

# Papaya

## 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Papaya 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

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### INSECTICIDES/MITICIDES/NEMATICIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	Two-spotted (red spider) mite (PER14097)	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)
ABAMECTIN   FENBUTATIN OXIDE	6 + 12B	PER14097 for the control of Two-spotted mite	<b>ABAMECTIN</b> 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) <b>FENBUTATIN OXIDE</b> Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: In re-evaluation
ACETAMIPRID	4A	Anthrachnose (Colletotrichum spp.) (suppression only), stem end rot (suppression only)	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	PER89943 for the control of Fruit Spotting Bugs Mealybugs Scale Insects Plant Hoppers Leafhoppers Suppression only: Mediterranean Fruit Fly Queensland Fruit Fly.	<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. Permit PER87728 Expiry date: 28/02/2027 Codex MRL: 0.3 mg/Kg

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AMMONIUM ACETATE	--	Mediterranean Fruit Fly	Australia: No current concerns Permit PER96797 Expiry date: 30/04/2031 EU: Not approved
BACILLUS THURINGIENSIS	11A	Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	Australia: No current concerns.
BETACYFLUTHRIN	3A	PER13671 for the control of Fruit-spotting bug and Banana-spotting bug	Australia: No current concerns. Permit PER13671 Expiry date: 30/11/2027 EU: Not approved
BIFENAZATE	20D	Two-spotted (red spider) mite	Australia: No current concerns. UK: Withdrawn (2029). Canada: In re-evaluation
DELTAMETHRIN	3A	Mediterranean Fruit Fly	Australia: No current concerns. Permit PER96797 Expiry date: 30/04/2031 Codex MRL: 0.2 mg/Kg
DIMETHOATE	1B	PER13859 for the control of fruit fly	Australia: APVMA: Chemical Review <a href="#">prioritised to be commenced by 2029</a> . Permit PER13859 Expiry date: 31/05/2030 EU: Not approved Canada: In re-evaluation
ETOXAZOLE	10B	PER14098 for the control of Two-spotted mite	Australia: No current concerns. Permit PER14098 Expiry date: 31/03/2028 EU: Approved, candidate for substitution
FIPRONIL	2B	Queensland fruit fly (trap toxicant)	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

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FLUPYRADIFURONE	4D	Banana-spotting bug / fruit spotting bug Green plant hopper Mango plant hopper Tropical fire ant Red imported fire ant	Australia: No current concerns.
INDOXACARB	22A	Tropical fire ant	Australia: No current concerns. EU: Not approved
ISOCYCLOSERAM	30	PER96412 for the control of Two-spotted mite	Australia: No current concerns. Permit PER96412 Expiry date: 31/01/2031
MALATHION	1B	Queensland fruit fly Fruit fly (PER1205 Qld only) Fruit flies (attractant)	Australia: The final regulatory decision was published in an <a href="#">APVMA Special Gazette on 2 May 2024</a> . Labels have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026. Canada: In re-evaluation
METALDEHYDE	--	For the control of snails and slugs	Australia: No current concerns Canada: In re-evaluation
ORANGE OIL	--	Two spotted mite Suppression: Green peach aphid Melon aphid	Australia: No current concerns.
PUTRESCINE	--	Mediterranean Fruit Fly	Australia: No current concerns Permit PER96797 Expiry date: 30/04/2031
PYRETHRINS	3A	Ants Aphids Caterpillars Leafhoppers Thrips Whiteflies	Australia: No current concerns.
PYRIPROXYFEN	7C	PER87728 for the control of Red imported fire ants	Australia: No current concerns. Permit PER87728 Expiry date: 28/02/2027 Codex MRL: 0.3 mg/Kg
SPINETORAM	5	Flower eating caterpillars Leafroller moths Loopers Red banded thrips Sorghum head caterpillar Yellow peach moth	Australia: No current concerns. EU: Not approved Canada: In re-evaluation

