

## **Almonds**

# **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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 **Almonds** 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	Bryobia mite (Brown almond mite) Two spotted mites	Australia: <a href="#">APVMA nominated for reconsideration and spray drift assessment</a> . Codex MRL: 0.005 mg/Kg Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
BIFENAZATE	20D	Bryobia mite (Brown almond mite) Two spotted mites	Australia: No current concerns. Codex MRL: 0.2 mg/Kg Canada: In re-evaluation
BIFENTHRIN	3A	PER82374 for the control of Brown Marmorated Stink Bug and Yellow Spotted Stink Bug  PER87216 for the control of Carpophilus Beetle & Dried Fruit Beetle	Australia: <a href="#">APVMA nominated for reconsideration after 2029</a> . Permit PER82374 Expiry date: 30/04/2028 Permit PER87216 Expiry date: 28/02/2026 Codex MRL: 0.05 mg/Kg EU: Not approved Canada: Cancelled
CHLORANTRANILIPROLE	28	Carob moth	Australia: No current concerns. Codex MRL: 0.02 mg/Kg Canada: In re-evaluation
CHLORPYRIFOS	1B	-	Australia: <a href="#">The chemical review was completed in September 2024</a> . 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.
CLOFENTEZINE	10A	Bryobia mite (Brown almond mite) Two spotted mites	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved

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Active Constituent	MoA Group	Pest	Risks and Comments
CLOTHIANIDIN	4A	Carob moth Carpophilus beetle (Dried fruit beetle)	Australia: APVMA: <a href="#">Currently under review</a> . Proposed regulatory decisions expected between December 2025 to October 2026. Codex MRL: 0.01 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CYCLANILIPROLE	28	Carob moth ( <i>Ectomyelois ceratoniae</i> ) Carpophilus beetle ( <i>Carpophilus</i> spp)	Australia: No current concerns.
CYFLUMETOFEN	25A	Bryobia mite (Brown almond mite) European red mite Two spotted mites	Australia: No current concerns. Codex MRL: 0.01 mg/Kg
DODECANOL	--	Codling moth Oriental fruit moth	Australia: No current concerns.
ETOXAZOLE	10B	Bryobia mite (Brown almond mite) European red mite Two spotted mites	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Approved, candidate for substitution.
ETOXAZOLE   PIPERONYL BUTOXIDE	10B	Two-spotted Mite European Red Mite	ETOXAZOLE Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Approved, candidate for substitution.  PIPERONYL BUTOXIDE Australia: No current concerns. USA: Under Registration Review (scheduled)
INDOXACARB	22A	Red Imported fire ant Tropical fire ant	Australia: No current concerns. Codex MRL: 0.07 mg/Kg EU: Not approved UK: Withdrawn (2024).

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ISOCYCLOSERAM	30	Carpophilus beetle	Australia: No current concerns.
LAMBDA-CYHALOTHRIN	3A	PER12961 for the control of Mediterranean Fruit Fly & Queensland Fruit Fly	Australia: No current concerns. Permit PER12961 Expiry date: 31/03/2030 EU: Approved, candidate for substitution.
MALATHION	1B	PER13642 for the control of Australian plague locust	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. Permit PER13642 Expiry date: 30/04/2030 UK: Withdrawn (2025). Canada: In re-evaluation USA: Under Registration Review (scheduled)
METHOXYFENOZIDE	18	Carob moth	Australia: No current concerns. Codex MRL: 0.1 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
PARAFFIN OIL	--	Bryobia mite (Brown almond mite) Aphids (eggs) Mites (eggs) Mites San Jose scales Scales	Australia: No current concerns.
PIRIMICARB	1A	Green peach aphid	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: Cancelled

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POTASSIUM SALTS OF FATTY ACIDS	--	Aphids Thrips Mealybug Two spotted mites Spider mite Whitefly	Australia: No current concerns. Canada: In re-evaluation
PYMETROZINE	9B	Green peach aphid	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> EU: Not approved Canada: Cancelled
PYRIPROXYFEN	7C	Invasive and nuisance ants Including: Red imported fire ant Tropical fire ant Bigheaded ant Others	Australia: No current concerns.
SPINETORAM	5	Carob moth	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SULFOXAFLOX	4C	Aphids (adult & larval) Black peach aphid Green peach aphid	Australia: No current concerns. Codex MRL: 0.03 mg/Kg
SULFUR	UN	Bryobia mite (Brown almond mite) Frosted scale San Jose scale	Australia: No current concerns.
TETRANILIPROLE	28	Carpophilus beetle (Dried fruit beetle) Carob moth	Australia: No current concerns. Codex MRL: 0.03 mg/Kg

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## Almonds - Agrichemical Regulatory Risk Assessment

### FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	Anthrachnose Blossom blight / Shoot blight / Brown rot Shot hole Hull rot suppression only Stone fruit rust	Australia: No current concerns. Codex MRL: 0.01 mg/Kg Canada: In re-evaluation
AZOXYSTROBIN + TEBUCONAZOLE	11 + 3	Brown rot / Blossom blight Hull rot suppression only Rust Shot hole	AZOXYSTROBIN Australia: No current concerns. Codex MRL: 0.01 mg/Kg Canada: In re-evaluation  TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 0.05 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
CAPTAN	M4	Blossom blight Nut scab Shot hole Anthrachnose	Australia: No current concerns. Codex MRL: 0.3 mg/Kg
CHLOROTHALONIL	M5	Shot hole Stone fruit rust	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2028.</a> EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Shot hole Leaf curl Brown rot Freckle	Australia: No current concerns.

