



Litchi / Lychee Agrichemical Regulatory Risk Assessment June 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 a 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.

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R1	Short-term risk: Critical concern over retaining access < 1 year
R2	Medium-term risk: Maintaining access of significant concern <2-5 years
R3	Long-term risk: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk / concerns

Blue text = new APVMA approved uses

INSECTS AND OTHER PESTS

Active constituent	MoA group	Insects and other pests	Risks & Comments
Abamectin	6	Litchi erinose mite	Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Approved. Canada: In review.
		Two-spotted spider mite	
Acetamiprid + pyriproxyfen	4A + 7C	Fruit flies – suppression (PER89943)	PER89943 expires 30/11/2025. Acetamiprid: Australia: APVMA: Currently under review . Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. EU: Approved. UK: Approved. Canada: In review. USA: Upcoming review. Pyriproxyfen: EU: Approved. UK: Approved. Canada: No current review.
		Fruit-spotting bug (PER89943)	
		Mealybugs (PER89943)	
		Plant and leaf hoppers (PER89943)	
Beta-cyfluthrin	3A	Banana spotting bug (PER80374)	PER80374 expires 31/08/2025.
		Elephant / rhinoceros beetle (PER80374)	
		Fig longicorn / trunk borer (PER80374)	
		Fruit-spotting bug (PER80374)	
		Lychee stink bug (PER80374)	
		Macadamia nut borer (PER80374)	
		Mango shoot caterpillar (PER80374)	
		Red shouldered leaf beetle (PER80374)	
		Swarming leaf beetles (PER80374)	
		Yellow peach moth (PER80374)	
Buprofezin	16	Flatid planthoppers (PER88401)	PER88401 expires 31/05/2030. EU: Approved. UK: Approved. Canada: No current review.
		Mealybugs (PER88401)	
		Scale insects (PER88401)	
Carbaryl	1A	Macadamia nut borer	Australia: No current concerns.

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		Red shouldered leaf beetle	EU: Not approved. Canada: In review. USA: Upcoming review. Codex: Review scheduled, support uncertain.
		Swarming leaf beetles	
		Yellow peach moth	
Dimethoate	1B	Litchi erinose mite	PER13859 expires 31/05/2030. Australia: APVMA reconsideration . Prioritised to be commenced by 2029. EU: Not approved. Canada: In review. USA: Upcoming review.
		Fruit fly (PER13859 - orchard clean-up post-harvest)	
Fatty acids – K salt	-	Aphids	Australia: No current concerns. Canada: In review.
		Thrips	
		Mealybug	
		Two-spotted mite	
		Spider mite	
		Whitefly	
Flupyradifurone	4D	Banana spotting bug / fruit spotting bugs	
		Green plant hopper	
		Mango plant hopper	
Malathion	1B	Fruit flies (bait spray)	Australia: The final regulatory decision was published in an APVMA Special Gazette on 2 May 2024. Labels containing malathion as an active constituent have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026. . Always check label instructions. EU: Approved. UK: Withdrawn. Canada: In review. USA: Upcoming review. Codex: Re-evaluation scheduled for 2025-2026.
Methoxyfenozide	18	Macadamia nut borer	PER91798 expires 31/12/2025. EU: Approved, candidate for substitution. UK: Approved. Canada: In review.
		Mango shoot looper (PER91798)	
Paraffinic oil / petroleum oil	UNM	Citrus mealybug	PER91168 expires 31/08/2026. Australia: No current concerns.
		Green shield scale (PER91168)	
		Scale insects	
		Soft green scale (PER91168)	

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		Soft scales (PER91168)	
Pyrethrins	3A	Fruit flies	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review.
		Rutherglen bug	
		Spiders	
Pyriproxyfen	7C	Ants	EU: Approved. UK: Approved. Canada: No current review.
Spinetoram	5	Flower eating caterpillars	Australia: No current concerns. EU: Not approved. UK: Withdrawn. Canada: In review. Codex: MRL set at 0.01 mg/kg (2018).
		Leafroller caterpillars	
		Loopers	
		Red banded thrips	
		Sorghum head caterpillar	
		Yellow peach moth	
Spinosad	5	Flower eating caterpillars	PER89870 expires 31/07/2025. Australia: Reviewed in 2014. No current concerns. EU: Approved. UK: Approved. Canada: In review.
		Leafroller caterpillars	
		Loopers	
		Red banded thrips	
		Sorghum head caterpillar	
		Yellow peach moth	
		Fall armyworm (PER89870)	
Sulfoxaflor	4C	Banana-spotting bug	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review.
		Fruit-spotting bug	
		Mealybug	
		White louse scale	
Tebufenozide	18	Macadamia nut borer	EU: Approved. UK: Approved. Canada: No current review.
Tetraniliprole	28	Mango shoot looper (PER92133)	PER92133 expires 31/08/2025. Australia: No current concerns. Canada: No current review.
Trichlorfon	1B	Fruit flies (PER12450)	PER12450 expires 30/11/2025. PER14743 expires 28/02/2030. Australia: APVMA nominated for reconsideration. EU: Not approved. Canada: No current review.
		Fruit flies (bait spray)	
		Banana-spotting bug (PER14743)	
		Flower eating caterpillars (PER14743)	
		Fruit-spotting bug (PER14743)	

