

# Avocado

## Agrichemical Regulatory Risk Assessment

May 2026

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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. This report provides details of CODEX MRLs as a means of highlighting risks for countries that rely on CODEX, however does not include every instance of where an importing country specific MRL is less than the relevant Australian MRL. The Australian Department of Agriculture Fisheries and Forestry provides information directly to grower bodies when MRLs change in other countries.

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 Avocado 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/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: <a href="#">APVMA nominated for reconsideration and spray drift assessment.</a> Codex MRL: 0.01 mg/Kg Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
ACETAMIPRID	4A	Tea red spider mite	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. UK: Withdrawn (2033). Canada: In re-evaluation
ACETAMIPRID + PYRIPROXYFEN	4A + 7C	Banana / fruit-spotting bugs	<b>ACETAMIPRID</b> Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. UK: Withdrawn (2033). Canada: In re-evaluation <b>PYRIPROXYFEN</b> Australia: No current concerns.
AMMONIUM ACETATE	--	Mediterranean Fruit Fly	Australia: No current concerns Permit PER96797 Expiry date: 30/04/2031 EU: Not approved
BACILLUS THURINGIENSIS	11A	Armyworm Helicoverpa Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	Australia: No current concerns.
BETA-CYFLUTHRIN	3A	Banana / fruit-spotting bugs	Australia: No current concerns.
BIFENAZATE	20D	PER89167 for the control of Mites	Australia: No current concerns. UK: Withdrawn (2029). Canada: In re-evaluation Permit PER89167 Expiry date: 31/03/2027
CARBARYL	1A	Red shouldered leaf beetle	Australia: Codex - being considered for periodic review EU: Not approved Canada: In re-evaluation

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CHLORANTRANILIPROLE	28	PER81560 for the control of Lepidoptera	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: <a href="#">The chemical review was completed in September 2024</a> . 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
COPPER	--	Snails	Australia: No current concerns.
CYCLANILIPROLE	28	Fruit spotting bug Banana spotting bug Fruit spotting bug (Amblypelta nitida) Banana spotting bug (A. lutescens lutescens)	Australia: No current concerns. EU: Not approved
DELTA METHRIN	3A	Mediterranean Fruit Fly	Australia: No current concerns. Permit PER96797 Expiry date: 30/04/2031
DIMETHOATE	1B	Queensland fruit fly	Australia: APVMA: Chemical Review <a href="#">prioritised to be commenced by 2029</a> . Codex MRL: 2 mg/Kg EU: Not approved Canada: In re-evaluation
ETOXAZOLE	10B	PER85167 for the control of Six-spotted mite Tea Red Spider Mite	Australia: No current concerns. Permit PER85167 Expiry date: 29/02/2028 EU: Approved, candidate for substitution
FENBUTATIN OXIDE	12B	Six-spotted mite	Australia: <a href="#">APVMA nominated for reconsideration after 2029</a> . EU: Not approved Canada: In re-evaluation
FIPRONIL	2B	European Wasp	Australia: APVMA: Proposed Regulatory decision was expected by April 2026. APVMA is now advising the by end of 2026 at the earliest. Permit PER89402 Expiry date: 30/04/2027 EU: Not approved
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
METALDEHYDE	--	Snails and slugs	Australia: No current concerns Canada: In re-evaluation

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METHOMYL	1A	PER14597 for the control of Ectropis looper.	Australia: APVMA reconsideration. Was to start 2026. APVMA to publish a new Chemical Review priority list by mid 2026. Permit PER14597 Expiry date: 31/03/2027 EU: Not approved Canada: In re-evaluation
METHOXYFENOZIDE	18	Avocado leafroller	Australia: No current concerns. Codex MRL: 0.7 mg/Kg EU: Not approved Canada: In re-evaluation
PARAFFIN OIL   PETROLEUM OIL	UN	Scale insects	<b>PARAFFIN OIL</b> Australia: No current concerns. <b>PETROLEUM OIL</b> Australia: No current concerns. EU: Not approved
PIPERONYL BUTOXIDE   BETACYFLUTHRIN	3A	Fruit spotting bug	<b>PIPERONYL BUTOXIDE</b> Australia: No current concerns. <b>BETACYFLUTHRIN</b> Australia: No current concerns. EU: Not approved
PUTRESCINE	--	Mediterranean Fruit Fly	Australia: No current concerns Permit PER96797 Expiry date: 30/04/2031
PYRETHRINS	3A	Greenhouse thrips	Australia: No current concerns.
SPINETORAM	5	Avocado leafroller	Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Not approved Canada: In re-evaluation
SPINOSAD	5	Avocado leafroller PER89870 for the control of Fall Armyworm	Australia: No current concerns. Canada: In re-evaluation Permit PER89870 Expiry date: 31/10/2030
SULFOXAFLOR	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: 30/04/2031

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<b>TRICHLORFON</b>	1B	Banana / fruit-spotting bugs PER12450 for the control of Fruit fly	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> EU: Not approved Canada: Cancelled Permit PER12450 Expiry date: 31/08/2030
<b>TRIMETHYLAMINE HYDROCHLORIDE</b>	--	Mediterranean Fruit Fly	Australia: No current concerns Permit PER96797 Expiry date: 30/04/2031 EU: Not approved

