

Persimmons Agrichemical Regulatory Risk Assessment

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

Note that the Codex MRLs are different for Japanese and American persimmons. The Codex MRLs values included in this assessment are for Japanese persimmon (*D. kaki*) – Crop Group 002: Pome fruits. Please consult [American persimmon \(*D. virginiana*\) Codex MRLs](#) and the [Crop Group 006: Tropical fruit, inedible peel Codex MRLs](#) if required.

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

Persimmons - Agrichemical Regulatory Risk Assessment

INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
13-OCTADECADIEN-1-YL ACETATE	--	PER88722 for the control of Clearwing Borer (unregistered product)	Australia: No current concerns. Permit PER88722 Expiry date: 31/05/2028
ACETAMIPRID + PYRIPROXYFEN	4A + 7C	PER89943 for the control of Fruit Spotting Bugs Mealybugs Scale Insects Light Brown Apple Moth Suppression only: Mediterranean Fruit Fly Queensland Fruit Fly	Permit PER89943 Expiry date: 30/09/2027 ACETAMIPRID Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December 2025 to October 2026. Codex MRL: 0.8 mg/Kg Canada: In re-evaluation USA: Under Registration Review (scheduled) PYRIPROXYFEN Australia: No current concerns.
ALPHA-CYPERMETHRIN	3A	PER96678 for the control of Fruit Fly	Australia: APVMA nominated for reconsideration after 2029 . Permit PER96678 Expiry date: 30/09/2030 EU: Not approved
<i>Bacillus thuringiensis</i>	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)

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

Persimmons - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Pest	Risks and Comments
BETACYFLUTHRIN	3A	PER80374 for the control of Fruit-spotting bug Banana-spotting bug Elephant or Rhino beetle Red-shouldered leaf beetle Swarming leaf beetle Longicorn trunk borer Macadamia nut borer Flatid planthopper Green vegetable bug Yellow peach moth	Australia: No current concerns. Permit PER80374 Expiry date: 30/06/2028 EU: Not approved
BUPROFEZIN	16	Mealybug Scale insects	Australia: No current concerns.
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.
CLOTHIANIDIN	4A	PER14779 for the control of Mealybug in Japanese persimmon	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December 2025 to October 2026. Permit PER14779 Expiry date: 30/09/2027 Codex MRL: 0.4 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
DIMETHOATE	1B	PER13859 for the control of fruit fly	Australia: APVMA reconsideration. Prioritised to be commenced by 2029 . EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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

Persimmons - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Pest	Risks and Comments
ETHYL FORMATE	8A	Light brown apple moth Longtailed mealybug Plague thrips Red back spider Western flower thrips Two-spotted mites	Australia: No current concerns. EU: Not approved
ETOXAZOLE	10B	Two-spotted Mite European Red Mite	Australia: No current concerns. Codex MRL: 0.07 mg/Kg EU: Approved, candidate for substitution.
FLONICAMID	29	PER89215 for the control of Thrips & mealybug	Australia: No current concerns. Permit PER89215 Expiry date: 31/05/2028 Codex MRL: 0.8 mg/Kg
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 Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution.
METHOMYL	1A	PER14548 for the control of Thrips	Australia: APVMA reconsideration. Prioritised to be commenced by 2026. Permit PER14548 Expiry date: 31/05/2028 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
METHOXYFENOZIDE	18	PER12591 for the control of Leaf roller, Yellow peach moth, Lightbrown apple moth and Orange fruitborer	Australia: No current concerns. Permit PER12591 Expiry date: 31/07/2026 Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation

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

Persimmons - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Pest	Risks and Comments
NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ARMIGERA	--	Helicoverpa spp. Scale insects (PER13933) Ants, aphids, thrips, caterpillars, leafhoppers, whiteflies	Australia: No current concerns.
NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ZEA	--	Helicoverpa	Australia: No current concerns.
PETROLEUM OIL	UN	PER13933 for the control of Scale insects	Australia: No current concerns. Permit PER13933 Expiry date: 30/09/2027 EU: Not approved
PYRETHRINS	3A	Fruitfly, Rutherglen bug, Spiders	Australia: No current concerns.
PYRETHRINS + PIPERONYL BUTOXIDE	3A	Ants, aphids, thrips, caterpillars, leafhoppers, whiteflies	PYRETHRINS Australia: No current concerns. PIPERONYL BUTOXIDE Australia: No current concerns. USA: Under Registration Review (scheduled)
SPINETORAM	5	Flower eating caterpillars Helicoverpa species Leafroller caterpillars Light brown apple moth Loopers Redbanded thrips Western flower thrips Yellow peach moth 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

