

Evaluation Report for Category B, Subcategory B.3.11 Application

Application Number: 2017-3039
Application: Category B, Subcategory B.3.11 (new pests)
Product: Debantic 50WP Insecticide Poultry and Livestock Premise Spray
Registration Number: 17415
Active ingredients (a.i.): tetrachlorvinphos
PMRA Document Number : 2781287

Background

Debantic 50WP Insecticide Poultry and Livestock Premise Spray (Reg. No. 17415, 50% tetrachlorvinphos) has been registered since March 1983. It is registered to control lice, mites, flies, maggots, fowl ticks and lesser mealworm larvae in livestock premises and on poultry.

Purpose of Application

The purpose of this application is to add claims to control lesser mealworm adults in poultry houses and on poultry to the product label.

Chemistry, Health and Environmental Assessments

Chemistry, environmental and health assessments were not required.

Value Assessment

The results of three laboratory trials from published scientific literature demonstrated that Debantic 50WP Insecticide Poultry and Livestock Premise Spray applied as a surface spray controlled adults of the lesser mealworm (the darkling beetle, *Alphitobius diaperinus*) at the same rates that controlled larvae. This supported the addition of lesser mealworm adults to the Debantic 50WP Insecticide Poultry and Livestock Premise Spray label with the same use pattern as registered for the larvae.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Debantic 50WP Insecticide Poultry and Livestock Premise Spray to include claims that the product controls lesser mealworm adults in poultry houses and on poultry.

References

PMRA #	Document
2775724	2017, Efficacy Data Summary, DACO: 10.2.3.1
2775725	Kaufman, P.E., Strong, C., Rutz, D.A. 2008. Susceptibility of lesser mealworm (Coleoptera: Tenebrionidae) adults and larvae exposed to two commercial insecticides on unpainted plywood panels. <i>Pest Manag. Sci.</i> 64: 108-111. DACO: 10.2.3.3(D)
2775726	Singh, N., Johnson, D. 2015. Baseline Susceptibility and Cross-Resistance in Adult and Larval <i>Alphitobius diaperinus</i> (Coleoptera: Tenebrionidae) Collected from Poultry Farms in Arkansas. <i>J. Econ. Entomol.</i> 108:1994-1999. DACO: 10.2.3.3(D)
2775727	Vaughan, J.A., Turner, E.C. 1984. Residual and Topical Toxicity of Various Insecticides to the Lesser Mealworm (Coleoptera: Tenebrionidae). <i>J. Econ. Entomol.</i> 77: 216-220. DACO: 10.2.3.3(D)
2775728	2017, VALUE ASSESSMENT of Debantic 50WP Insecticide Poultry and Livestock Premise Spray, DACO: 10.1,10.2,10.2.2,10.5.1,10.5.2,10.5.3

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.