



Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2021-1743
Application: New Maximum Residue Limits (MRLs) for previously assessed Technical Grade Active Ingredient (TGAI)
Product: Methomyl Technical
Registration Number: 29457
Active ingredient (a.i.): Methomyl
PMRA Document Number: 3385319

Purpose of Application

The purpose of this application was to establish the maximum residue limit (MRL) for residues of methomyl in/on imported lettuce from the United States in order to harmonize with the US tolerance.

Health Assessment

Residue data for methomyl, conducted at exaggerated rates (up to 3.75-fold US GAP), were submitted to support the maximum residue limit on imported lettuce. In addition, a more contemporary lettuce metabolism study was reviewed to confirm the residue definition in plant commodities.

Maximum Residue Limit

The recommendation for the MRL for methomyl was based upon the submitted field trial data conducted at rates beyond those of the registered GAP, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of methomyl in/on lettuce are proposed as shown in Table 1.

Table 1 Summary of Field Trial Data Used to Support Maximum Residue Limit (MRL)

Commodity	Application Method/ Total Application Rate (kg a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL ¹ (ppm)	Recommended MRL (ppm)
			Min	Max			
Head lettuce	Foliar broadcast/15	8-10	0.3	4.8	NA	0.01	5.0

Commodity	Application Method/	PHI (days)	Residues (ppm)		Experimental Processing	Currently Established	Recommended MRL
Leaf lettuce	Foliar broadcast/15	10	0.3	6.5	NA	0.01	5.0

NA = Not applicable

1. As there is no MRL currently specified for lettuce, residues of methomyl in lettuce are covered under the MRL of 0.01 ppm.

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

Toxicology and occupational exposure assessments were not required for this application.

Chemistry, Value and Environmental Assessments

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

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to establish the MRL for residues of methomyl in/on imported lettuce.

References

PMRA Document Number	Reference
1731306	1991, Magnitude of residues of methomyl insecticide in leaf and head lettuce. DuPont Report No. AMR 1601-90, DACO: 7.4.1
3248072	2014, Metabolism of ¹⁴ C-methomyl in Lettuce (<i>Lactuca sativa</i>), DACO: 6.3

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Health Canada, 2022

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.