

## Evaluation Report for Category B, Subcategory 3.11, 3.12, 3.13 Application

**Application Number:** 2018-3464  
**Application:** Changes to Product Labels - New Pests, New Site or Host, Precautions  
**Product:** Decis 5 EC Insecticide (Eastern Canada & British Columbia)  
**Registration Number:** 22478  
**Active ingredient (a.i.):** Deltamethrin  
**PMRA Document Number:** 3022718

### Purpose of Application

The purpose of this application was to amend the label of Decis 5 EC Insecticide (Eastern Canada & British Columbia) to add new pests, to expand the use to Crop Subgroup 6C (dried shelled pea and bean, except soybean) and to amend the personal protective equipment.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

The label amendments have no impact on the toxicological profile of Decis 5 EC Insecticide (Eastern Canada & British Columbia).

The use of Decis 5 EC Insecticide (Eastern Canada & British Columbia) on Crop Subgroup 6C is not expected to result in potential occupational or bystander exposure over the registered use of deltamethrin. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Residue data from field trials conducted in Canada and the United States were submitted for deltamethrin to support the use of Decis 5 EC Insecticide (Eastern Canada & British Columbia) on Crop Subgroup 6C. Deltamethrin was applied to dry beans and dry peas at the proposed rate, and harvested according to label directions.

## Maximum Residue Limits

The recommendation for maximum residue limit (MRL) for deltamethrin was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). An MRL to cover residues of deltamethrin (cis-, trans- and  $\alpha$ R- deltamethrin) in/on crops is proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRL for the raw agricultural commodities (RACs).

**TABLE 1. Summary of Field Trial and Processing Data Used to Support Maximum Residue Limit (MRL).**

Commodity	Appl. Method/ Total Appl. Rate (g a.i./ha/ season)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT	HAFT			
Dry beans	Foliar/ 29.4-30.6	6-8	<0.03	0.052	-	-	Crop Subgroup 6C: 0.07
Dry peas	Foliar/ 29.6-30.3	6-7	<0.03	<0.03	-	-	

LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial

Following the review of all available data, an MRL as proposed in Table 1 is recommended to cover residues of deltamethrin. Residues in these crop commodities at the proposed MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

## Environmental Assessment

After a scientific review of the available information, it was concluded that the environmental risks associated with the requested label amendments to Decis 5 EC Insecticide (Eastern Canada & British Columbia) are acceptable when the end-use product is used according to the label directions. The Decis 5 EC Insecticide (Eastern Canada & British Columbia) label is subject to the requirements of the deltamethrin re-evaluation as per Proposed Re-evaluation Decision PRVD2015-07 and Re-evaluation Decision RVD2018-27, and was updated accordingly as part of this application.

## Value Assessment

Results from field trials supported the use of Decis 5 EC Insecticide (Eastern Canada & British Columbia) to suppress pea leaf weevil on dried shelled pea and bean, except soybean (Crop Subgroup 6C). Extrapolation from registered uses of this product and a similar product supported the claim of control of grasshoppers, cutworms and lygus bugs on Crop Subgroup 6C. Decis 5 EC Insecticide (Eastern Canada & British Columbia) provides an additional tool for the management of these pest species and a tool in insecticide resistance management of pea leaf weevil and lygus bugs on Crop Subgroup 6C.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to amend the label of Decis 5 EC Insecticide (Eastern Canada & British Columbia).

## References

<b>PMRA Document Number</b>	<b>Reference</b>
2907493	2018, Deltamethrin: Magnitude of Residues In/On Dry Beans Following Three Applications of Decis 5 EC Insecticide, DACO: 7.4.1,7.4.2
2907494	2018, Deltamethrin: Magnitude of Residues In/On Peas Following Three Applications of Decis 5 EC Insecticide, DACO: 7.4.1,7.4.2
2907488	2018, Value Assessment of Decis 5 EC Insecticide for Control of Pea Leaf Weevil ( <i>Sitona lineatus</i> ), Grasshoppers, Cutworms and Lygus Bugs in Crop Sub Group 6C - Compilation of Trial Reports, DACO: 10.2
2907489	2018, Efficacy Summary Table EST-1. Pea leaf weevil ( <i>Sitona lineatus</i> ) control in field pea and fababean with Decis 5 EC Insecticide., DACO: 10.2.3.1
2907490	2018, Value Assessment of Decis 5 EC Insecticide for Control of Pea Leaf Weevil ( <i>Sitona lineatus</i> ), Grasshoppers, Cutworms and Lygus Bugs in Crop Sub Group 6C, DACO: 10.2, 10.2.1, 10.2.2, 10.2.3.2, 10.3, 10.3.2, 10.4, 10.5

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Health Canada, 2020

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 Health Canada, Ottawa, Ontario K1A 0K9.