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CYPRODINIL	9	Blossom blight / Brown rot Rust Shot hole	Australia: No current concerns. Codex MRL: 0.04 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
FLUOPYRAM + TEBUCONAZOLE	7 + 3	Blossom blight Hull rot suppression only Shot hole Stone fruit rust	FLUOPYRAM Australia: No current concerns. Codex MRL: 0.04 mg/Kg  TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 0.05 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
FLUOPYRAM + TRIFLOXYSTROBIN	7 + 11	Blossom blight Hull rot suppression only Shot hole Stone fruit rust	FLUOPYRAM Australia: No current concerns. Codex MRL: 0.04 mg/Kg  TRIFLOXYSTROBIN Australia: No current concerns. Codex MRL: 0.02 mg/Kg Canada: In re-evaluation
FLUXAPYROXAD + PYRACLOSTROBIN	7 + 11	Alternaria leaf spot Anthracnose Blossom blight / Brown rot Hull rot suppression only Scab or freckle Shot hole Leaf rust	FLUXAPYROXAD Australia: No current concerns. Codex MRL: 0.04 mg/Kg  PYRACLOSTROBIN Australia: No current concerns. Codex MRL: 0.02 mg/Kg Canada: In re-evaluation

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IPRODIONE	2	Blossom blight Brown rot	Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Not approved USA: Under Registration Review (scheduled)
ISOPYRAZAM	7	Anthrachnose suppression only Blossom blight / Shoot blight / Brown rot Hull rot suppression only Scab Shot hole Stone fruit rust	Australia: No current concerns. EU: Not approved
MANCOZEB	M3	Brown rot / Blossom blight Rust Shot hole Freckle	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled) <a href="#">CODEX: Proposed for review in 2027.</a>
MEFENTRIFLUCONAZOLE	3	Blossom blight / Brown rot Leaf rust suppression only Shot hole suppression only	Australia: No current concerns. Codex MRL: 0.06 mg/Kg Canada: In re-evaluation
METALAXYL-M	4	PER94212 for the control of Collar rot, crown rot & root rot	Australia: No current concerns. Permit PER94212 Expiry date: 30/11/2025
PENTHIOPYRAD	7	Blossom blight / Brown rot	Australia: No current concerns. Codex MRL: 0.05 mg/Kg
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Phytophthora spp. suppression only	Australia: No current concerns.
POLYOXIN D ZINC SALT	19	Shot hole suppression only Hull rot suppression only	Australia: No current concerns.



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PROPICONAZOLE	3	PER12989 for the control of Blossom blight, Anthracnose	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> Permit PER12989 Expiry date: 31/08/2026 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PYRACLOSTROBIN	11	Rust	Australia: No current concerns. Codex MRL: 0.02 mg/Kg Canada: In re-evaluation
<i>Rhizobium rhizogenes</i> STRAIN K1026	No group	Crown gall	Australia: No current concerns.
SULPHUR	M2	Freckle Leaf curl Rust Shot hole Blossom blight / Brown rot	Australia: No current concerns. Canada: In re-evaluation
TEBUCONAZOLE	3	<i>Botryosphaeria dothidea</i> Dying arm disease	Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 0.05 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)

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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
DIQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is now expected in Mid 2026. EU: Not approved
FLUMIOXAZIN	14	Australia: No current concerns. Codex MRL: 0.02 mg/Kg
GLUFOSINATE-AMMONIUM	10	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> Codex MRL: 0.1 mg/Kg EU: Not approved
GLYPHOSATE	9	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a>
HALOXYFOP	1	Australia: No current concerns. EU: Not approved
INDAZIFLAM	29	Australia: No current concerns. EU: Not approved
ISOXABEN	29	Australia: No current concerns.
NAPROPAMIDE	0	Australia: No current concerns.
NORFLURAZON	12	Australia: No current concerns. EU: Not approved
ORYZALIN	3	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).

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OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Withdrawn (2024).
PARAQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is now expected in Mid 2026. Candidate chemical recommended to be listed to Rotterdam Convention. Codex MRL: 0.05 mg/Kg EU: Not approved
PENDIMETHALIN	3	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Approved, candidate for substitution.
SAFLUFENACIL	14	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved
SIMAZINE	5	Australia: <a href="#">APVMA nominated for reconsideration after 2029</a> . EU: Not approved

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### FUMIGANTS

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 GROWTH REGULATORS AND OTHERS

Active Constituent	Use	Risks and Comments
AMINOETHOXYVINYLGLYCINE	Enhance flower life to improve fruit set	Australia: No current concerns. EU: Not approved
CYANAMIDE	Regulation of bud dormancy	Australia: No current concerns. EU: Not approved Canada: Cancelled

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