

AVOCADO

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 **avocados** 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
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INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	Tea red spider mite	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)
ACETAMIPRID + PYRIPROXYFEN	4A + 7C	Banana / fruit-spotting bugs	ACETAMIPRID Australia: APVMA: Currently under review. Proposed regulatory decisions expected between December 2025 to October 2026. Canada: In re-evaluation USA: Under Registration Review (scheduled) PYRIPROXYFEN Australia: No current concerns.
<i>Bacillus thuringiensis</i>	11A	Armyworm Helicoverpa Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)
BETA-CYFLUTHRIN	3A	Banana / fruit-spotting bugs	Australia: No current concerns. EU: Not approved
BIFENAZATE	20D	PER89167 for the control of Mites	Australia: No current concerns. Permit PER89167 Expiry date: 31/03/2027 Canada: In re-evaluation

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CARBARYL	1A	Red shouldered leaf beetle	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CHLORANTRANILIPROLE	28	PER81560 for the control of lepidopterans	Australia: No current concerns. Permit PER81560 Expiry date: 31/07/2027 Codex MRL: 0.3 mg/Kg Canada: In re-evaluation
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 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.
CYCLANILIPROLE	28	Fruit spotting bug Banana spotting bug	Australia: No current concerns. EU: Not approved
DIMETHOATE	1B	Queensland fruit fly	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
ETOXAZOLE	10B	PER85167 for the control of Six-spotted mite Tea Red Spider Mite	Australia: No current concerns. Permit PER85167 Expiry date: 31/05/2026 EU: Approved, candidate for substitution.
FENBUTATIN OXIDE	12B	Six-spotted mite	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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FLUPYRADIFURONE	4D	Banana / fruit-spotting bugs	Australia: No current concerns. Codex MRL: 0.6 mg/Kg
ISOCYCLOSERAM	30	Banana / fruit spotting bug	Australia: No current concerns.
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.
METHOMYL	1A	PER14597 for the control of Ectropis looper.	Australia:APVMA reconsideration. Prioritised to be commenced by 2026. Permit PER14597 Expiry date: 31/03/2027 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
METHOXYFENOZIDE	18	Avocado leafroller	Australia: No current concerns. Codex MRL: 0.7 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
PARAFFIN OIL PETROLEUM OIL	-- + UN	Scale insects	PARAFFIN OIL Australia: No current concerns. PETROLEUM OIL Australia: No current concerns. EU: Not approved
PIPERONYL BUTOXIDE BETACYFLUTHRIN	-- + 3A	Fruit spotting bug	PIPERONYL BUTOXIDE Australia: No current concerns. USA: Under Registration Review (scheduled) BETACYFLUTHRIN Australia: No current concerns. EU: Not approved
PYRETHRINS	3A	Greenhouse thrips	Australia: No current concerns.

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SPINETORAM	5	Avocado leafroller	Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	Avocado leafroller PER89870 for the control of Fall Armyworm	Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030 Canada: In re-evaluation
SULFOXAFLOX	4C	Banana / fruit-spotting bugs	Australia: No current concerns. Codex MRL: 0.15 mg/Kg
TEBUFENOZIDE	18	Leafroller (Tortrix) caterpillars	Australia: No current concerns. Codex MRL: 1 mg/Kg
TETRANILIPROLE	28	PER93099 for the control of: Fruit spotting bugs Garden weevil Lepidopteran pests including Loopers and Leaf rollers	Australia: No current concerns. Permit PER93099 Expiry date: 30/06/2026
TRICHLORFON	1B	PER12450 for the control of Fruit fly	Australia: APVMA nominated for reconsideration after 2029. Permit PER12450 Expiry date: 31/08/2030 EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

FUNGICIDES – Disease Control

R0	Use no longer approved
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Active constituent	MoA Group	Pest	Risks and comments
AZOXYSTROBIN	11	Anthraco nose	Australia: No current concerns. Canada: In re-evaluation
AZOXYSTROBIN + FLUDIOXONIL	11 + 12	Side rot	Australia:
<i>Bacillus amyloliquefaciens</i> STRAIN QST 713	BM02	Anthraco nose (suppression only) Stem end rot (suppression only)	Australia: No current concerns.
COPPER	M1	Anthraco nose	Australia: No current concerns.
CYPRODINIL FLUDIOXONIL	9 + 12	PER96024 for the control of Anthracnose	CYPRODINIL Australia: No current concerns. Codex MRL: 1 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation Permit PER96024 Expiry date: 30/09/2028 FLUDIOXONIL Australia: No current concerns. Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution.
DIFENOCONAZOLE	3	PER96024 for the control of Anthracnose	Australia: APVMA nominated for reconsideration after 2029. Permit PER96024 Expiry date: 30/09/2028 Codex MRL: 0.6 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
FLUOPYRAM + TRIFLOXYSTROBIN	7 + 11	Anthraco nose	Australia: 0
FOSETYL-ALUMINIUM	P07 (33)	Phytophthora root rot	Australia: APVMA nominated for reconsideration after 2029.
IODINE	M	Post-harvest sanitizer	Australia: No current concerns. Canada: Cancelled

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METALAXYL	4	Phytophthora root rot	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Phytophthora root rot	Australia: No current concerns.
PROCHLORAZ	3	Anthrachnose Stem end Rot	Australia: No current concerns. Codex MRL: 7 mg/Kg EU: Not approved
THIRAM	M3	Anthrachnose	Australia:APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for seed treatment.

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HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
DIQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is now expected in Mid 2026. EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
FLUAZIFOP-P	1	Australia: No current concerns
FLUMIOXAZIN	14	Australia: No current concerns. 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. EU: Not approved
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)

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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. Candidate chemical recommended to be listed to Rotterdam Convention. Codex MRL: 0.01 mg/Kg EU: Not approved Canada: Cancelled USA: Restricted use
PENDIMETHALIN	3	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)

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.

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

Active constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Post-harvest treatment to improve quality	Australia: No current concerns
PACLOBUTRAZOL	Growth control and fruit drop control Permit85877 Vegetative growth management	Australia: No current concerns Permit PER85877 Expiry date: 31/05/2026
FLUDIOXONIL AZOXYSTROBIN	Controls certain post-harvest diseases in avocados	FLUDIOXONIL Australia: No current concerns. Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution. AZOXYSTROBIN Australia: No current concerns. Canada: In re-evaluation

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