

Evaluation Report for Category B, Subcategory 2.3, 2.4 Application

Application Number: 2015-6962
Application: New EP, changes to product chemistry
Product: Sharda Lambda Cyhalothrin 120 EC Insecticide
Registration Number: #####
Active ingredients (a.i.): Lambda-cyhalothrin
PMRA Document Number: 2743628

Purpose of Application

The purpose of this application was to register the end-use product Sharda Lambda Cyhalothrin 120 EC Insecticide (120 g/L lambda-cyhalothrin), for use on terrestrial feed and food crops.

Chemistry Assessment

Sharda Lambda Cyhalothrin 120 EC Insecticide is formulated as an emulsifiable concentrate containing lambda cyhalothrin at a nominal concentration of 120 g/L. This end-use product has a density of 0.90 – 0.96 g/mL and pH of 4.0 – 6.0. The required chemistry data for Sharda Lambda Cyhalothrin 120 EC Insecticide have been provided, reviewed and found to be acceptable.

Health Assessments

Sharda Lambda Cyhalothrin 120 EC Insecticide is considered of high acute toxicity via the oral route, slight acute dermal toxicity, and moderately toxic via the inhalation route of exposure. It is considered severely irritating to the eyes and skin, and a potential skin sensitizer.

The use of the end-use product Sharda Lambda Cyhalothrin 120 EC Insecticide on various labelled crops is not expected to result in potential occupational or bystander exposure over the currently registered use pattern of lambda-cyhalothrin. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Previously reviewed data were reassessed in the framework of the application and it was confirmed that the use of Sharda Lambda Cyhalothrin 120 EC Insecticide is not expected to result in an increase in the magnitude of lambda-cyhalothrin residues in the treated crops. Therefore, the use of Sharda Lambda Cyhalothrin 120 EC Insecticide will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

Lambda-cyhalothrin is currently registered for the same use pattern in other products; therefore, the environmental exposure and risk from the use of Sharda Lambda Cyhalothrin 120 EC Insecticide is expected to be the same.

Value Assessment

In support of the label claims for Sharda Lambda Cyhalothrin 120 EC Insecticide, the applicant cited a precedent product. In addition, an efficacy trial was submitted which compared the precedent product to Sharda Lambda Cyhalothrin 120 EC Insecticide for control of Colorado potato beetle on potatoes in PEI. The purpose of this trial was to demonstrate biological equivalency of Sharda Lambda Cyhalothrin Insecticide to the precedent product. This trial was sufficient to demonstrate biological equivalency, demonstrating no significant differences (number of adults, large and small larvae, and egg masses assessed) between treatments using Sharda Lambda Cyhalothrin or the precedent. No formulation differences of concern with regards to the claim of biological equivalency were noted between the precedent product and Sharda Lambda Cyhalothrin 120 EC Insecticide. The submitted information was sufficient to support the registration of Sharda Lambda Cyhalothrin 120 EC Insecticide.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of Sharda Lambda Cyhalothrin 120 EC Insecticide for use on labeled crops.

References

PMRA Document Number	Reference
2593204	2015, Description of Process Formulation to Lambda Cyhalothrin 120 g/L EC Sharda, DACO: 3.2.1,3.2.2,3.2.3 CBI
2593207	2015, Lambda Cyhalothrin 120 EC: Determination of the Accelerated Storage Stability and Corrosion Characteristics, DACO: 3.3.1,3.5.10,3.5.14
2593206	2015, Lambda Cyhalothrin 120 EC: Determination of the Physico-Chemical Properties, DACO: 3.5.1,3.5.11,3.5.2,3.5.3,3.5.6,3.5.7,3.5.8,3.5.9,3.7
2593205	2015, Lambda Cyhalothrin 120 EC: Validation of the Analytical Method for the Determination of the Active Ingredient Content, DACO: 3.4.1,3.4.2
2646101	2016, Amendment 2 to study plan - Lambda Cyhalothrin 120 EC: Two years storage stability and corrosion characteristics, DACO: 3.5.10,3.5.14 CBI
2695035	2016, Determination of the Flash-point (method ASTM D93a) of Lambda Cyhalothrin 120 EC., DACO: 3.5.11
2646100	2016, Lambda Cyhalothrin 120 EC: Two years storage stability and corrosion characteristics, DACO: 3.5.10,3.5.14 CBI
2593198	2015, Value Summary for Sharda Lambda Cyhalothrin 120 EC Insecticide, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.2.3.3(D), 10.3.2, 10.4, 10.5.1, 10.5.2, 10.5.3, 10.5.4, 10.5.5
2593199	2015, Excel table for Value Summary for Sharda Lambda Cyhalothrin 120 EC Insecticide, DACO: 10.1, 10.2.3.1, 10.3.1
2593200	2015, Efficacy, Phytotoxicity, and Yield Protocol for Insecticide Testing for Sharda Cropchem generic products on Potatoes, DACO: 10.2.3.3(D), 10.3.2(B)
2639241	DACO: 10.1 Value Summary

ISSN: 1911-8082

8 Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2016

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.