit Vegetables) and 13-07B (Bushberries) (Sub. No. 2013-4033) for control of flea beetles at the rate range of 500-1000 ml product/ ha (50-100 g a.i./ha), and minimum reapplication interval of 5 days was supported.

References

- 2338133 2013, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.2.3.3, 10.3, 10.3.2, 10.3.3, 10.5, 10.5.1, 10.5.2, 10.5.3
- 2338134 2013, DACO: 10.3.1
- 2376123 2009, DACO: 10.2.3.3(C)

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