

Mango

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Mango 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
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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
ACETAMIPRID + PYRIPROXYFEN	4A + 7C	Banana-spotting bug / fruit-spotting bug	<p>ACETAMIPRID Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. UK: Withdrawn (2033). Canada: In re-evaluation USA: Under Registration Review (scheduled)</p> <p>PYRIPROXYFEN Australia: No current concerns. Codex MRL: 0.02 mg/Kg</p>
AMMONIUM ACETATE	--	Mediterranean Fruit Fly	<p>Australia: No current concerns Permit PER96797 Expiry date: 30/04/2031 EU: Not approved</p>
BACILLUS THURINGIENSIS	11A	Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	<p>Australia: No current concerns.</p>

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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 Mango tip borer Flatid planthopper Green vegetable bug Lychee stink bug Yellow peach moth	Australia: No current concerns. Permit PER80374 Expiry date: 30/06/2028 EU: Not approved
BIFENTHRIN	3A	Termites (tree establishment – non-fruit bearing)	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved Canada: Cancelled
BUPROFEZIN	16	Mango scales	Australia: No current concerns. Codex MRL: 0.1 mg/Kg
CARBARYL	1A	PER13484 for the control of Mango Leafhoppers	Australia: Codex - being considered for periodic review Permit PER13484 Expiry date: 31/05/2030 EU: Not approved Canada: In re-evaluation
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
CLOTHIANIDIN	4A	PER83944 for the control of Fruit Fly	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit PER83944 Expiry date: 31/01/2028 Codex MRL: 0.04 mg/Kg EU: Not approved Canada: In re-evaluation
COPPER	--	Snails	Australia: No current concerns.
DELTAMETHRIN	3A	Mediterranean Fruit Fly	Australia: No current concerns. Permit PER96797 Expiry date: 30/04/2031

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DIMETHOATE	1B	Lesser Queensland fruit fly (cover spray)	Australia: APVMA: Chemical Review prioritised to be commenced by 2029 . EU: Not approved Canada: In re-evaluation
ETOXAZOLE	10B	PER87232 for the control of Tea Red Spider Mite	Australia: No current concerns. Permit PER87232 Expiry date: 30/11/2026 EU: Approved, candidate for substitution
FIPRONIL	2B	PER92765 for the control of Giant northern termite PER89402 for the control of 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 PER92765 Expiry date: 30/09/2027 Permit PER89402 Expiry date: 30/04/2027 EU: Not approved
FLUPYRADIFURONE	4D	Banana-spotting bug / fruit spotting bug	Australia: No current concerns.
MALATHION	1B	PER83998 for the control of Fruit flies including Queensland Fruit Fly & Mediterranean Fruit Fly	Australia: The final regulatory decision was published in an APVMA Special Gazette on 2 May 2024 . Labels have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026. Permit PER83998 Expiry date: 31/07/2026 Canada: In re-evaluation
METALDEHYDE	--	Snails and slugs	Australia: No current concerns Canada: In re-evaluation
METHOMYL	1A	PER84427 for the control of Redbanded thrips; Chilli thrips; Banana flower thrips and Tomato thrips	Australia: APVMA reconsideration. Was to start 2026. APVMA to publish a new Chemical Review priority list by mid 2026. Permit PER84427 Expiry date: 31/12/2028 EU: Not approved Canada: In re-evaluation
METHOXYFENOZIDE	18	PER91798 for the control of Mango shoot looper	Australia: No current concerns. Permit PER91798 Expiry date: 31/12/2027 EU: Not approved Canada: In re-evaluation
PARAFFIN OIL	--	Mango seed weevil	Australia: No current concerns.
PUTRESCINE	--	Mediterranean Fruit Fly	Australia: No current concerns Permit PER96797 Expiry date: 30/04/2031
PYRETHRINS	3A	Fruitfly, Rutherglen bug, Spiders	Australia: No current concerns.
PYRIPROXYFEN	7C	Mango scales	Australia: No current concerns. Codex MRL: 0.02 mg/Kg

