

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2018-1493
Application: New maximum residue limits (MRLs) for previously assessed TGAI
Product: Dupont Zorvec Technical Fungicide
Registration Number: 32100
Active ingredients (a.i.): Oxathiapiprolin
PMRA Document Number: 3036256

Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) for oxathiapiprolin in/on imported citrus, cacao, and grape commodities.

Chemistry, Environmental and Value assessments

Chemistry, environmental and value assessments were not required for this application.

Health Assessments

Toxicological and occupational assessments were not required for this application.

Residue data for oxathiapiprolin in grapes and citrus fruit, and a rationale for the absence of data for oxathiapiprolin in cacao, were submitted to support the maximum residue limits on imported grapes, citrus fruit, and cacao. In addition, processing studies in treated grapes and citrus fruit were reviewed to determine the potential for concentration of residues of oxathiapiprolin into processed commodities.

Maximum Residue Limits

The recommendation for maximum residue limits (MRLs) for oxathiapiprolin was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of oxathiapiprolin in/on crops and processed commodities are proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRLs for the raw agricultural commodities (RACs).

TABLE 1 Summary of Field Trial and Processing Data Used to Support Maximum Residue Limits (MRLs)

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT	HAFT			
Oranges	Postemergent soil and foliar application / 301 - 324	0	<0.010	0.024	47 (citrus oil)	None	2.0 (citrus oil) 0.15 (cacao) 0.06 (citrus fruit CG10 revised)
Grapefruit			<0.010	0.018			
Lemons			<0.010	0.033			
Grapes	Postemergent foliar application / 97.5 - 125	14	0.021	0.41	1.5 (raisins)		1.3 (raisins) 0.9 (grapes)

LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial, PHI = Preharvest Interval, N/A = Not Applicable

The rationale to waive residue data for oxathiapiprolin residues in/on imported cacao beans was found to be acceptable. The basis of this rationale was that the use of the oxathiapiprolin residue data for citrus fruits would be conservative, considering the surface area to mass ratios of citrus fruits compared to cacao fruit and that cacao peel is inedible. In addition, the maximum theoretical concentration factor of 2.5-fold for cacao based on the loss of water during processing was used, which is also conservative. The resulting MRL for cacao beans was calculated by applying this factor to the citrus fruit US tolerance value ($2.5 \times 0.06 \text{ ppm} = 0.15 \text{ ppm}$).

Following the review, MRLs as proposed in Table 1 are recommended to cover residues of oxathiapiprolin. 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.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to recommended MRLs as proposed in Table 1 to cover residues of oxathiapiprolin.

References

PMRA

Document

Number	Reference
2874725	2015, SYN546539 SC (A20638A) Magnitude of the Residues in or on Orange, Grapefruit, and Lemon as Representative Commodities of Citrus Fruits, Group 10, USA 2013, DACO: 7.4.1
2872855	2014, Decline and magnitude of residues of DPX-QGU42 and its metabolites in grapes and grape vine leaves following application of DPX-QGU42 100 g/L OD - Europe, 2013, DACO: 7.4.1,7.4.2
2364958	2013, Decline and magnitude of residues of DPX-QGU42 and its metabolites in grapes and grape vine leaves following application of DPX-QGU42 100 g/L OD - Europe, 2010-2011, DACO: 7.4.1,7.4.2,7.4.4
2364869	2012, Magnitude of residues of DPX-QGU42 and its metabolites in processed commodities of grapes following application of DPX-QGU42 100 g/L OD - Europe, 2010-2011, DACO: 7.4.5

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.