



Nashi

Agrichemical Regulatory Risk Assessment

June 2025

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use. For older agrichemicals, these pressures are often the result of reconsiderations involving new or refined risk assessment methodologies that require the generation of new data. A consequence of which can be that many of these agrichemicals are not meeting contemporary risk assessment standards as the necessary data is unavailable, or where data is available, the risk posed is considered unacceptable.

The use of agrichemicals can also be impacted through differences in standards between trading partners. The lack of an appropriate pesticide maximum residue limit (MRL) in an importing country can, for practical purposes, effectively prohibit use in the exporting country to ensure compliance, as a MRL breach would adversely affect market access.

The effects of the above are greater regulatory pressure placed on the use of individual agrichemicals or chemical groups. Consequently, the number of approved agrichemical options could be adversely impacted.

To assist strategic planning, with respect to future pest management options, the following tables have been developed to highlight the regulatory threats to agrichemicals currently approved for the management of the pests and diseases in **nashis** in Australia, as well as assisting with any current initiatives aimed at identifying and addressing pest management deficiencies.

Nashi Agrichemical Regulatory Risk Assessment

R1	Short-term risk: Critical concern over retaining access < 1 year
R2	Medium-term risk: Maintaining access of significant concern <2-5 years
R3	Long-term risk: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk / concerns

Blue text = new APVMA approved uses

INSECTS AND OTHER PESTS

Active constituent	MoA group	Insects and other pests	Risks & Comments
(Z)-8-dodecen-1-yl acetate e-8-dodecen-1-yl acetate z-8-dodecen-1-ol	-	Oriental fruit moth	Pheromone – no concerns
1-dodecanol (e,e) 8,10 dodecadien-1-ol dodecenyl acetate - 8 e dodecenyl acetate - 8 z z,8 dodecenol tetradecanol	-	Oriental fruit moth Codling moth	Pheromone – no concerns
1-dodecanol (e,e) 8,10 dodecadien-1-ol dodecenol acetate - 8 z dodecenyl acetate - 8 e dodecenyl acetate - 8 z tetradecan-1-ol	-	Oriental fruit moth Codling moth	Pheromone – no concerns
3-methyl-1-butanol 2-methyl-1-butanol ethyl acetate acetaldehyde sec butanol ethanol carpophilus aggregation pheromones	-	Carpophilus beetles	Pheromone – no concerns
4-(P-acetoxyphenyl)-2- butanone + malathion	1B	Queensland fruit fly	Pheromone – no concerns Malathion: Australia: The <u>final regulatory decision</u> was published in an APVMA Special Gazette on 2 May 2024. Labels containing malathion as an active constituent have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026. EU: Approved. UK: Withdrawn. Canada: In review. USA: Upcoming review.

Nashi Agrichemical Regulatory Risk Assessment

Abamectin + chlorantraniliprole	6 + 28	Codling moth	Abamectin: Australia: APVMA nominated for reconsideration . EU: Approved. Canada: In review. Codex: Pome fruits MRL set at 0.01 mg/kg (2016). Chlorantraniliprole: Australia: No current concerns. EU: Approved. UK: Approved. Canada: In review. Codex: Pome fruits MRL set at 0.4 mg/kg (2009).
		Helicoverpa species	
		Light brown apple moth	
		Oriental fruit moth	
		Two-spotted (red spider) mite	
Chlorantraniliprole	28	Codling moth	Australia: No current concerns. EU: Approved. UK: Approved. Canada: In review. Codex: Pome fruits MRL set at 0.4 mg/kg (2009).
		Helicoverpa species	
		Light brown apple moth	
		Oriental fruit moth	
Chlorpyrifos	1B	Queensland fruit fly, wingless grasshopper (label) Locusts (PER11843 – EXPIRED)	PER11843 expired 31/07/2024. Australia: The APVMA issued a final decision in September 2024. Uses in pome fruit were cancelled. Products with previously approved labels should not be possessed or used after September 30, 2025. The final decision was published in the APVMA Official Gazette on October 3, 2024. EU: Not approved. Canada: In review. USA: Upcoming review. Codex: MRLs revoked.
Clofentezine	10A	European red mite	Australia: No current concerns. EU: Not approved. UK: Approved. Canada: No current review. Codex: Pome fruits MRL set at 0.5 mg/kg (2008).
		Two-spotted (red spider) mite	
		Bryobia mite	
Clothianidin	4A	Queensland and Mediterranean fruit flies	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. EU: Not approved. Canada: In review. USA: Upcoming review. Codex: Pome fruits MRL set at 0.4 mg/kg (2012).
Copper	M1	Snails	
Cydia pomonella granulosus	31	Codling moth	

