Health Canada — Santé Canada

Evaluation Report for Category CB3.11 Application

Application Number: 2013-3307
Application: Amendment
Product: Exirel Insecticide
Registration Number: 30895
Active ingredients (a.i.): cyantraniliprole
PMRA Document Number : 2372654

Background

E.I DuPont Canada Ltd has submitted an application to expand the label of Exirel Insecticide (Reg. No. 30895; 100 g/L cyantraniliprole). 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 the pest spotted wing drosophila (SWD) to the label of Exirel Insecticide (100 g/L cyantraniliprole, Reg. No. 30895) to the control claims for Crop Group 12-09 (Stone Fruits) and Crop Sub-Group 13-07B (Bushberries) on the Exirel Insecticide label at an application rate of 1000 to 1500 ml product per hectare. This application rate is within the registered application rate range for other insect pests listed on the Exirel Insecticide label for stone fruits and bushberries. SWD is an economic threat to soft skinned summer fruits, specifically those of the stone fruit and berry crop groups.

Chemistry Assessment

n/a

Health Assessments

n/a

Environmental Assessment

n/a

Canada

Value Assessment

Four efficacy field trials were reviewed in support of this submission, including a trial conducted on low bush blueberry, sweet cherry, raspberry, and strawberry. In addition, a rationale referencing the fact that cyantraniliprole has wide activity against a large variety of pest species, including dipteran pests, was included in support of this claim.

The submitted value information demonstrated that Exirel Insecticide has activity against SWD adults. The data demonstrated that following multiple treatments, it can be expected that Exirel will provide up to 100% control of SWD, based on larval counts. Exirel Insecticide is not expected to provide adequate control when used in high pest pressure situations due to the relatively slow activity of cyantraniliprole, which can take up to several days to kill the target pest. This is mitigated by a label statement recommending the use of Exirel Insecticide when SWD populations are low, and the use of a registered control product with a different mode of action when SWD pest populations are high, prior to an application of Exirel Insecticide.

SWD is a significant new pest in Canada. Given that there is an urgent need for control products for SWD, and the demonstrated activity against SWD, Exirel Insecticide has value. A claim of control spotted wing drosophila in stone fruit and bushberries at an application rate of 1000 to 1500 ml Exirel Insecticide per hectare is supported from a value perspective.

Conclusion

The addition of a claim for spotted wing drosophila on the label of Exirel Insecticide (100 g/l cyantraniliprole, Reg. No. 30895) to the control claims for Crop Group 12-09 (Stone Fruits) and Crop Sub-Group 13-07B (Bushberries) on the Exirel Insecticide label at an application rate of 1000 to 1500 ml product per hectare is supported.

References
2317634   2012. Biological assessment dossier for DuPont Exirel Insecticide on Spotted
            Wing Drosophila. E.I. DuPont Canada 2012, 93 pp.
2371635   2013. Exirel SWD Summary Tables