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		Loopers (PER14743)	USA: Upcoming review.
		Yellow peach moth (PER14743)	

DISEASES

Active constituent	MoA Group	Disease	Risks & Comments
Copper	M1	Algal spot	PER13660 expires 30/04/2027. EU: Candidates for substitution
		Lychee pepper spot (PER13660)	
		Phytophthora	
		Trunk (stem) canker	
Cyprodinil + fludioxonil	9 + 12	Anthracnose / lychee pepper spot (PER82879)	PER82879 expires 30/06/2029. Cyprodinil: Australia: No current concerns. EU: Approved - candidate for substitution. UK: Approved. Canada: In review. Fludioxonil: Australia: No current concerns. EU: Approved - candidate for substitution. UK: Approved. Canada: No current review.
Fluopyram + trifloxystrobin	7 + 11	Anthracnose / pepper spot	Fluopyram: EU: Approved. UK: Approved. Canada: No current review. Trifloxystrobin: Australia: No current concerns. EU: Approved. UK: Approved. Canada: In review.
Mancozeb	M3	Lychee pepper spot (PER13659)	PER13659 expires 30/09/2027. Australia: APVMA reconsideration . Prioritised to be commenced by 2027. EU: Not approved. UK: Withdrawn. Canada: No current review. USA: Upcoming review. Codex: To be reviewed.
Prochloraz	3	Anthracnose / pepper spot (PER80369)	PER80369 expires 31/10/2025. EU: Not approved.

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			UK: Approved. Codex: Assorted tropical and sub-tropical fruits – inedible peel MRL set at 7 mg/kg (2005). Periodic re-evaluation scheduled.
Pyraclostrobin	11	Anthrachnose / pepper spot (PER80367)	PER80367 expires 31/10/2025. EU: Approved. UK: Approved. Canada: In review.

PLANT GROWTH REGULATORS

Active constituent	Claim	Risks & Comments
Triclopyr (Drop prevention)	Reducing fruit drop.	Australia: APVMA: Nominated for targeted spray drift reconsideration (potential risk to vegetation, and natural aquatic areas).. EU: Approved. UK: Approved.

WEEDS

Active constituent	MoA Group	Weed	Risks & Comments
Carfentrazone-ethyl	14	Various broadleaf weeds and grasses.	EU: Approved. UK: Approved. Canada: In review.
Clethodim (non-bearing)	1	Various grasses.	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review. Codex: MRLs proposed for deletion.
Diquat	22	Various broadleaf weeds and grasses.	APVMA proposed decisions July 2024. . All uses in orchards proposed to be deleted. Publication of the final regulatory decision is expected in December 2025 . Codex: No MRLs. EU: Not approved (withdrawn in 2018). UK: Not approved. USA: Registered (under review).
Fluazifop-p	1	Various grasses.	Australia: APVMA nominated for spray drift reconsideration .. Canada: No current review.

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Glufosinate-ammonium	10	Various broadleaf weeds and grasses.	Australia: APVMA: Nominated for targeted spray drift reconsideration (potential risk to vegetation, natural aquatic and bystander areas). Canada: In review. Codex: Assorted tropical and sub-tropical fruits – inedible peel MRL set at 0.1 mg/kg (2013).
Glyphosate	9	Various broadleaf weeds and grasses.	Australia: APVMA nominated for spray drift reconsideration (potential risk to vegetation and natural aquatic areas). EU: Approved. UK: Approved. Canada: No current review. USA: Upcoming review.
Haloxypop-p	1	Various annual and perennial grasses.	
Oryzalin	3	Various broadleaf weeds and grasses.	EU: Not approved. UK: Withdrawn.
Isoxaben (non-bearing)	29	Various broadleaf weeds.	EU: Approved. UK: Approved. Canada: No current review.
Oxyfluorfen	14	Various broadleaf weeds and grasses.	EU: Approved, candidate for substitution. UK: Withdrawn. Canada: In review. USA: Upcoming review.
Paraquat	22	Various broadleaf weeds and grasses.	APVMA proposed decisions July 2024. All uses in orchards proposed to be deleted. Publication of the final regulatory decision is expected in December 2025 . Codex: Assorted tropical and sub-tropical fruits – inedible peel MRL set at 0.01 mg/kg (2006). Canada: Not approved. EU and UK: Not approved (2007). USA: Restricted use (under review).
Pendimethalin	3	Various broadleaf weeds and grasses.	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: In review. USA: Upcoming review.

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