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SPINOSAD	5	Flower eating caterpillars Fruit flies Leafroller moths Loopers Mediterranean fruit fly Queensland fruit fly Red banded thrips Sorghum head caterpillar Yellow peach moth PER96806 for the control of Fall Armyworm	Australia: No current concerns. Permit PER96806 Expiry date: 30/05/2031
SULFOXAFLO	4C	Banana-spotting bug / fruit spotting bug	Australia: No current concerns.
TRICHLORFON	1B	Fruit spotting bug Banana spotting bug PER12450 for the control of Fruit fly	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Permit PER12450 Expiry date: 31/08/2030 EU: Not approved Canada: Cancelled
TRIMETHYLAMINE HYDROCHLORIDE	--	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
Bacillus amyloliquefaciens STRAIN QST 713	BM02	Suppression only: Anthracnose Stem end rot	Australia: No current concerns.
CHLOROTHALONIL	M5	PER12592 for the control of Black spot & Brown spot	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2028.</a> Permit PER12592 Expiry date: 31/01/2030 Codex MRL: 20 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	PER94006 for the control of Diplodia & pink disease PER14417 for the control of Phytophthora fruit rot	Australia: No current concerns. Permit PER94006 Expiry date: 31/08/2029 Permit PER14417 Expiry date: 30/09/2029
DIFENOCONAZOLE	3	PER12592 for the control of Black spot	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Permit PER12592 Expiry date: 31/01/2030 Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation
FLUDIOXONIL	12	PER89170 for the control of Anthracnose and Stem End Rot	Australia: No current concerns. Permit PER89170 Expiry date: 28/02/2029 Codex MRL: 5 mg/Kg EU: Approved, candidate for substitution
FLUOPYRAM	7	Powdery mildew	Australia: No current concerns.
FLUOPYRAM + TRIFLOXYSTROBIN	7 + 11	Black spot Brown spot	<b>FLUOPYRAM</b> Australia: No current concerns. <b>TRIFLOXYSTROBIN</b> Australia: No current concerns. Codex MRL: 0.6 mg/Kg Canada: In re-evaluation

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IODINE	M	Bactericide	Australia: No current concerns. Canada: Cancelled
MANCOZEB	M3	Black spot	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> EU: Not approved USA: Under Registration Review (scheduled)
METALAXYL-M	4	PER14490 for the control of Phytophthora root rot & Pythium	Australia: No current concerns. Permit PER14490 Expiry date: 31/03/2027
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	PER14490 for the control of Phytophthora root rot & Pythium	Australia: No current concerns. Permit PER14490 Expiry date: 31/03/2027
PROCHLORAZ	3	Anthracoze Stem end rot	Australia: No current concerns. EU: Not approved
PROPAMOCARB	28	PER91912 for the control of Damping off	Australia: No current concerns. Permit PER91912 Expiry date: 31/12/2026
SULPHUR	M2	Powdery mildew	Australia: No current concerns. Canada: In re-evaluation
TEBUCONAZOLE	3	Black spot	Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)
TRIADIMENOL	3	Powdery mildew	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> EU: Not approved Canada: Cancelled
TRIFLOXYSTROBIN	11	Powdery mildew	Australia: No current concerns. Codex MRL: 0.6 mg/Kg Canada: In re-evaluation

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### HERBICIDES - Weed Control

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Active Constituent	MoA Group	Risks and Comments
CARFENTRAZONE-ETHYL	14	Australia: No current concerns. UK: Withdrawn (2033). Canada: In re-evaluation
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
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

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### FUMIGANTS

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Active Constituent	Use	Risks and Comments
1,3-DICHLOROPROPENE	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Pending Canada: Cancelled
CHLOROPICRIN	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Not approved USA: Restricted use
CHLOROPICRIN + 1,3-DICHLOROPROPENE	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
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.
METHYL BROMIDE	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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### PLANT GROWTH REGULATORS AND OTHERS

*Blue text = new APVMA approved uses*

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Post-harvest for improved fruit quality.	Australia: No current concerns UK: Withdrawn (2034).
ETHEPHON	PER80746 for the control of Crop ripening	Australia: No current concerns Permit PER80746 Expiry date: 30/06/2030

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