

Citrus

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Citrus 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
4-(P-ACETOXYPHENYL)-2-BUTANONE + FIPRONIL	2B	Queensland fruit fly Lesser Queensland fruit fly	<p>4-(P-ACETOXYPHENYL)-2-BUTANONE Australia: No current concerns</p> <p>FIPRONIL Australia: APVMA: Proposed Regulatory decision was expected by April 2026. APVMA is now advising the by end of 2026 at the earliest. EU: Not approved Permit PER94007 Expiry date: 30/11/2026 Permit PER89402 Expiry date: 30/04/2027</p>
4-(P-ACETOXYPHENYL)-2-BUTANONE + MALATHION	1B	Queensland fruit fly Bactrocera (Dacus) tryoni	<p>4-(P-ACETOXYPHENYL)-2-BUTANONE Australia: No current concerns</p> <p>MALATHION 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. Codex MRL: 7 mg/Kg Canada: In re-evaluation</p>
ABAMECTIN	6	Broad mite Brown citrus rust mite Citrus rust (maori) mite Queensland fly (bait spray – spot treatment or strip spray)	<p>Australia: APVMA nominated for reconsideration and spray drift assessment. Codex MRL: 0.02 mg/Kg Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)</p>
ACETAMIPRID	4A	Black (brown olive) scale	<p>Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Codex MRL: 1 mg/Kg UK: Withdrawn (2033). Canada: In re-evaluation</p>

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ACETAMIPRID + PYRIPROXYFEN	4A + 7C	Citrophilus mealybug Citrus leafminer Citrus mealybug Cottony citrus scale Fruit-spotting bugs Kelly's citrus thrips Light brown apple moth Longtailed mealybug Mayely bugs Nigra scale Pink wax scale Pulvinaria scale / red scale Soft brown scale Fruit fly (cover spray)	ACETAMIPRID Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Codex MRL: 1 mg/Kg UK: Withdrawn (2033). Canada: In re-evaluation PYRIPROXYFEN Australia: No current concerns. Permit PER87728 Expiry date: 28/02/2027 Codex MRL: 0.5 mg/Kg
AMITRAZ	19	Citrus red mites	Australia: No current concerns. EU: Not approved
AMMONIUM ACETATE	--	Mediterranean Fruit Fly	Australia: No current concerns Permit PER96797 Expiry date: 30/04/2031 EU: Not approved
BACILLUS THURINGIENSIS	11A	Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	Australia: No current concerns.
BIFENTHRIN	3A	Citrus leaf eating weevil	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.05 mg/Kg EU: Not approved Canada: Cancelled
BUPROFEZIN	16	Jassids Mealy bugs Red scale White louse scale	Australia: No current concerns. Codex MRL: 1 mg/Kg

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CADUSAFOS	1B	Citrus nematode Stubby root nematode	Australia: No current concerns.
CARBARYL	1A	Bronze orange bug Citrus butterflies (larvae) Citrus leaf eating weevil Fruit piercing moth Fuller's rose weevil Light brown apple moth Orange fruit borer Pink wax scale Spined citrus bug White wax scale Yellow peach moth	Australia: Codex - being considered for periodic review Codex MRL: 15 mg/Kg 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	Citrus gall wasp Citrus leafminer Fuller's rose weevil Red scale	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Codex MRL: 0.07 mg/Kg EU: Not approved Canada: In re-evaluation
COPPER	--	For the control of snails	Australia: No current concerns.
CYANTRANILIPROLE	28	Fuller's rose weevil Kelly's citrus thrips Light brown apple moth	Australia: No current concerns. Codex MRL: 0.7 mg/Kg
CYFLUMETOFEN	25A	Citrus red mite Oriental spider mite Two-spotted mite	Australia: No current concerns. Codex MRL: 0.3 mg/Kg
DELTAMETHRIN	3A	Mediterranean Fruit Fly	Australia: No current concerns. Permit PER96797 Expiry date: 30/04/2031 Codex MRL: 0.02 mg/Kg

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DIAZINON	1B	--	Australia: APVMA made a Final Decision on 2024 . After 10 September 2025, crop uses are no longer approved. Codex: All MRLs deleted EU: Not approved Canada: Cancelled
DIMETHOATE	1B	Spined Citrus Bug Citrus Leaf Miner Grasshoppers PER13859 and PER87164 for the control of fruit fly (Specified citrus)	Australia: APVMA: Chemical Review prioritised to be commenced by 2029 . Permit PER13859 Expiry date: 31/05/2030 Permit PER87164 Expiry date: 30/09/2028 EU: Not approved Canada: In re-evaluation
E-11-TETRADECENYL ACETATE	--	Light brown apple moth	Australia: No current concerns.
ETOXAZOLE	10B	Bean thrips (exotic – post-harvest) Fuller's rose weevil (post-harvest) Mealy bugs (post-harvest) Red scale (post-harvest) Light brown apple moth (post-harvest) Oriental spider mite	Australia: No current concerns. Codex MRL: 0.1 mg/Kg EU: Approved, candidate for substitution
FENBUTATIN OXIDE	12B	Oriental spider mite	Australia: APVMA nominated for reconsideration after 2029 . Codex MRL: 5 mg/Kg EU: Not approved Canada: In re-evaluation
FIPRONIL	2B	Brown citrus rust mite Citrus bud mite Citrus rust (maori) mite PER94007 for the control of Giant 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. EU: Not approved Permit PER94007 Expiry date: 30/11/2026 Permit PER89402 Expiry date: 30/04/2027
IPRODIONE	2	PER14772 for the control of Emperor brown spot (mandarins)	Australia: No current concerns. Permit PER14772 Expiry date: 31/01/2031 EU: Not approved
ISOCYCLOSERAM	30	Aphids Citrus gall wasp Citrus leafminer Pink wax scale Red scale White wax scale	Australia: No current concerns.