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SPINETORAM	5	Flower eating caterpillars	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved Canada: In re-evaluation
SPINOSAD	5	Flower eating caterpillars PER89870 for the control of Fall Armyworm	Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030 Codex MRL: 0.01 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Citrus mealybug	Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Not approved Canada: In re-evaluation
SULFOXAFLOX	4C	Banana-spotting bug / fruit-spotting bug	Australia: No current concerns. Codex MRL: 0.3 mg/Kg
TETRANILIPROLE	28	Mango seed weevil PER92133 for the control of Mango shoot looper	Australia: No current concerns. Permit PER92133 Expiry date: 30/06/2030
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 and Green Vegetable 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
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
AZOXYSTROBIN	11	Anthracoze Stem-end rot	Australia: No current concerns. Codex MRL: 4 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation
BACILLUS AMYLOLIQUEFACIENS STRAIN QST 713	BM02	Anthracoze Stem-end rot	Australia: No current concerns.
CHLOROTHALONIL	M5	Anthracoze PER14830 for the control of Anthracnose	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled) Permit PER14830 Expiry date: 31/08/2030
COPPER	M1	Anthracoze Bacterial black spot PER94006 for the control of Diplodia & pink disease	Australia: No current concerns. Permit PER94006 Expiry date: 31/08/2029
FLUDIOXONIL	12	Anthracoze Dendritic post Stem-end rot	Australia: No current concerns. Codex MRL: 7 mg/Kg EU: Approved, candidate for substitution
IODINE	M	Bactericide	Australia: No current concerns. Canada: Cancelled
MANCOZEB	M3	Anthracoze	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)
METIRAM	M3	Anthracoze Powdery mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for foliar applications in potato crops.
PROCHLORAZ	3	Alternaria rot Anthracoze Blossom blight	Australia: No current concerns. EU: Not approved

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PYRACLOSTROBIN + FLUXAPYROXAD	11 + 7	Anthracnose Powdery mildew	<p>PYRACLOSTROBIN Australia: No current concerns. Codex MRL: 0.6 mg/Kg Canada: In re-evaluation</p> <p>FLUXAPYROXAD Australia: No current concerns. Codex MRL: 0.6 mg/Kg</p>
PYRACLOSTROBIN + METIRAM	11 + M3	Anthracnose Powdery mildew Stem-end rot	<p>PYRACLOSTROBIN Australia: No current concerns. Codex MRL: 0.6 mg/Kg Canada: In re-evaluation</p> <p>METIRAM Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for foliar applications in potato crops.</p>
THIRAM	M3	Anthracnose	<p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for seed treatment.</p>

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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
CLETHODIM	1	Australia: No current concerns.
DIQUAT	22	Australia: APVMA: Currently under review . 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: Nominated for targeted spray drift reconsideration EU: Not approved Canada: In re-evaluation
GLYPHOSATE	9	Australia: Nominated for targeted spray drift reconsideration USA: Under Registration Review (scheduled)
HALOXYFOP	1	Australia: No current concerns. EU: Not approved
ISOXABEN	29	Australia: No current concerns.
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: Currently under review . 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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PENDIMETHALIN	3	Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)
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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	CHLOROPICRIN Australia: No current concerns. EU: Not approved USA: Restricted use 1,3-DICHLOROPROPENE 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: APVMA nominated for reconsideration after 2029. 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	Improve post-harvest fruit quality.	Australia: No current concerns UK: Withdrawn (2034).
DIDECYLDIMETHYLAMMONIUMCHLORIDE	Sanitizer	Australia: No current concerns.
ETHEPHON	PER91560 for the control of Dry Season Vegetative Flushes	Australia: No current concerns Permit PER91560 Expiry date: 30/11/2026
PACLOBUTRAZOL	Reduce vegetative growth.	Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation

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