



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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

Note that the APVMA and FSANZ treat the American persimmon (*Diospyros virginiana*) differently to the Japanese persimmon (*Diospyros kaki*) with respect to residue Maximum Residue Limits (MRLs):

- Japanese persimmon (*D. kaki*) – Crop Group 002: Pome fruits
- American persimmon (*D. virginiana*) – Crop Group 006: Tropical fruit, inedible peel, Sub-group 006B - Inedible Smooth Peel - Large

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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, Z-3, 13-octadecadien-1-yl acetate + z, z-3, 13-octadecadien-1-ol	-	Clearwing borer (PER88722)	PER88722 expires 31/05/2028.
Acetamiprid + pyriproxyfen	4A + 7C	Fruit flies – suppression only (PER89943)	PER89943 expires 30/11/2025. Acetamiprid: Australia: APVMA: Currently under review . Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. EU: Approved. UK: Approved. Canada: In review. USA: Upcoming review. Pyriproxyfen: EU: Approved. UK: Approved. Canada: No current review.
		Fruit-spotting bugs (PER89943)	
		Mealybug (PER89943)	
		Scale insects (PER89943)	
		Light brown apple moth (PER89943)	
Beta-cyfluthrin	3A	Elephant / rhinoceros beetle (PER80374)	PER80374 expires 31/08/2025.
		Fig longicorn / trunk borer (PER80374)	
		Flatid planthoppers (PER80374)	
		Fruit-spotting bugs (PER80374)	
		Green vegetable bug (PER80374)	
		Litchi stink bug (PER80374)	
		Red shouldered leaf beetle (PER80374)	
		Swarming leaf beetle (PER80374)	
		Yellow peach moth (PER80374)	
Bifenthrin	3A	Termites (non-bearing during tree establishment)	Australia: APVMA nominated for reconsideration . EU: Not approved. Canada: No current review.
Buprofezin (persimmons)	16	Mealybug	EU: Approved. UK: Approved. Canada: No current review.
		Scale insects	

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Chlorpyrifos	1B	Mealybug (PER14547 - EXPIRED)	<p>PER14547 expired 31/05/2025.</p> <p>Australia: The APVMA issued a final decision in September 2024. Most uses 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.</p> <p>EU: Not approved.</p> <p>Canada: In review.</p> <p>USA: Upcoming review.</p> <p>Codex: MRLs revoked.</p>
Clothianidin (persimmons) (FSANZ MRL for American persimmons only)	4A	Fruit flies	<p>PER14779 expires 31/01/2026.</p> <p>Australia: APVMA: Currently under review. Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026.</p> <p>EU: Not approved.</p> <p>Canada: In review.</p> <p>USA: Upcoming review.</p>
		Mealybug (PER14779)	
Dimethoate (persimmons)	1B	Fruit flies (PER13859 – postharvest orchard clean up)	<p>PER13859 expires 31/05/2030.</p> <p>Australia: APVMA reconsideration. Prioritised to be commenced by 2029.</p> <p>EU: Not approved.</p> <p>Canada: In review.</p> <p>USA: Upcoming review.</p>
Ethyl formate (Po)	8A	Light brown apple moth	<p>Australia: APVMA: no current concerns.</p> <p>EU: Not approved.</p>
		Longtailed mealybug	
		Plague thrips	
		Red back spider	
		Western flower thrips	
		Two-spotted mites	
Flonicamid (Japanese persimmons) (Pome fruit MRL in the FSANZ food code)	29	Mealybug (PER89215)	<p>PER89215 expires 31/05/2028.</p> <p>Canada: No current review.</p>
		Redbanded thrips – suppression (PER89215)	
		Plague thrips – suppression (PER89215)	
		Western flower thrips – suppression (PER89215)	
		Greenhouse thrips – suppression (PER89215)	
Helicoverpa NPV (nucleopolyhedrovirus)	31	Helicoverpa species	<p>Australia: No current concerns.</p> <p>EU: Approved.</p>

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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.
Malathion	1B	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. Codex: Re-evaluation scheduled for 2025-2026.
Methomyl	1A	Thrips (PER14548)	Australia: APVMA reconsideration . Prioritised to be commenced by 2026. EU: Not approved. Canada: In review. USA: Upcoming review.
Methoxyfenozide	18	Loopers	PER12591 expires 31/07/2026. EU: Approved, candidate for substitution. UK: Approved. Canada: In review.
		Leafroller caterpillars (PER12591)	
		Light brown apple moth (PER12591)	
		Orange fruit borer (PER12591)	
		Yellow peach moth (PER12591)	
Paraffinic oil / petroleum oil	UNM	Scale insects (PER13933)	PER13933 expires 30/09/2027. Australia: No current concerns.
Pyrethrins + piperonyl butoxide	3A	Ants, aphids, thrips, caterpillars, leafhoppers, whiteflies	Pyrethrins: Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review. Piperonyl butoxide: UK: Approved. Canada: No current review. USA: Upcoming review.
Pyriproxyfen	7C	Ants (invasive and nuisance ants)	EU: Approved. UK: Approved. Canada: No current review.
Spinetoram	5	Flower eating caterpillars	Australia: No current concerns.

