

Custard apple 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 custard apple 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/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	Two-spotted spider mite and banana spotted mite	Australia: APVMA nominated for reconsideration and spray drift assessment . Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
ACETAMIPRID PYRIPROXYFEN	4A + 7C	PER89943 for the control of Mealybugs Scale insects Fruit Spotting Bugs Suppression of Mediterranean Fruit Fly and Queensland Fruit Fly	Permit PER89943 Expiry date: 30/09/2027 ACETAMIPRID Australia: 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.
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
BUPROFEZIN	16	Mealy bugs Scale insects	Australia: No current concerns.

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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 USA: Agricultural uses cancelled. Very few registrations as Restricted Use Pesticide.
CLOTHIANIDIN	4A	PER84992 for the control of Citrus Mealy Bug	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December2025 to October2026. Permit PER84992 Expiry date: 31/12/2027 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
DIMETHOATE	1B	PER13859 for the control of fruit fly	Australia: APVMA reconsideration. Prioritised to be commenced by 2029 . Permit PER13859 Expiry date: 31/05/2030 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
ETOXAZOLE	10B	PER14227 for the control of Two spotted mite, Banana Spider mite	Australia: No current concerns. Permit PER14227 Expiry date: 30/04/2028 EU: Approved, candidate for substitution.
FIPRONIL	2B	PER87605 for the control of Ants	Australia: APVMA: Currently under review . Proposed Regulatory decision expected by April 2026. Permit PER87605 Expiry date: 30/06/2026 EU: Not approved USA: Under Registration Review (scheduled)
FLUPYRADIFURONE	4D	Banana spotting bug / fruit spotting bugs Green plant hopper Mango plant hopper	Australia: No current concerns.

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METHOXYFENOZIDE	18	Yellow peach moth	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: In re-evaluation
PARAFFINIC OIL	UNM	Scale insects	Australia: No current concerns.
PYRETHRINS	3A	Fruitfly, Rutherglen bug, Spiders	Australia: No current concerns.
SPINETORAM	5	Flower eating caterpillars Leafroller caterpillars Loopers Sorghum head caterpillar Yellow peach moth	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	Flower eating caterpillars Ivy leaf roller Light brown apple moth Loopers Sorghum head caterpillar Yellow peach moth 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-spotting bug Fruit-spotting bug	Australia: No current concerns.
TEBUFENOZIDE	18	Yellow peach moth	Australia: No current concerns.

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TRICHLORFON	1B	<p>PER14743 for the control of Flatid Planthopper Flower-eating Caterpillar Loopers Yellow Peach Moth</p> <p>PER12450 for the control of Fruit fly</p> <p>Suppression only: Fruit-spotting Bug, Banana-spotting Bug and Green Vegetable Bug.</p>	<p>Australia: APVMA nominated for reconsideration after 2029.</p> <p>Permit PER14743 Expiry date: 28/02/2030</p> <p>Permit PER12450 Expiry date: 31/08/2030</p> <p>EU: Not approved</p> <p>Canada: Cancelled</p> <p>USA: Under Registration Review (scheduled)</p>

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
<i>Bacillus amyloliquefaciens</i> STRAIN QST 713	BM02	Suppression only: Anthracnose Stem end rot	Australia: No current concerns.
COPPER	M1	<p>Anthracnose Purple blotch Pseudocercospora</p> <p>PER94006 for the control of Diplodia & pink disease</p>	<p>Australia: No current concerns.</p> <p>Permit PER94006 Expiry date: 31/08/2029</p>

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COPPER MANCOZEB	M1 + M3	PER11943 for the control of Anthracnose	<p>Permit PER11943 Expiry date: 30/04/2027</p> <p>COPPER Australia: No current concerns.</p> <p>MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)</p>
FLUOPYRAM TEBUCONAZOLE	3 + 7	Anthracnose	<p>FLUOPYRAM Australia: No current concerns.</p> <p>TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)</p>
MANCOZEB	M3	Anthracnose Pseudocercospora	<p>Australia:APVMA reconsideration.Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)</p>
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	PER13807 for the control of Phytophthora	<p>Australia: No current concerns. Permit PER13807 Expiry date: 31/07/2027</p>

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PROCHLORAZ MANCOZEB	3 + M3	PER83212 for the control of Anthracnose	<p>Permit PER83212 Expiry date: 31/01/2028</p> <p>PROCHLORAZ Australia: No current concerns. Codex MRL: 7 mg/Kg EU: Not approved</p> <p>MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)</p>
PYRACLOSTROBIN	11	PER13952 for the control of Pseudocercospora leaf spot	<p>Australia: No current concerns. Permit PER13952 Expiry date: 31/08/2026 Canada: In re-evaluation</p>

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HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CARFENTRAZONE-ETHYL	14	Australia: No current concerns. Canada: In re-evaluation
CLETHODIM	1	Australia: No current concerns.
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
GLYPHOSATE	9	Australia: APVMA 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 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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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

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
UNICONAZOLE-P	PER13951 for use as Plant Growth Regulator	Australia: No current concerns Permit PER13951 Expiry date: 31/03/2028 Canada: In re-evaluation
ZINC PHOSPHIDE	PER93053 for the control of Rats & mice	Australia: No current concerns. Permit PER93053 Expiry date: 30/11/2025 UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)

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