



Avocado

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 with changed data requirements. A consequence of which can be that many agrichemicals are not meeting contemporary risk assessment standards as the necessary data is unavailable, or where data is available, the refined 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 an 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 **avocados** as well as assisting with any current initiatives aimed at identifying and addressing identified pest management deficiencies.

Avocado 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
Abamectin	6	Tea red spider mite	Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Approved. Canada: In review. Codex: MRL set at 0.01 mg/kg (2016).
Acetamiprid + pyriproxyfen	4A + 7C	Banana / fruit-spotting bugs	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 flies	
		Oleander scale	
		Pink wax scale	
Beta-cyfluthrin	3A	Banana / fruit-spotting bugs	
		Swarming leaf beetle	
Bifenazate	20D	Six-spotted mite (PER89167)	PER89167 expires 31/03/2027. EU: Approved. UK: Approved. Canada: In review.
		Tea red spider mite (PER89167)	
Carbaryl	1A	Red shouldered leaf beetle	Australia: No current concerns. EU: Not approved. Canada: In review. USA: Upcoming review. Codex: Review scheduled, support uncertain.
		Wingless grasshopper	

Avocado Agrichemical Regulatory Risk Assessment

Chlorantraniliprole	28	Avocado leafroller (PER81560)	PER81560 expires 31/07/2027. Australia: No current concerns. EU: Approved. UK: Approved. Canada: In review. Codex: MRL set at 0.3 mg/kg (2023).
		Ectropis looper (PER81560)	
Chlorpyrifos	1B	Avocado leafroller, fiorinia scale, hairy caterpillar, ivy leafroller, latania scale, light brown apple moth, red shouldered leaf beetle, Queensland fruit fly	Australia: The APVMA issued a Final Decision on 30 September 2024. All uses on avocado were cancelled. Products with previously approved labels must not be possessed or used after September 30, 2025. Codex: All MRLs deleted EU: Not approved Canada: All uses cancelled 2023 USA: Upcoming review
Dimethoate	1B	Queensland fruit fly	Australia: APVMA reconsideration . Prioritised to be commenced by 2029. EU: Not approved. Canada: In review. USA: Upcoming review. Codex: MRL set at 2 mg/kg (2023).
Etoxazole	10B	Six-spotted mite (PER85167)	PER85167 expires 31/05/2026. Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: No current review.
		Tea red spider mite (PER85167)	
Fenbutatin oxide	12B	Six-spotted mite	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved. Canada: In review. USA: Upcoming review.
		Tea red spider mite	
Flupyradifurone	4D	Banana / fruit-spotting bugs	Australia: No current concerns. EU Approved. UK: Approved. Canada: No current review. Codex: MRL set at 0.6 mg/kg (2021).
		Green plant hopper	
		Mango plant hopper	
Isocycloseram	30	Banana / fruit spotting bug	Australia: No current concerns. Canada: No current review
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.

Avocado Agrichemical Regulatory Risk Assessment

Methomyl	1A	Ectropis looper (PER14597)	PER14597 expires 31/03/2027. Australia: APVMA reconsideration . Prioritised to be commenced by 2026. EU: Not approved. Canada: In review. USA: Upcoming review.
Methoxyfenozide	18	Avocado leafroller	EU: Approved, candidate for substitution. UK: Approved. Canada: In review. Codex: MRL set at 0.7 mg/kg (2010).
Paraffinic / petroleum oil	UNM	Scale insects	
		Fruit flies	
		Greenhouse thrips	
Piperonyl butoxide + betacyfluthrin	3A	Fruit spotting bug	Piperonyl butoxide: UK: Approved. Canada: No current review. USA: Upcoming review.
Pyrethrins	3A	Greenhouse thrips	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review.
		Clean up spray for fruit fly, Rutherglen bug and spiders	
Spinetoram	5	Avocado leafroller	Australia: No current concerns. EU: Not approved. UK: Withdrawn. Canada: In review. Codex: MRL set at 0.3 mg/kg (2018).
		Ectropis looper	
		Flower eating caterpillars	
		Ivy leafroller	
		Leafroller (Tortrix) caterpillars	
		Light brown apple moth	
		Loopers	
		Redbanded thrips	
		Sorghum head caterpillar	
Spinosad	5	Avocado leafroller	Australia: Reviewed in 2014. No current concerns. EU: Approved. UK: Approved. Canada: In review.
		Ectropis looper	
		Flower eating caterpillars	
		Ivy leafroller	
		Leafroller (Tortrix) caterpillars	
		Light brown apple moth	
		Loopers	

