

November 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 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 nashi crops in Australia, as well as assisting with any current initiatives aimed at identifying and addressing pest management deficiencies.

R0	Use no longer approved		
R1	Short-term: Critical concern over retaining access < 1 year		
R2	Medium-term: Maintaining access of significant concern <2-5 years		
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years		
R4	No current risk/concerns		

INSECTICIDES/MITICIDES/NEMATICIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
(Z)-8-DODECEN-1-YL ACETATE		Oriental fruit moth	Australia: No current concerns
1-DODECANOL		Codling moth Oriental fruit moth	Australia: No current concerns
3-METHYL-1-BUTANOL		Carpophilus beetles	Australia: No current concerns
ABAMECTIN + CHLORANTRANILIPROLE	6 + 28	Codling moth Helicoverpa species Light brown apple moth Oriental fruit moth Two-spotted (red spider) mite	ABAMECTIN Australia: APVMA nominated for reconsideration and spray drift assessment. Codex MRL: 0.01 mg/Kg Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025) CHLORANTRANILIPROLE Australia: No current concerns. Codex MRL: 0.4 mg/Kg Canada: In re-evaluation
Bacillus thuringiensis	11A	Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)

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CHLORANTRANILIPROLE	28	Codling moth Helicoverpa species Light brown apple moth Oriental fruit moth	Australia: No current concerns. Codex MRL: 0.4 mg/Kg Canada: In re-evaluation
CHLORPYRIFOS	1B		Australia: The chemical review was completed in September 2024. Most uses in horticultural crops were removed. After 30 September 2025, products with previously approved labels must not be supplied. The only remaining approved use is in Brassica crops as specified on current labels. EU: Not approved Canada: Cancelled USA: Agricultural uses cancelled. Very few registrations as Restricted Use Pesticide.
CLOFENTEZINE	10A	European red mite Two-spotted (red spider) mite Bryobia mite	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved
CLOTHIANIDIN	4A	Queensland and Mediterranean fruit flies	Australia: APVMA: <u>Currently under review.</u> Proposed regulatory decisions expected between December2025 to October2026. Codex MRL: 0.4 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER		Snails	Australia: No current concerns.
CYDIA POMONELLA GRANULOSIS VIRUS	31	Codling moth Oriental fruit moth	Australia: No current concerns.
DIMETHOATE	1B	PER13859 for the control of fruit fly	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. Permit PER13859 Expiry date: 31/05/2030 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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E,E-9,11-TETRADECADIEN- 1-YL ACETATE E-11- TETRADECEN-1-YL ACETATE		Light brown apple moth	Australia: No current concerns.
ETOXAZOLE	10B	European red mite Two-spotted (red spider) mite Bryobia mite	Australia: No current concerns. Codex MRL: 0.07 mg/Kg EU: Approved, candidate for substitution.
INDOXACARB	22A	Apple weevil Codling moth Fuller's rose weevil Garden weevil Helicoverpa species Light brown apple moth Wingless grasshopper	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).
LAMBDA-CYHALOTHRIN	3A	PER12961 for the control of Mediterranean Fruit Fly & Queensland Fruit Fly	Australia: No current concerns. Permit PER12961 Expiry date: 31/03/2030 EU: Approved, candidate for substitution.
METHOXYFENOZIDE	18	Light brown apple moth Loopers	Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
MILBEMECTIN	6	European red mite Two-spotted (red spider) mite	Australia: No current concerns. UK: Withdrawn (2024).
NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ZEA		Helicoverpa species	Australia: No current concerns.

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PARAFFIN OIL		European red mite Frosted scale Oystershell scale San Jose scale Spider mites Two-spotted (red spider) mite Pear scale	Australia: No current concerns.
PYRETHRINS	3A	Fruitfly, Rutherglen bug, Spiders	Australia: No current concerns.
PYRIDABEN	21A	Two-spotted (red spider) mite	Australia: No current concerns.
SPINETORAM	5	Caterpillars Codling moth Helicoverpa species Light brown apple moth Loopers Oriental fruit moth Pear and cherry slug Western flower thrips PER12590 for the control of Fruit Fly (suppression only)	Australia: No current concerns. Permit PER12590 Expiry date: 31/05/2029 Codex MRL: 0.05 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	Helicoverpa species Light brown apple moth Loopers Pear and cherry slug Western flower thrips PER89870 for the control of Fall Armyworm	Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030 Canada: In re-evaluation
SPIROMESIFEN	23	Two-spotted mite	Australia: No current concerns. EU: Not approved Canada: In re-evaluation

