



Evaluation Report for Category B, Subcategories: 3.11 (New or changes to product labels-new pests); 3.12 (New or changes to product labels-new site or host) Application

Application Number: 2005-3527
Application: Evaluation Report for Category B, Subcategories: 3.11 (New or changes to product labels-new pests); 3.12 (New or changes to product labels-new site or host)
Product: Cruiser 5FS Seed Treatment Insecticide
Registration Number: 27045
Active ingredients (a.i.): Thiamethoxam
PMRA Document Number: 1369494

Background

Cruiser 5FS Seed Treatment Insecticide has been registered since June 11, 2002. Cruiser 5FS Seed Treatment Insecticide (47.6% thiamethoxam, Reg. No. 27045) is registered for the control of certain insect pests in wheat, barley, corn and soybeans. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to product label.

Purpose of Application

The purpose of this submission is to amend the registration of Cruiser 5FS Seed Treatment Insecticide by 1) adding dry, edible beans for use and 2) including additional claims of pests in dry, edible beans, specifically for the following pests: potato leafhopper, seed corn maggot and wireworm. The applicant bases the proposed use on Cruiser 350FS Seed Treatment Insecticide (29.9% thiamethoxam, Reg. No. 27986) which is currently registered for potato leafhopper, seed corn maggot and wireworm on dry edible beans.

Chemistry Assessment

A chemistry assessment was not required as there was no change to the product formulation.

Health Assessment

A toxicology assessment was not required as there was no change to the product formulation.

The requested use for Cruiser 5FS Seed Treatment Insecticide fits within the registered use pattern of the active ingredient thiamethoxam. No increase in exposure is expected to occur for commercial seed treatment workers and farmers seeding treated seeds under the proposed use.

The proposed use is supported since it is already registered under another end use product, Cruiser 350FS Seed Treatment Insecticide (29.9% thiamethoxam, Reg. No. 27986).

The personal protective equipment (PPE) recommended on the label has been updated to reflect the toxicological database of thiamethoxam. The revised PPE is: all workers (treater, cleaner, repair, maintenance, bagger, sewer, stacker, forklift operator and others) must wear: coveralls over long sleeve shirt, long pants and chemical-resistant gloves. For good hygiene practice, it is also recommended to wear a NIOSH/MSHA approved dust mask during all job activities. PPE recommended on bags of treated seeds is: wear long-sleeved shirt, long pants, and chemical-resistant gloves when handling treated seed. This updated PPE is considered adequate to address acute as well as short to long term risk.

Bystander exposure and risk during and after application of Cruiser 5FS Seed Treatment Insecticide is considered negligible since the product is applied to seed in commercial facilities; bags of treated seed are adequately labelled; and treated seeds are directly seeded in the ground.

To support the addition of dry, edible beans to the Cruiser 5FS Seed Treatment Insecticide label, no new residue data were submitted. Canadian residue data on file supported the expansion of use on the Cruiser 5FS Seed Treatment Insecticide label to dry, edible beans. Residues of thiamethoxam are expected to be covered by the established maximum residue limit (MRL) on all food crops of 0.02 ppm. No increase in dietary exposure is anticipated with the addition of dry, edible beans to the Cruiser 5FS Seed Treatment Insecticide label.

Environmental Assessment

In support of the amendment to the label of Cruiser 5FS Seed Treatment to include all uses for dry edible beans which are currently on the Cruiser 350 FS Seed Treatment, the applicant provided data which shows product equivalency. Therefore, all changes can be accepted as the additions are identical to those on the currently registered Cruiser 350 FS Seed Treatment.

Value Assessment

In support of the amendment to the label of Cruiser 5 FS Seed Treatment to include all uses for dry edible beans which are currently on the Cruiser 350 FS Seed Treatment Label, Syngenta provided data to demonstrate product equivalency. Therefore, all changes can be accepted as the additions, which include protection against crop injury caused by potato leafhopper, seed corn maggot and wireworms in dry edible beans, are identical (active ingredient application rate, crops, pests) to those on the currently registered Cruiser 350 FS Seed Treatment.

A rationale for the addition of tank mix claims of Cruiser 5FS with the fungicides Apron MAXX or Maxim 480FS plus Apron XL LS was submitted. The proposed claims are supported since similar tank mix claims of Cruiser 350FS with Apron MAXX or Maxim 480FS plus Apron XL LS were previously demonstrated not to affect the performance of the fungicides.

Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Cruiser 5FS Seed Treatment Insecticide by adding dry, edible beans for use and including additional claims of pests in dry, edible beans, specifically for the following pests: potato leafhopper, seed corn maggot and wireworm.

References

Studies/Information Provided by Applicant/Registrant

- PMRA# 712678. Thiamethoxam: Magnitude of the Residue on Bean (dry). Syngenta Crop Protection Inc. Syngenta Study No: 755-00. Laboratory Study ID No: 07675.00-CIR05. Study Report Date: 16-November-2001. 160 pages. DACO 7.4.1.
- PMRA# 1091710. CRUISER 5FS Seed Treatment: Summary of Efficacy Bridge Studies. Syngenta Crop Protection Canada Inc. Company Report No: 10.2.3.1-1. Study Report Date: 14-October-2005. 39 pages. DACO 10.2.3.1.
- PMRA#1091711: Data Summary.

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