

Evaluation Report for Category B, Subcategory 3.5, 3.6, 3.8, 3.11 and 3.12 Application

Application Number: 2010-3417
Application: Changes to Product Labels - New Pests, New Site or Host, Rotational Crops\Plantback Interval, Pre- Harvest/Slaughter|With-Holding, and Re-Entry Interval
Product: Scala SC Fungicide
Registration Number: 28011
Active ingredients (a.i.): Pyrimethanil
PMRA Document Number English PDF: 1978781

Background

Scala SC Fungicide (Registration Number 28011; 400 g pyrimethanil/L) is currently conditionally registered contingent on the conditional registration of the associated technical grade active ingredient pyrimethanil (Registration Number 28010). Scala SC Fungicide use is for the control of *Botrytis* bunch rot in grapes, *Botrytis* grey mould in strawberries, scab in apples and pears, early blight in potatoes, *Botrytis* storage diseases on apples, and suppression of *Penicillium* storage diseases on apples.

Purpose of Application

The purpose of this application is to amend the Scala SC Fungicide label by the addition of crop group 3-07 (bulb vegetables and field tomatoes) and their associated pests (*Botrytis* leaf blight, purple blotch and neck rot for bulb vegetables; early blight and grey mold for field tomatoes); revise the rotational crop statement; add a general re-entry interval; and adjust the pre-harvest interval (PHI) for early and late season applications in apples.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The proposed registration of pyrimethanil as Scala SC Fungicide on tomatoes and bulb vegetables can be supported. Exposure to workers mixing, loading and applying Scala SC Fungicide or reentering treated areas is not expected to result in unacceptable risk following chemical handler and post-application worker risk assessments.

To support the use expansion, previously reviewed pyrimethanil residue data from field trials conducted in/on bulb vegetables, tomatoes and apples were assessed in the framework of this application. In addition, field accumulation studies for treated mustard greens and wheat were also assessed to support the revision of the plant back interval for rotational crops.

Based on the maximum residues observed in dry bulb onions and green onions treated according to label directions, maximum residue limits (MRLs) to cover residues of pyrimethanil in/on crop group 3-07 (bulb vegetables) will be established as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under established MRLs for the raw agricultural commodity (RAC).

Table 1. Summary of Field and Processing Data Used to Establish Maximum Residue Limit(s) (MRLs)

Commodity	Application Method/ Total Application Rate	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			Min	Max			
Dry bulb Onions	Ground or Aerial/2.4 kg a.i./ha	7	<0.05	0.096	None	0.1	0.1* (for crop subgroup 3-07A)
Green Onions	Ground or Aerial/2.4 kg a.i./ha	7	0.255	1.682	None	2.0	2.0** (for crop subgroup 3-07B)

*Proposed MRL will include all crops of crop subgroup 3-07A

**Proposed MRL will include all crops of crop subgroup 3-07B

Following a review of the available data, the revised crop rotation statement and reduced PHI for apples were found to be acceptable. Additionally, the use expansion of Scala SC Fungicide to include bulb vegetables and field tomatoes can be supported. MRLs for bulb vegetables have been recommended to cover residues of pyrimethanil. Residues of pyrimethanil at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The review of environmental risks associated with the proposed label amendments for Scala SC Fungicide concluded that because the application rates, number of applications, application methods, and tank mix partner remain the same as those currently registered, no change in environmental exposure is expected. The current buffer zone requirement on the label is adequate to mitigate environmental concerns.

Value Assessment

A total of 28 trials were submitted to expand the registration of Scala SC Fungicide for the control of fungal pathogens in field tomato at the rate of 750 mL/ha and bulb vegetables (Crop Group 3-07) at the rate of 1.0 - 2.0 L/ha. Results from eight trials on early blight on tomato demonstrated that pyrimethanil plus chlorothalonil reduced disease by 74% or 86% at the proposed rate for pyrimethanil. Results from three trials on grey mould on tomato demonstrated that pyrimethanil plus chlorothalonil reduced disease by 91%, and Scala SC Fungicide alone and Walabi provided good disease control at 95% and 96%, respectively. Results from four trials on botrytis leaf blight on dry onion demonstrated that Scala SC Fungicide alone effectively suppressed (59 - 68% control) or controlled (81 - 89% control) *Botrytis* disease; the tank mix of Scala SC Fungicide with Bravo reduced disease by 68% or 73%.

Results from eleven trials on purple blotch on onion and leek demonstrated that Scala SC Fungicide controlled disease by 94% on onion or reduced disease severity by 78% on leek. Results from two trials on neck rot on onion demonstrated that Scala SC Fungicide effectively controlled neck rot by 100% and 88% at the rate of 800 g/ha.

Conclusion

The PMRA has completed an assessment of available information for Scala SC Fungicide and has found the information sufficient to support the proposed amendments to the Scala SC Fungicide label and the establishment of maximum residue limits (MRLs) to cover residues of pyrimethanil in/on crop group 3-07 (bulb vegetables) as shown in Table 1. Scala SC Fungicide remains conditionally registered until such time as the conditional registration of the associated technical grade active ingredient pyrimethanil is converted to full registration.

References

PMRA

Document Number

Reference

1598287	2008, Scala SC Fungicide (400 g a.i./L pyrimethanil) for Use on Tomatoes, DACO: 10.1, 10.2.3.1, 10.2.3.3(D), 10.3.1, 10.3.2(B).
1939618	2010, Scala SC Fungicide for Use on Crop Group 3-07 (Bulb Vegetables), DACO: 10.1, 10.2.3.1, 10.2.3.3(D), 10.3.1, 10.3.2(B).
1939730	2006, Scala 600 SC - Magnitude of the residue in field rotational crops - mustard greens (limited field rotational crop study - 1 month plant-back), DACO: 7.4.4

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2011

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.