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		Helicoverpa species	EU: Not approved. UK: Withdrawn. Canada: In review.
		Leafroller caterpillars	
		Light brown apple moth	
		Loopers	
		Redbanded thrips	
		Western flower thrips	
		Yellow peach moth	
Spinosad (MRL listed as Assorted tropical and sub-tropical fruits - inedible peel & Pome Fruit)	5	Flower eating caterpillars	Australia: Reviewed in 2014. No current concerns. EU: Approved. UK: Approved. Canada: In review.
		Helicoverpa species	
		Leafroller caterpillars	
		Light brown apple moth	
		Loopers	
		Redbanded thrips	
		Western flower thrips	
Sulfoxaflor	4C	Scale insects	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review.
		Banana spotting bug	
		Fruit spotting bug	
		Mealybug	
Tetraniliprole (Japanese persimmon - Pome fruit)	28	Codling moth, Light brown apple moth	Australia: No current concerns. Canada: No current review.
Trichlorfon (Japanese persimmon - Pome fruit)	1B	Fruit flies (PER12450)	PER12450 expires 30/11/2025. PER14743 expires 28/02/2030. Australia: APVMA nominated for reconsideration . EU: Not approved. Canada: No current review. USA: Upcoming review.
		Flatid planthoppers (PER14743)	
		Flower eating caterpillars (PER14743)	
		Fruit-spotting bugs (PER14743)	
		Green vegetable bug (PER14743)	
		Litchi stink bug (PER14743)	
		Loopers (PER14743)	
		Yellow peach moth (PER14743)	

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DISEASES

Active constituent	MoA Group	Disease	Risks & Comments
Chlorothalonil (Japanese and American persimmons)	M5	Cercospora leaf spot (PER13445)	PER13445 expires 30/04/2030. Australia: APVMA reconsideration . Prioritised to be commenced by 2028. EU: Not approved. Canada: In review. USA: Upcoming review.
Difenoconazole (Japanese persimmon - Pome fruit)	3	Cercospora leaf spot / leaf spot (PER87599)	PER87599 expires 31/03/2029. Australia: APVMA nominated for reconsideration after 2029. EU: Approved, candidate for substitution. UK: Approved. Canada: In review.
Fluopyram + tebuconazole	7 + 3	Anthrachnose (American persimmons)	Fluopyram: EU: Approved. UK: Approved. Canada: No current review. Tebuconazole: Australia: APVMA: Removed from nomination list - maintain watching brief. EU: Approved, candidate for substitution. UK: Approved. Canada: In review. USA: Upcoming review.
Fluopyram + trifloxystrobin	7 + 11	Anthrachnose (Japanese persimmons)	Fluopyram: EU: Approved. UK: Approved. Canada: No current review. Trifloxystrobin: Australia: No current concerns. EU: Approved. UK: Approved. Canada: In review.
Mancozeb (persimmons)	M3	Cercospora leaf spot / angular leaf spot (PER12488)	PER12488 expires 30/11/2029. Australia: APVMA reconsideration . Prioritised to be commenced by 2027. EU: Not approved. UK: Withdrawn. Canada: No current review. USA: Upcoming review. Codex: To be reviewed.

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PLANT GROWTH REGULATORS

Active constituent	Claim	Risks & Comments
1-methylcyclopropene (persimmons)	Improved fruit quality post-harvest.	EU: Approved. UK: Approved. Canada: No current review.

WEEDS

Active constituent	MoA Group	Weed	Risks & Comments
Carfentrazone-ethyl (persimmons)	14	Various broadleaf weeds and grasses.	EU: Approved. UK: Approved. Canada: In review.
Clethodim (persimmons)	1	Various grasses.	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review. Codex: MRLs proposed for deletion.
Diquat	22	Various broadleaf weeds and grasses.	<u>APVMA proposed decisions</u> published July 2024. All uses in orchards proposed to be deleted. Publication of the final regulatory decision is expected in <u>December 2025</u> . Codex: No MRLs. EU: Not approved (withdrawn in 2018). UK: Not approved. USA: Registered (under review).
Fluazifop-p (persimmons)	1	Various grasses.	Australia: <u>APVMA nominated for reconsideration</u> and for targeted spray drift reconsideration. Canada: No current review.
Glyphosate (persimmons)	9	Various annual and perennial weeds.	Australia: <u>APVMA: Nominated for targeted spray drift reconsideration</u> (potential risk to vegetation and natural aquatic areas). EU: Approved. UK: Approved. Canada: No current review. USA: Upcoming review.
Haloxifop-P (persimmons)	1	Various annual and perennial grass weeds.	
Isoxaben	K3	Broadleaf weeds.	EU: Approved.

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			UK: Approved. Canada: No current review.
Oryzalin (non-bearing)	3	Various broadleaf weeds and grasses.	EU: Not approved. UK: Withdrawn.
Oxyfluorfen (American persimmons)	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 <u>December 2025</u> . Codex: Assorted tropical and sub-tropical fruits – inedible peel MRL and Pome fruits (group) set at *0.01 mg/kg (2006). Canada: Not approved. EU and UK: Not approved (2007). USA: Restricted use (under review).
Simazine	5	Various broadleaf weeds and grasses.	EU: Not approved.

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