

Evaluation Report for Category B, Subcategory 4.1 Application

Application Number: 2008-0646
Application: Conversion to full registration without consultation.
Product: Cruiser 350FS Seed Treatment Insecticide
Registration Number: 27986
Active ingredients (a.i.): Thiamethoxam
PMRA Document Number1877669

Background

Cruiser 350FS Seed Treatment Insecticide (Registration Number 27986) was first granted temporary registration in 2005. Cruiser 350FS Seed Treatment Insecticide contains the technical grade active ingredient Thiamethoxam Technical Insecticide (Registration Number 26665) which was granted temporary registration in 2000. Cruiser 350FS Seed Treatment Insecticide and Thiamethoxam Technical Insecticide were converted from temporary to conditional registration in accordance with Subsection 73(4) of the *Pest Control Products Regulations* in order to fulfill the requirements of the new *Pest Control Products Act (PCPA)* in 2007.

At the time of initial registration of Cruiser 350FS Seed Treatment Insecticide in 2005, the condition of registration was the requirement for the registration status of Thiamethoxam Technical Insecticide to convert to full registration. Therefore, at the time of this application the only condition of registration is the status of the conditionally registered Thiamethoxam Technical Insecticide.

Purpose of Application

The purpose of this application is to request the conversion of Cruiser 350FS Seed Treatment Insecticide, containing the technical Thiamethoxam Technical Insecticide, from conditional to full registration. A similar application has been made for Thiamethoxam Technical Insecticide (application number 2008-0617).

Chemistry, Health and Value Assessment

No chemistry, health or value assessments were required for this application.

Environmental Assessment

During the environmental review of the application for conversion of the technical thiamethoxam and its associated end-use products, new data were reviewed which confirmed that thiamethoxam and its transformation product clothianidin are persistent in the environment. Clothianidin, an insecticide in its own right, is also expected to leach to groundwater. At the proposed application rate and use pattern, there are concerns with the use of Cruiser 350FS Seed

Treatment Insecticide in regards to toxicity to bees and other non-target arthropods for both thiamethoxam and clothianidin. Due to these concerns, a new study has been requested to establish potential exposure to bees and non-target arthropods.

Conclusion

The PMRA has completed an assessment of available information for Cruiser 350FS Seed Treatment Insecticide. Based on the requirement for additional environmental data requested for the seed treatment products, Cruiser 350FS Seed Treatment Insecticide is to continue with a conditional registration.

References

List of Studies/Information Submitted by Registrant

PMRA Document Number	Reference
1610615	2008, Thiamethoxam 25 WG Formulation (A9584C): Herbicide Profiling Test to Evaluate the Phytotoxicity to Terrestrial (non-target) Higher Plants, A51197, DACO: 9.8.4
1529809	1998, Assessment of the Side Effects of ACTARA 25WG on the Honey Bee (<i>Apis mellifera</i> L.) After Application on Broad Beans, 982553, DACO: 9.2.4.3,9.2.9
1529851	2007, CGA-355190 - Acute Toxicity to <i>Chironomus riparius</i> Under Static Conditions, T007450-06, DACO: 9.3.4
1529852	2003, Effects of CGA 353042 (Metabolite of CGA 293343) on the Development of Sediment Dwelling Larvae of <i>Chironomus riparius</i> in a Water-Sediment System, 848311, DACO: 9.3.4
1529853	2007, NOA404617 - Acute Toxicity to <i>Chironomus riparius</i> Under Static Conditions, T007454-06, DACO: 9.3.4
1529854	2000, Toxicity Test of NOA-407475 (Metabolite of CGA 293343) on Sediment Dwelling <i>Chironomus riparius</i> (syn. <i>Chironomus thummi</i>) Under Static Conditions, 982580, DACO: 9.3.4
1610615	2008, Thiamethoxam 25 WG Formulation (A9584C): Herbicide Profiling Test to Evaluate the Phytotoxicity to Terrestrial (non-target) Higher Plants, A51197, DACO: 9.8.4

Additional Information Considered

i) Published Information

U.S. EPA, 2003. EFED Risk Assessment for the Seed Treatment of Clothianidin 600FS on Corn and Canola. United States Environmental Protection Agency. DP Barcode 278110. <http://epa.gov/pesticides/foia/reviews/044309/index.htm>

U.S. EPA, 2004. EFED Registration Chapter for Clothianidin for use on Tobacco, Turf, Applies, Pears and Ornamentals. United States Environmental Protection Agency. DP Barcode 296177 and D287186. <http://epa.gov/pesticides/foia/reviews/044309/index.htm>

ISSN: 1911-8082

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