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

Persimmons - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Pest	Risks and Comments
SPINOSAD	5	Flower eating caterpillars Helicoverpa species Leafroller caterpillars Light brown apple moth Loopers Redbanded thrips Western flower thrips Yellow peach moth 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
SULFOXAFLO	4C	Scale insects Banana spotting bug Fruit spotting bug Mealybug Codling moth,	Australia: No current concerns. Codex MRL: 0.3 mg/Kg
TETRALIPROLE	28	Codling moth, Light brown apple moth	Australia: No current concerns.
THIACLOPRID	4A	PER14562 for the control of Mediterranean Fruit Fly (Pome Fruit: Japanese persimmon)	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December2025 to October2026. Permit PER14562 Expiry date: 31/05/2027 Codex MRL: 0.7 mg/Kg EU: Not approved Canada: In re-evaluation

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

Persimmons - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Pest	Risks and Comments
TRICHLORFON	1B	PER12450 for the control of Fruit fly PER14743 for the control of Flatid Planthopper Flower-eating Caterpillar Loopers Yellow Peach Moth Suppression only: Fruit-spotting Bug Banana-spotting Bug Green Vegetable Bug Lychee Stink Bug	Australia: APVMA nominated for reconsideration after 2029. Permit PER12450 Expiry date: 31/08/2030 Permit PER14743 Expiry date: 28/02/2030 EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
CHLOROTHALONIL	M5	PER13445 for the control of Cercospora leaf spot in Japanese persimmon	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Permit PER13445 Expiry date: 30/04/2030 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	PER94006 for the control of Diplodia & pink disease	Australia: No current concerns. Permit PER94006 Expiry date: 31/08/2029
DIFENOCONAZOLE	3	PER87599 for the control of Cercospora leaf spot and leaf spot in Japanese persimmon	Australia: APVMA nominated for reconsideration after 2029. Permit PER87599 Expiry date: 31/03/2029 Codex MRL: 4 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation

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

Persimmons - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Pest	Risks and Comments
FLUOPYRAM + TEBUCONAZOLE	7 + 3	Anthrachnose (American persimmons)	<p>FLUOPYRAM Australia: No current concerns. Codex MRL: 0.5 mg/Kg</p> <p>TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)</p>
FLUOPYRAM + TRIFLOXYSTROBIN	7 + 11	Anthrachnose (Japanese persimmons)	<p>FLUOPYRAM Australia: No current concerns. Codex MRL: 0.5 mg/Kg</p> <p>TRIFLOXYSTROBIN Australia: No current concerns. Codex MRL: 0.7 mg/Kg Canada: In re-evaluation</p>
MANCOZEB	M3	PER12488 for the control of Cercospora leaf spot	<p>Australia:APVMA reconsideration.<u>Prioritised to be commenced by 2027.</u> Permit PER12488 Expiry date: 30/11/2029 EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)</p>

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

Persimmons - Agrichemical Regulatory Risk Assessment

HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CARFENTRAZONE-ETHYL	14	Australia: No current concerns. Canada: In re-evaluation
CLETHODIM	1	Australia: No current concerns.
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.
FLUAZIFOP-P	1	Australia: No current concerns
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.
ORYZALIN	3	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).
OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)

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

Persimmons - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Risks and Comments
PARAQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is now expected in Mid 2026 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
SIMAZINE	5	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved

FUMIGANTS – Mixed Function

Active Constituent	Use	Risks and Comments
CHLOROPICRIN + 1,3-DICHLOROPROPENE	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	CHLOROPICRIN 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.) (suppression only). Soil insects and nematodes	Australia: No current concerns. USA: Under Registration Review (scheduled)
ETHANEDINITRILE	Soil borne pathogens, nematodes and weeds	Australia: No current concerns.
METHAM PRESENT AS SODIUM SALT	Germinating weeds and soil-borne fungus diseases	Australia: No current concerns.

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

Persimmons - Agrichemical Regulatory Risk Assessment

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

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Improves quality after shipping, storage and handling	Australia: No current concerns
ZINC PHOSPHIDE	PER93053 for the control of Rats & mice	Australia: No current concerns. Permit PER93053 Expiry date: 30/11/2025 UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)

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