

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2015-2533
Application: Changes to Product Labels –New site
Product: Success Insecticide
Registration Number: 26835
Active ingredients (a.i.): Spinosad
PMRA Document Number: 2658806

Purpose of Application

The purpose of this application was to amend the end-use product Success Insecticide, containing spinosad, to update and include the PMRA approved revisions of crop groups.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The crop group amendments and updates have no impact on the registered use pattern of Success Insecticide. Exposures to spinosad by mixers, loaders, applicators, and post-application workers are not expected to increase compared to the exposures from the registered use pattern when all label precautions and directions are followed.

No residue data were submitted for spinosad in support of the amendments to the Success Insecticide label. The approved use patterns on the revised crop groups were determined to be within that of the registered label. Therefore, the previously reviewed residue data were reassessed in the framework of the current submission.

Maximum Residue Limits

The recommendation for maximum residue limits (MRLs) for spinosad was based upon the previously reviewed field trial data. MRLs to cover total residues of spinosad in/on crops are proposed as shown in Table 1.

Table 1. Summary of Field Trial Data Used to Support Maximum Residue Limit(s) (MRLs)						
Commodity	Total Application Rate (g ai/ha)	PHI (days)	Residues (ppm)		Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT	HAF T		
Head lettuce (with wrapper leaves)	Foliar / 483-527	1	0.12	3.21	7.0 (CG4A, except leaf lettuce)	8.0 (CG 4-13) ^a
Spinach	Foliar / 483-527	1	1.48	6.57		
Mustard greens	Foliar / 500	3	0.015	4.82	7.0 (CSG5B)	
Broccoli	Foliar / 500	3	0.027	0.400	2.0 (CSG 5A)	2.0 (CG 5-13) ^b
Cabbage (with wrapper leaves)	Foliar / 500	3	0.02	0.360		
Tomato	Foliar / 494-542	1	0.018	0.123	0.2 (CG 8)	0.4 (CG 8-09) ^c
Bell Peppers	Foliar / 503-524	1	0.022	0.074		
Non bell peppers	Foliar / 511-514	1	0.039	0.165		
Apples (US)	Foliar / 495-577	7	<0.02	0.089	0.1 (CG 11)	0.2 (CG 11-09) ^d
Apples (CDN)	Foliar / 487-510	7	<0.04	0.069		
Pears	Foliar / 273-952	7	<0.02	0.08		
Peaches	Foliar / 496-521	14	<0.02	0.061	0.2 (CG 12)	0.2 (CG 12-09) ^e
Cherry	Foliar / 489-511	7	<0.02	0.135		
Plum	Foliar / 501-518	7	<0.02	<0.02		
Celery (untrimmed)	Foliar / 483-527	1	0.397	1.74	7.0 (CG4B)	8.0 (CG 22; except asparagus and kohlrabi) ^f

^a The MRL is proposed to replace the current established MRL of 7.0 ppm for crop subgroup 4A and include all food commodities in the crop group 4-13 (except leaf lettuce).

^b The MRL is proposed to replace the current established MRL of 2.0 ppm for crop subgroup 5A and include all food commodities in the crop group 5-13.

^c The MRL is proposed to replace the current established MRL of 0.2 ppm for crop group 8 and include all food commodities in the crop group 8-09.

^d The MRL is proposed to replace the current established MRL of 0.1 ppm for crop group 11 and include all food commodities in the crop group 11-09.

^e The MRL is proposed to replace the current established MRL of 0.2 ppm for crop group 12 and include all food commodities in the crop group 12-09.

^f The MRL is proposed to replace the current established MRL of 7.0 ppm for crop subgroup 4B and include all food commodities in the crop group 22, except asparagus and kohlrabi.

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

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

A rationale was provided to extrapolate the labelled uses to include the Crop Groups 4-13 (leafy vegetables), 5-13 (brassica head and stem vegetables), 8-09 (fruiting vegetables), 11-09 (pome fruit), 12-09 (stone fruit), and 22 (stalk, stem, and leafy petioles). Extrapolation to the expanded commodities in the crop groups was acceptable as plant structure within the crop groups is sufficiently similar to allow for thorough coverage, and feeding behavior of the pests on the proposed commodities should be similar to that on the labelled crops.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the updated PMRA approved revisions of crop groups on the label of Success Insecticide.

References

PMRA Document Number	Reference
790431	1997, Magnitude of Residues of Spinosad in Leafy Vegetables, DACO 7.4.1
790482	1996, Magnitude of Residues of Spinosad in Tomatoes and Peppers, DACO 7.4.1
1178531	1996, NAF-85: Magnitude of Residue of Spinosad (DE-105) In Apples, DACO 7.4.2
1061290	2002, Magnitude of Residue of Spinosad in Apples Following Treatment with Success 480 SC, DACO 7.4.1
790491	2000, Spinosad: Magnitude of the Residue on Pear, DACO 7.4.1
790494	1998, Magnitude of Residue of Spinosad in Stone Fruit, DACO 7.4.1
2051541	2009, Spinosad: Magnitude of the Residue on Peach, DACO 7.4.1
1255391	Foreign Reviews Of Food, Feed & Tobacco Residue Studies: Spinosad (110003) On Apples, Brassica/Cole Crops. Review Of Residue Data And Analytical Methodology, Permanent Tolerance Petitions For Use On Apples & Brassica Leafy Veggies, January 23,1997 (6f4761/6h5754;D228434-S509217;68-D4-0010)[Naf-85;Subn.#97-0777;Submitted July 31, 1997;Volume 2], DACO 12.5.7
2533546	2015, 10.1 Value Summary, DACO: 10.1

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.