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Active Constituent	MoA Group	Pest	Risks and Comments
SPIROTETRAMAT	23	Longtailed mealybug San Jose scale Tuber mealybug Woolly aphid	Australia: No current concerns. Codex MRL: 0.7 mg/Kg EU: Not approved Canada: In re-evaluation
SULFOXAFLOR	4C	Apple dimpling bug (yellow mirid) Longtailed mealybug San Jose scale Tuber mealybug Woolly aphid	Australia: No current concerns. Codex MRL: 0.3 mg/Kg
THIACLOPRID	4A	Codling moth Oriental fruit moth Woolly aphid PER14562 for the control of Mediterranean Fruit Fly	Australia: APVMA: Currently under review. Proposed regulatory decisions expected between December 2025 to October 2026. Permit PER14562 Expiry date: 31/05/2027 Codex MRL: 0.7 mg/Kg EU: Not approved Canada: In re-evaluation
TRICHLORFON	1B	Rutherglen bug Fruit flies (cover and bait spray)	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

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FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
COPPER	M1	Bitter rot	Australia: No current concerns.
FLUDIOXONIL	12	Blue mould	Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Approved, candidate for substitution.
IODINE	М	Bactericide	Australia: No current concerns. Canada: Cancelled
IPRODIONE	2	Blue and green mould	Australia: No current concerns. EU: Not approved USA: Under Registration Review (scheduled)
MANCOZEB	M3	Bitter rot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)
PENTHIOPYRAD	7	Black spot	Australia: No current concerns. Codex MRL: 0.4 mg/Kg
SULPHUR	M2	Black spot	Australia: No current concerns. Canada: In re-evaluation
ZINEB	M3	Bitter rot	Australia: APVMA reconsideration. <u>Prioritised to be commenced by 2027.</u> EU: Not approved Canada: Cancelled

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HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments	
CARFENTRAZONE-ETHYL	14	Australia: No current concerns. Canada: In re-evaluation	
DIQUAT	22	Australia: APVMA: Currently under review. Publication of the final regulatory decision is now expected in Mid 2026. Codex MRL: 0.02 mg/Kg EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.	
FLUMIOXAZIN	14	Australia: No current concerns. Codex MRL: 0.02 mg/Kg Canada: In re-evaluation	
GLUFOSINATE-AMMONIUM	10	Australia: APVMA Nominated for targeted spray drift reconsideration Codex MRL: 0.1 mg/Kg EU: Not approved Canada: In re-evaluation	
GLYPHOSATE	9	Australia: APVMA Nominated for targeted spray drift reconsideration USA: Under Registration Review (scheduled)	
HALOXYFOP	1	Australia: No current concerns. Codex MRL: 0.02 mg/Kg EU: Not approved	
ISOXABEN	29	Australia: No current concerns.	
NONANOIC ACID		Australia: No current concerns.	
ORYZALIN	3	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).	

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Active Constituent	MoA Group	Risks and Comments
OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)
PARAQUAT	22	Australia: APVMA: <u>Currently under review.</u> Publication of the final regulatory decision is now expected in Mid 2026 . Candidate chemical recommended to be listed to Rotterdam Convention. Codex MRL: 0.01 mg/Kg EU: Not approved Canada: Cancelled USA: Restricted use
SAFLUFENACIL	14	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved

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R4	No current risk/concerns	

FUMIGANTS – Mixed Function

Active Constituent	Use	Risks and Comments
CHLOROPICRIN + 1,3-	Control of soil borne diseases, plant parasitic	CHLOROPICRIN
DICHLOROPROPENE	Nematodes, Symphylans and Wireworms	Australia: No current concerns.
		EU: Not approved
		USA: Restricted use
		1,3-DICHLOROPROPENE
		Australia: No current concerns.
		EU: Pending
		Canada: Cancelled
DAZOMET	Control of bacterial spot (Xanthomonas spp.)	Australia: No current concerns.
	(suppression only).	USA: Under Registration Review (scheduled)
	Soil insects and nematodes	
ETHANEDINITRILE	Soil borne pathogens, nematodes and weeds	Australia: No current concerns.
METHAM PRESENT AS SODIUM	Germinating weeds and soil-borne fungus	Australia: No current concerns.
SALT	diseases	

PLANT REGULATORS AND OTHERS – Plant regulators, post-harvest treatments, rodenticides and others.

Active Constituent	Use	Risks and Comments
SODIUM HYPOCHLORITE CALCIUM HYPOCHLORITE	Disinfectant	Australia: No current concerns. Permit PER10822 Expiry date: 30/11/2025
ZINC PHOSPHIDE	Permit PER93053 for the control of rats and mice	Australia: No current concerns. Permit PER93053 Expiry date: 30/11/2025 UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)
DIPHENYLAMINE	Permit PER93053 for use as scald inhibitor (post-harvest treatment)	Australia: No current concerns. Permit PER93053 Expiry date: 30/11/2026 EU: Not approved Canada: In re-evaluation

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