Nashi Agrichemical Regulatory Risk Assessment

virus		Oriental fruit moth	
Dimethoate	1B	Fruit flies (PER13859 – post harvest orchard clean-up spay)	PER13859 expires 31/05/2030. Australia: APVMA reconsideration . Prioritised to be commenced by 2029. EU: Not approved. Canada: In review. USA: Upcoming review.
E,E-9,11-tetradecadien-1-yl acetate e-11-tetradecen-1-yl acetate	-	Light brown apple moth	Pheromone – no concerns
Etoxazole	10B	European red mite Two-spotted (red spider) mite Bryobia mite	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: No current review. Codex: Pome fruits MRL set at 0.07 mg/kg (2012).
Helicoverpa NPV (nuclear polyhedrosis virus)	31	Helicoverpa species	EU: Approved.
Indoxacarb	22A	Apple weevil Codling moth Fuller's rose weevil Garden weevil Helicoverpa species Light brown apple moth Wingless grasshopper	EU: Not approved. UK: Withdrawn.
Lambda-cyhalothrin	3A	Fruit flies (PER12961 – SA biosecurity – soil drench)	PER12961 expires 31/03/2030. Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: No current review. Codex: Pome fruits MRL set at 0.2 mg/kg (2009).
Malathion	1B	Wingless grasshopper Fruit flies	Australia: The final regulatory decision was published in an APVMA Special Gazette on 2 May 2024. Labels containing malathion as an active constituent have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026. EU: Approved. UK: Withdrawn. Canada: In review. USA: Upcoming review.

Nashi Agrichemical Regulatory Risk Assessment

Methoxyfenozide	18	Light brown apple moth	EU: Approved, candidate for substitution. UK: Approved. Canada: In review. Codex: Pome fruits MRL set at 2 mg/kg (2005).
		Loopers	
Milbemectin	6	European red mite	EU: Approved.
		Two-spotted (red spider) mite	UK: Withdrawn.
NPV (Nucleopolyhedrovirus)	31	Helicoverpa species	Australia: No current concerns. EU: Approved.
Paraffinic oil / petroleum oil	UNM	European red mite	Australia: No current concerns.
		Frosted scale	
		Oystershell scale	
		San Jose scale	
		Spider mites	
		Two-spotted (red spider) mite	
		Pear scale	
Pyrethrins	3A	Fruit flies	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review.
Pyridaben	21A	Two-spotted (red spider) mite	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review.
Spinetoram	5	Caterpillars	PER12590 expires 31/05/2029. Australia: No current concerns. EU: Not approved. UK: Withdrawn. Canada: In review. Codex: MRL set at 0.05 mg/kg (2009).
		Codling moth	
		Helicoverpa species	
		Light brown apple moth	
		Loopers	
		Oriental fruit moth	
		Pear and cherry slug	
		Western flower thrips	
		Fruit flies (PER12590)	
Spinosad	5	Helicoverpa species	PER89870 expires 31/07/2025. Australia: Reviewed in 2014. No current concerns. EU: Approved. UK: Approved.
		Light brown apple moth	
		Loopers	
		Pear and cherry slug	

Nashi Agrichemical Regulatory Risk Assessment

		Western flower thrips	Canada: In review.
		Fall armyworm (PER89870)	
Spirotetramat	23	Longtailed mealybug	Australia: No current concerns. EU: Not approved. UK: Approved. Canada: In review. Codex: MRL set at 0.7 mg/kg (2009).
		San Jose scale	
		Tuber mealybug	
		Woolly aphid	
Sulfoxaflor	4C	Apple dimpling bug (yellow mirid)	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review. Codex: MRL set at 0.3 mg/kg (2015).
		Longtailed mealybug	
		San Jose scale	
		Tuber mealybug	
Thiacloprid	4A	Woolly aphid	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. EU: Not approved. Canada: In review. Codex: MRL set at 0.7 mg/kg (2007).
		Codling moth	
		Mediterranean fruit fly	
		Oriental fruit moth	
Trichlorfon	1B	Rutherglen bug	Australia: APVMA nominated for reconsideration . EU: Not approved. Canada: No current review. USA: Upcoming review.
		Fruit flies (cover and bait spray)	

DISEASES

Active constituent	MoA Group	Disease	Risks & Comments
Chlorine	M	Surface diseases and pests (PER10822)	PER10822 expires 30/11/2025.
Copper	M1	Bitter rot	
		Black spot	
Diphenylamine	-	Scald inhibitor	EU: Not approved. Canada: In review.
Fludioxonil	12	Blue mould	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: No current review. Codex: Pome fruits MRL set at 5 mg/kg (2007).
		Grey mould	
Iodine (Po)	M	Bactericide	Australia: No current concerns. Canada: No current review.

