

Evaluation Report for Category B, Subcategory 2.3, 2.4, 3.11 Application

Application Number: 2005-7106
Application: Changes to EP Product Chemistry – Identity and Proportion of Formulants
Changes to Product Labels – New Pests
Product: ACELEPRYN Insecticide
Registration Number: 28980
Active Ingredient (a.i.): Chlorantraniliprole
PMRA Document Number: 2753913

Purpose of Application

The purpose of this application was to add a formulation and to amend the product label of ACELEPRYN Insecticide to add several turfgrass pests.

Chemistry Assessment

ACELEPRYN Insecticide is formulated as a suspension concentrate containing chlorantraniliprole at a nominal concentration of 200 g/L. This end-use product has a density of 1.093 g/mL and pH of 7.3. The required chemistry data for ACELEPRYN Insecticide have been provided, reviewed and found to be acceptable.

Health Assessments

ACELEPRYN Insecticide was of low acute toxicity via the oral, dermal, and inhalation routes of exposure. It was non-irritating to the skin and eyes, and was not a skin sensitizer when tested in the local lymph node assay.

The uses of ACELEPRYN Insecticide on turf are not expected to result in greater occupational or bystander exposures than those of the registered uses of chlorantraniliprole. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

A dietary exposure assessment was not required for this application.

Environmental Assessment

The formulation of ACELEPRYN insecticide has been shown to contain low levels of contaminants which have been identified in the federal government's Toxic Substances Management Policy (TSMP, 1995) as Track 1 substances; however, the use of the new formulation is not expected to result in an increase in the release of Track-1 contaminants. PMRA's strategy to manage Track 1 contaminants in pest control products is captured in DIR99-03.

The control of pests on turf at the same application rate as the control of the registered pests on turf is not expected to increase the environmental exposure or risk when the users observe the existing mitigation measures.

Value Assessment

Value information submitted in support of the new alternate formulation of ACELEPRYN Insecticide consisted of three bridging efficacy trials, conducted on annual bluegrass weevil. These trials demonstrated that the alternate formulation had equivalent product performance to the registered formulation. A use history rationale was submitted in support of the addition of several new pest claims for turfgrass. This use history consisted of both a detailed outline of observed product performance in the US and efficacy trial data. This value information was sufficient to support the addition of claims for turfgrass of control of fall armyworm and sod webworm at an application rate of 145 to 290 mL ACELEPRYN Insecticide per ha, control of June beetle larva at an application rate of 560-880 mL ACELEPRYN Insecticide per ha, and control of bluegrass billbug at 580 to 1125 mL ACELEPRYN Insecticide per ha, and suppression of chinch bugs at 580 to 1125 mL ACELEPRYN Insecticide per ha.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and has found it sufficient to add a formulation and to amend the product label of ACELEPRYN Insecticide to add several turfgrass pests.

References

PMRA Document Number	References
2595846	2015, Identification, DACO: 3.1,3.1.1,3.1.2,3.1.3,3.1.4 CBI
2595847	2015, Starting Materials and Certification of Limits, DACO: 3.2.1,3.3.1 CBI
2595849	2015, Description of Formulation Process, DACO: 3.2.2 CBI
2595850	2014, Analytical Method SF-753/1, DACO: 3.4.1 CBI
2595851	2015, Chemical and Physical Properties, DACO: 3.5,3.5.1,3.5.10,3.5.11,3.5.12,3.5.13,3.5.14,3.5.15,3.5.2,3.5.3,3.5.4,3.5.5,3.5.6,3.5.7,3.5.8,3.5.9 CBI
2692224	2016, Rationale for Updated SPSF, DACO: 3.3.2 CBI
2595852	2015, Summary - Toxicology Profile, DACO: 4.1
2595853	2015, Chlorantraniliprole SC (A16130J) - Acute Oral Toxicity Study in the Rat (Up and Down Procedure, DACO: 4.6.1
2595854	2015, Chlorantraniliprole SC (A16130J) - Acute Dermal Toxicity Study in Rats, DACO: 4.6.2
2595855	2015, Chlorantraniliprole SC (A16130J) Acute Inhalation Toxicity Study (Nose-Only) in the Rat - Final Report Amendment 2, DACO: 4.6.3
2595856	2015, Chlorantraniliprole SC (A16130J) - Acute Eye Irritation Study in Rabbits, DACO: 4.6.4
2595858	2015, Chlorantraniliprole SC (A16130J) - In Vitro Eye Irritation Test in Isolated Chicken Eyes, DACO: 4.6.4
2595859	2015, Chlorantraniliprole SC (A16130J) - Primary Skin Irritation Study in Rabbits, DACO: 4.6.5
2595860	2015, Chlorantraniliprole SC (A16130J) - Local Lymph Node Assay in the Mouse, DACO: 4.6.6
2595863	2015, DACO 10 Value Summary - Acelepryn Insecticide A16130J, DACO: 10.1, 10.2, 10.2.2, 10.2.3, 10.2.3.3, 10.3, 10.3.1
2595864	2015, Efficacy Summary Table - Turf and Termites, DACO: 10.2.3.1
2595865	2014, Indoxacarb and Chlorantraniliprole: Evaluate formulations for control of annual bluegrass weevil in turfgrass, DACO: 10.2.3.3, 10.3.2
2595866	2014, Indoxacarb and Chlorantraniliprole: Evaluate formulations for control of annual bluegrass weevil in turfgrass, DACO: 10.2.3.3, 10.3.2
2595868	2014, Indoxacarb and Chlorantraniliprole: Evaluate formulations for control of annual bluegrass weevil in turfgrass, DACO: 10.2.3.3

ISSN: 1911-8082

8 Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2017

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.