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**FUNGICIDES – Disease Control**

*Blue text = new APVMA approved uses*

Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	Anthracoze	Australia: No current concerns. Codex MRL: 1.5 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation
AZOXYSTROBIN + FLUDIOXONIL	11 + 12	Side rot	<b>AZOXYSTROBIN</b> Australia: No current concerns. Codex MRL: 1.5 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation  <b>FLUDIOXONIL</b> Australia: No current concerns. Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution
BACILLUS AMYLOLIQUEFACIENS STRAIN QST 713	BM02	Anthracoze (suppression only) Stem end rot (suppression only)	Australia: No current concerns.
COPPER	M1	Anthracoze	Australia: No current concerns.
CYPRODINIL   FLUDIOXONIL	9 + 12	PER96024 for the control of Anthracnose	<b>CYPRODINIL</b> Australia: No current concerns. Codex MRL: 1 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation  <b>FLUDIOXONIL</b> Australia: No current concerns. Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution
DIFENOCONAZOLE	3	PER96024 for the control of Anthracnose	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Permit PER96024 Expiry date: 30/09/2028 Codex MRL: 0.6 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation

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R4	No current risk/concerns

<b>FLUOPYRAM + TRIFLOXYSTROBIN</b>	7 + 11	Anthracnose	<b>FLUOPYRAM</b> Australia: No current concerns. <b>TRIFLOXYSTROBIN</b> Australia: No current concerns.
<b>FOSETYL-ALUMINIUM</b>	P07 (33)	Phytophthora root rot	Australia: <a href="#">Nominated for reconsideration after 2029</a>
<b>IODINE</b>	M	Post-harvest sanitizer	Australia: No current concerns. Canada: Cancelled
<b>METALAXYL</b>	4	Phytophthora root rot	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation
<b>PHOSPHOROUS (PHOSPHONIC) ACID</b>	P07 (33)	Phytophthora root rot	Australia: No current concerns.
<b>PROCHLORAZ</b>	3	Anthracnose Stem end Rot	Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Not approved
<b>THIRAM</b>	M3	Anthracnose	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> EU: Not approved Canada: Only approved for seed treatment.

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### HERBICIDES – Weed Control

*Blue text = new APVMA approved uses*

Active Constituent	MoA Group	Risks and Comments
DIQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is expected in Mid 2026. EU: Not approved
FLUAZIFOP-P	1	Australia: No current concerns
FLUMIOXAZIN	14	Australia: No current concerns. Canada: In re-evaluation
GLUFOSINATE-AMMONIUM	10	Australia: <a href="#">Nominated for targeted spray drift reconsideration</a> EU: Not approved Canada: In re-evaluation
GLYPHOSATE	9	Australia: <a href="#">Nominated for targeted spray drift reconsideration</a> USA: Under Registration Review (scheduled)
HALOXYFOP	1	Australia: No current concerns. EU: Not approved
ORYZALIN	3	Australia: No current concerns. EU: Not approved
OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)
PARAQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is 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)

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R4	No current risk/concerns

### FUMIGANTS

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Active Constituent	Use	Risks and Comments
<b>1,3-DICHLOROPROPENE</b>	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Pending Canada: Cancelled
<b>CHLOROPICRIN</b>	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Not approved USA: Restricted use
<b>CHLOROPICRIN + 1,3-DICHLOROPROPENE</b>	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	<b>CHLOROPICRIN</b> Australia: No current concerns. EU: Not approved USA: Restricted use  <b>1,3-DICHLOROPROPENE</b> Australia: No current concerns. EU: Pending Canada: Cancelled
<b>ETHANEDINITRILE</b>	Soil borne pathogens, nematodes and weeds	Australia: No current concerns.
<b>METHAM PRESENT AS SODIUM SALT</b>	Germinating weeds and soil-borne fungus diseases	Australia: No current concerns.
<b>METHYL BROMIDE</b>	Disinfestation treatment of commodities	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Permit PER96144 Expiry date: 31/01/2031 EU: Not approved Canada: Remaining pre-plant soil fumigation uses were cancelled (June 2025) USA: Restricted use

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R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

**PLANT GROWTH REGULATORS AND OTHERS**

*Blue text = new APVMA approved uses*

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Post-harvest treatment to improve quality	Australia: No current concerns UK: Withdrawn (2034).
FLUDIOXONIL	Growth control and fruit drop control	Australia: No current concerns. Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution
FLUDIOXONIL   AZOXYSTROBIN	Controls certain post-harvest diseases in avocados	<b>FLUDIOXONIL</b> Australia: No current concerns. Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution  <b>AZOXYSTROBIN</b> Australia: No current concerns. Codex MRL: 1.5 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation

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Communications Manager  
Hort Innovation  
Level 7, 141 Walker Street  
North Sydney NSW 2060  
Australia

Email: [communications@horticulture.com.au](mailto:communications@horticulture.com.au)

Phone: 02 8295 2300