Avocado Agrichemical Regulatory Risk Assessment

		Redbanded thrips	
		Sorghum head caterpillar	
		Yellow peach moth	
Sulfoxaflor	4C	Banana / fruit-spotting bugs	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review. Codex: MRL set at 1 mg/kg (2004).
Tebufoenozide	18	Leafroller (Tortrix) caterpillars	EU: Approved. UK: Approved. Canada: No current review. Codex: MRL set at 0.01 mg/kg (2016).
Tetraniliprole	28	Fruit spotting bug (PER93099)	PER93099 expires 30/06/2026.
		Garden weevil (PER93099)	Australia: No current concerns.
		Lepidoptera including loopers and leaf rollers (PER93099)	Canada: No current review.
Trichlorfon	1B	Banana / fruit-spotting bugs	PER12450 expires 30/11/2025.
		Red shouldered leaf beetle	Australia: APVMA nominated for reconsideration .
		Fruit flies (bait spray)	EU: Not approved.
		Fruit flies - cover spray (PER12450)	Canada: No current review. USA: Upcoming review.

DISEASES

Active constituent	MoA Group	Disease	Risks & Comments
Azoxystrobin	11	Anthracnose	Australia: No current concerns.
		Stem-end rot	EU: Approved. UK: Approved. Canada: In review.
Azoxystrobin + fludioxonil	11 + 12	Side rot	Azoxystrobin: Australia: No current concerns. EU: Approved. UK: Approved. Canada: In review.
		Stem-end rot	Fludioxonil: Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: No current review. Codex: MRL set at 1.5 mg/kg (2019).

Avocado Agrichemical Regulatory Risk Assessment

<i>Bacillus amyloliquefaciens</i> strain QST 713	BM 02	Anthracnose	
		Ste-end rot	
Copper	M1	Anthracnose	EU: Candidate for substitution
		Cercospora spot	
		Phytophthora stem rot	
		Sooty blotch	
		Trunk (stem) canker	
Didecyl dimethyl NH ₄ Cl	-	Sanitizer	EU: No authorisation in place
Fluopyram + trifloxystrobin	7 + 11	Anthracnose	Fluopyram: EU: Approved. UK: Approved. Canada: No current review. Trifloxystrobin: Australia: No current concerns. EU: Approved. UK: Approved. Canada: In review.
		Stem-end rot	
Fosetyl-Aluminium	33	Phytophthora root rot	Codex: MRL set at 20 mg/kg (2018).
Iodine	-	Post-harvest sanitizer	Australia: No current concerns. Canada: No current review.
Metalaxyl / Metalaxyl-M	4	Phytophthora root rot	Metalaxyl: Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: In review. Codex: MRL set at 0.2 mg/kg. Metalaxyl-M: EU: Approved. UK: Approved.
Phosphorous acid	33	Phytophthora root rot	
Prochloraz	3	Anthracnose	EU: Not approved. UK: Approved. Codex: Assorted tropical and sub-tropical fruits – inedible peel MRL set at 7 mg/kg (2005). Periodic re-evaluation scheduled.
		Stem-end rot	
Thiram	M3	Anthracnose	Australia: APVMA reconsideration . Prioritised to be commenced by 2027. EU: Not approved. Canada: No current review. Codex: To be reviewed.
		Stem-end rot	

Avocado Agrichemical Regulatory Risk Assessment

PLANT GROWTH REGULATORS

Active constituent	Claim	Risks & Comments
1-methylcyclopropene (Po)	Post-harvest treatment to improve quality	EU: Approved. UK: Approved. Canada: No current review.
Paclobutrazol	Growth control and fruit drop control	EU: Approved, candidate for substitution. UK: Approved. Canada: In review.
Uniconazole-P	Vegetative growth control	Canada: In review.

WEEDS

Active constituent	MoA Group	Weed	Risks & Comments
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 . Codex: No MRLs. EU: Not approved (withdrawn in 2018). UK: Not approved. USA: Registered (under review).
Fluazifop-p	1	Various grasses.	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration. Canada: No current review.
Flumioxazin	14	Various broadleaf weeds.	EU: Approved. Canada: In review.
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: Assorted tropical and sub-tropical fruits – inedible peel MRL set at 0.1 mg/kg (2013).
Glyphosate	9	Various broadleaf weeds and grasses.	Australia: APVMA: Nominated for targeted spray drift reconsideration . EU: Approved. UK: Approved. Canada: No current review. USA: Upcoming review.

Avocado Agrichemical Regulatory Risk Assessment

Haloxypop-p	1	Various 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.	<u>APVMA proposed decisions July 2024.</u> 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 set at 0.01 mg/kg (2006). Canada: Not approved. EU and UK: Not approved (2007). USA: Restricted use (under review).
Pendimethalin	3	Various broadleaf weeds and grasses.	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: In review. USA: Upcoming review.

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

Avocado Agrichemical Regulatory Risk Assessment