Nashi Agrichemical Regulatory Risk Assessment

Iprodione	2	Blue and green mould	Australia: No current concerns. EU: Not approved. Canada: Several food crop uses deleted. USA: Upcoming review. Codex: Review scheduled.
		Botrytis blight	
		Ripe fruit rot	
		Storage rot	
Mancozeb	M3	Bitter rot	Australia: APVMA reconsideration . Prioritised to be commenced by 2027. EU: Not approved. UK: Withdrawn. Canada: No current review. USA: Upcoming review. Codex Pome fruit MRL set at 5 mg/kg (2005). Periodic review by JMPR starting in 2025.
		Black spot	
		Fly speck	
		Ripe fruit rot	
		Sooty blotch	
		Target spot (early blight)	
Penthiopyrad	7	Black spot	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review. Codex: MRL set at 0.4 mg/kg (2014).
		Powdery mildew	
Sulfur	M2	Black spot	Australia: No current concerns.
		Powdery mildew	
Zineb	M3	Bitter rot	Australia: APVMA reconsideration . Prioritised to be commenced by 2027. EU: Not approved. Canada: No current review. Codex Pome fruit MRL set at 5 mg/kg (2005). Periodic review by JMPR starting in 2025.
		Black spot	
		Sooty blotch	

WEEDS

Active constituent	MoA Group	Weed	Risks & Comments
Carfentrazone-ethyl	14	Various broadleaf weeds.	EU: Approved. UK: Approved. Canada: In review.
Diquat	22	Various broadleaf weeds and grasses.	APVMA proposed decisions published July 2024. All uses in orchards proposed to be deleted. Publication of the final regulatory decision is expected in December 2025 .

Nashi Agrichemical Regulatory Risk Assessment

			Codex: No MRLs. EU: Not approved (withdrawn in 2018). UK: Not approved. USA: Registered (under review).
Flumioxazin	14	Various broadleaf weeds and grasses.	EU: Approved. Canada: In review. Codex: Pome fruits MRL set at 0.02 mg/kg (2016).
Glufosinate-ammonium	10	Various broadleaf weeds and grasses.	Australia: APVMA: Nominated for targeted spray drift reconsideration (potential risk to vegetation, natural aquatic and bystander areas). Canada: In review. Codex: Pome fruits MRL set at 0.1 mg/kg (2013).
Glyphosate	9	Various annual and perennial weeds.	Australia: APVMA nominated for reconsideration for targeted spray drift reconsideration. EU: Approved. UK: Approved. Canada: No current review. USA: Upcoming review.
Haloxypop-p	1	Various annual and perennial weeds.	Codex: Pome fruits MRL set at 0.02 mg/kg (2011).
Isoxaben	K3	Broadleaf weeds.	EU: Approved. UK: Approved. Canada: No current review.
Nonanoic acid	0	Various broadleaf weeds and grasses.	
Oryzalin	3	Various broadleaf weeds and grasses.	EU: Not approved. UK: Withdrawn.
Oxyfluorfen	14	Various broadleaf weeds and grasses.	EU: Approved, candidate for substitution. UK: Withdrawn. Canada: In review. USA: Upcoming review.
Paraquat	22	Various broadleaf weeds and grasses.	APVMA proposed decisions July 2024. All uses in orchards proposed to be deleted. Publication of the final regulatory decision is expected in December 2025 . Codex: Assorted tropical and sub-tropical fruits – inedible peel MRL and Pome fruits (group) set at *0.01 mg/kg (2006). Canada: Not approved.

Nashi Agrichemical Regulatory Risk Assessment

			EU and UK: Not approved (2007). USA: Restricted use (under review).
Saflufenacil	14	Various broadleaf weeds.	EU: Not approved. Canada: No current review. Codex: MRL set at 0.01 mg/kg (2012).

Funding statement: MT24008 –Regulatory Support & Response Co-ordination. This *multi-industry* project has been funded by Hort Innovation, using *industry research and development levies* and contributions from the Australian Government. Hort Innovation is the grower-owned, not-for-profit research and development corporation for Australian horticulture.

Disclaimer

Horticulture Innovation Australia Limited (Hort Innovation) makes no representations and expressly disclaims all warranties (to the extent permitted by law) about the accuracy, completeness, or currency of information in MT24008 – Regulatory Support & Response Co-ordination. Reliance on any information provided by Hort Innovation is entirely at your own risk. Hort Innovation is not responsible for, and will not be liable for, any loss, damage, claim, expense, cost (including legal costs) or other liability arising in any way, including from any Hort Innovation or other person's negligence or otherwise from your use or non-use of MT24008 – Regulatory Support & Response Co-ordination, or from reliance on information contained in the material or that Hort Innovation provides to you by any other means.

Legal notice

Copyright © Horticulture Innovation Australia Limited 2025

Copyright subsists in Ag-Chemical Update. Horticulture Innovation Australia Limited (Hort Innovation) owns the copyright, other than as permitted under the Copyright ACT 1968 (Cth). The Ag-Chemical Update (in part or as a whole) cannot be reproduced, published, communicated or adapted without the prior written consent of Hort Innovation. Any request or enquiry to use the Ag-Chemical Update should be addressed to: Communications Manager

Hort Innovation

Level 7, 141 Walker Street

North Sydney NSW 2060

Australia

Email: communications@horticulture.com.au

Phone: 02 8295 2300

Nashi Agrichemical Regulatory Risk Assessment