

Lychee (Litchi)

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 **lychees** 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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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	Litchi erinose mite Two-spotted spider 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: Fruit Spotting Bugs Mealybugs Scale insects Plant hoppers leafhoppers Suppression of Mediterranean Fruit Fly and Queensland Fruit Fly.	Australia: Permit PER89943 Expiry date: 30/09/2027 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.
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

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BUPROFEZIN	16	PER88401 for the control of Mealybug, Flatid Plant Hoppers and Scale Insects	Australia: No current concerns. Permit PER88401 Expiry date: 31/05/2030
CARBARYL	1A	Macadamia nut borer Red shouldered leaf beetle Swarming leaf beetles Yellow peach moth	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
DIMETHOATE	1B	Litchi erinose mite PER13859 for the control of fruit fly	Australia:APVMA reconsideration. Prioritised to be commenced by 2029. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
POTASSIUM SALTS OF FATTY ACIDS	--	Aphids Thrips Mealybug Two-spotted mite Spider mite Whitefly	Australia: No current concerns. Canada: In re-evaluation
FLUPYRADIFURONE	4D	Banana spotting bug / fruit spotting bugs Green plant hopper Mango plant hopper	Australia: No current concerns.
METHOXYFENOZIDE	18	Macadamia nut borer PER91798 for the control of Mango shoot looper	Australia: No current concerns. Permit PER91798 Expiry date: 31/12/2027 EU: Approved, candidate for substitution. Canada: In re-evaluation
ORANGE OIL	--	Erinose mite Scale Mealybug	Australia: No current concerns.

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PARAFFINIC OIL	UNM	Citrus mealybug Green shield scale (PER91168) Scale insects Soft green scale (PER91168) Soft scales (PER91168)	Australia: No current concerns.
Petroleum Oil	UN	PER91168 for the control of Green shield scale, soft green & soft scales	Australia: No current concerns. Permit PER91168 Expiry date: 31/08/2026 EU: Not approved
PYRETHRINS	3A	Fruit flies Rutherglen bug Spiders	Australia: No current concerns.
PYRIPROXYFEN	7C	PER87728 for the control of Red imported fire ants	Australia: No current concerns. Permit PER87728 Expiry date: 28/02/2026
SPINETORAM	5	Flower eating caterpillars Leafroller caterpillars Loopers Red banded thrips Sorghum head caterpillar Yellow peach moth	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	Flower eating caterpillars Leafroller caterpillars Loopers Red banded thrips 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

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SULFOXAFLO	4C	Banana-spotting bug Fruit-spotting bug Mealybug White louse scale	Australia: No current concerns.
SULFUR	UN	PER91169 for the control of Lychee Erino mite & White Louse Scale	Australia: No current concerns. Permit PER91169 Expiry date: 31/08/2026
TEBUFENOZIDE	18	Macadamia nut borer	Australia: No current concerns.
TETRANILIPROLE	28	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 USA: Under Registration Review (scheduled)

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FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
<i>Bacillus amyloliquefaciens</i> STRAIN QST 713	BM02	Anthracnose (<i>Colletotrichum</i> spp.) (suppression only), stem end rot (suppression only)	Australia: No current concerns.
COPPER	M1	Phytophthora Trunk (stem) canker PER13660 for the control of Lychee pepper spot.	Australia: No current concerns. Permit PER13660 Expiry date: 30/04/2027
CYPRODINIL FLUDIOXONIL	9 + 12	PER82879 for the control of Lychee Pepper Spot and Anthracnose.	Permit PER82879 Expiry date: 30/06/2029 CYPRODINIL Australia: No current concerns. EU: Approved, candidate for substitution. Canada: In re-evaluation FLUDIOXONIL Australia: No current concerns. EU: Approved, candidate for substitution.
FLUOPYRAM TRIFLOXYSTROBIN	7 + 11	Anthracnose / pepper spot	FLUOPYRAM Australia: No current concerns. TRIFLOXYSTROBIN Australia: No current concerns. Canada: In re-evaluation
MANCOZEB	M3	PER13659 for the control of Pepper spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER13659 Expiry date: 30/09/2027 EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)

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PROCHLORAZ	3	PER80369 for the control of Anthracnose or Pepper Spot	Australia: No current concerns. Permit PER80369 Expiry date: 31/08/2030 Codex MRL: 7 mg/Kg EU: Not approved
PYRACLOSTROBIN	11	PER80367 for the control of Anthracnose or Pepper Spot	Australia: No current concerns. Permit PER80367 Expiry date: 31/08/2030 Canada: In re-evaluation

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
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)

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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)
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)

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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 (<i>Xanthomonas</i> 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.

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

Active Constituent	Use	Risks and Comments
ETHEPHON	Management of unwanted vegetative flush	Australia: No current concerns Permit PER95768 Expiry date: 31/01/2030
TRICLOPYR	Reduction of fruit drop	Australia: APVMA Nominated for targeted spray drift reconsideration

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