

Evaluation Report for Category B, Subcategory 3.11, 3.12 Application

Application Number: 2010-6327
Application: B.3.11 – Add New Pests
B.3.12 – Add New Hosts
Product: Actara 240SC Insecticide
Registration Number: 28407
Active ingredients (a.i.): Thiamethoxam
PMRA Document Number: 2177030

Purpose of Application

The purpose of this application was to add in-furrow applications at seed planting or seedling transplanting to control several insect pests in leafy vegetables, Brassica vegetables, fruiting vegetables and cucurbit vegetables to the Actara 240SC Insecticide product label.

Health Assessments

Mixer, loader, and applicator exposures fit within the registered use pattern of the active, when wearing the personal protective equipment listed, and following the precautions and directions on the label. Post-application exposures to re-entry workers were considered not to be of concern.

Previously reviewed and submitted data were used to support and validate the soil application use of Actara 240 SC Insecticide on Crop Groups 4, 5, 8-09 and 9. From a food residue exposure point of view, no changes in the magnitude of the residues in food and feed crops are expected. Therefore, no increases in dietary exposure are anticipated.

Environmental Assessment

The addition of in-furrow application on leafy vegetables, Brassica vegetables, fruiting vegetables and cucurbit vegetables are not expected to increase the risk to non-target organisms. However, due to the systemic and persistent nature of thiamethoxam and the attractiveness of cucurbit and fruiting vegetables to pollinators, the EAD has refined the existing data requirement for field residue study in order to estimate exposure and characterize the risk to pollinator.

Value Assessment

Twenty-eight efficacy trials were reviewed in support of the use of soil application of Actara 240SC Insecticide (Reg. No. 28407, 240 g/L thiamethoxam) on several field vegetable crops. Based on the efficacy data as well as extrapolation from registered uses, use of the product is supported on leafy vegetables for control of aphids, dipteran leafminers and leafhoppers and early season suppression of flea beetles; on Brassica vegetables for control of aphids and early season suppression of flea beetles; on fruiting vegetables for control of aphids, dipteran leafminers, leafhoppers and Colorado potato beetles and early season suppression of flea beetles; and on cucurbit vegetables for control of aphids, dipteran leafminers and leafhoppers and early season suppression of flea beetles at the rate range of 375-625 mL/ha (90-150 g a.i./ha). The product is to be applied once a year, at planting or transplanting, in sufficient water volume to ensure uniform application and incorporation into the soil.

Conclusion

The PMRA has reviewed the data provided and has determined the addition of in-furrow applications at seed planting or seedling transplanting to control several insect pests in leafy vegetables, Brassica vegetables, fruiting vegetables and cucurbit vegetables to the Actara 240SC Insecticide product label is acceptable.

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