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KAOLIN CLAY	--	Fuller's rose weevil Kelly's citrus thrips Light brown apple moth	Australia: No current concerns
LAMBDA-CYHALOTHRIN	3A	Citrus gall wasp 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	Rutherglen bug Thrips Bronze orange bug Citrus aphid Citrus butterfly Spiny lemon bug Tree hoppers California red scale Purple Scale Soft brown scale Pink wax scale	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. Codex MRL: 7 mg/Kg Canada: In re-evaluation
MANCOZEB	UN	Aphids Bronze orange bug Citrus butterflies (larvae) Pink wax scale Purple (mussel scale) Red scale Rutherglen bug Soft brown scale Spined citrus bug Thrips Treehoppers Fruit fly (cover and bait spray)	Australia: APVMA reconsideration. Prioritised to be commenced by 2027 . EU: Not approved
METALDEHYDE	--	For the control of snails and slugs	Australia: No current concerns Canada: In re-evaluation

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METHOMYL	1A	Brown citrus rust mite Citrus bud mite Citrus rust (maori) mite Bronze orange bug Large citrus butterfly Light brown apple moth Mealy bugs Small citrus butterfly Spined citrus bug	Australia: APVMA reconsideration. Was to start 2026. APVMA to publish a new Chemical Review priority list by mid 2026 Codex MRL: 1 mg/Kg EU: Not approved Canada: In re-evaluation
METHOXYFENOZIDE	18	Light brown apple moth	Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Not approved Canada: In re-evaluation
OMETHOATE	1B	Aphids	Australia: No current concerns. EU: Not approved
ORANGE OIL	--	Whitefly Two spotted mite Rust mites Oriental spider mite Scale Mealybug Suppression: Onion thrips and Western flower thrips	Australia: No current concerns.
PARAFFIN OIL	--	Black (brown olive) scale	Australia: No current concerns.
PERMETHRIN	3A	Citrus leafminer	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.5 mg/Kg EU: Not approved
PIRIMICARB	1A	Aphids	Australia: No current concerns. Codex MRL: 3 mg/Kg EU: Approved, candidate for substitution Canada: Cancelled
PROPINEB	M3	Citrus rust mite (specific miticide effect)	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved
PUTRESCINE	--	Mediterranean Fruit Fly	Australia: No current concerns Permit PER96797 Expiry date: 30/04/2031

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PYRETHRINS	3A	Ants	Australia: No current concerns. Codex MRL: 0.05 mg/Kg
PYRIPROXYFEN	7C	Red Scale Black Scale PER87728 for the control of Red imported fire ants	Australia: No current concerns. Permit PER87728 Expiry date: 28/02/2027 Codex MRL: 0.5 mg/Kg
RESCALURE	--	California Red Scale	Australia: No current concerns.
SPINETORAM	5	Citrus leafminer	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
SPINOSAD	5	Citrus leafminer	Australia: No current concerns. Codex MRL: 0.3 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Kelly's citrus thrips	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation
SULFOXAFLOX	4C	Citricola scale	Australia: No current concerns.
SULFUR	UN	Brown citrus rust mite	Australia: No current concerns.
TEBUFENOZIDE	18	Light brown apple moth	Australia: No current concerns. Codex MRL: 2 mg/Kg
THIAMETHOXAM	4A	Kelly's citrus thrips	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation
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

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Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	Black spot Brown pot/ rot	Australia: No current concerns. Codex MRL: 15 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation
CAPTAN	M4	PER82043 for the control of Emperor brown spot (mandarins)	Australia: No current concerns.
COPPER	M1	Black spot Citrus canker Emperor brown spot Melanose Phytophthora Pink disease Scab Septoria spot Sooty blotch	Australia: No current concerns.
FLUDIOXONIL	12	Blude mould Diplodia fruit rot Green mould Stem-end rot	Australia: No current concerns. Codex MRL: 10 mg/Kg EU: Approved, candidate for substitution
FLUDIOXONIL + PROPICONAZOLE	12 + 3	Blue mould Green mould Sour rot	FLUDIOXONIL Australia: No current concerns. Codex MRL: 10 mg/Kg EU: Approved, candidate for substitution PROPICONAZOLE Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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FLUOPYRAM + TEBUCONAZOLE	7 + 3	Black spot Botrytis Brown spot (Alternaria)	FLUOPYRAM Australia: No current concerns. TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)
GUAZATINE ACETATES	M7	Sour rot Blue mould Green mould	Australia: No current concerns. EU: Not approved
IMAZALIL	3	Blue mould Green mould	Australia: No current concerns. Codex MRL: 15 mg/Kg
IMAZALIL + PYRIMETHANIL	3 + 9	Green mould	IMAZALIL Australia: No current concerns. Codex MRL: 15 mg/Kg PYRIMETHANIL Australia: No current concerns. Codex MRL: 7 mg/Kg Canada: In re-evaluation
IODINE	M	Citrus canker, fungi	Australia: No current concerns. Canada: Cancelled
IPRODIONE	2	PER14772 for the control of Emperor brown spot (mandarins)	Australia: No current concerns. EU: Not approved USA: Under Registration Review (scheduled)
MANCOZEB	M3	Black spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Brown rot / collar rot / root rot	Australia: No current concerns. Permit PER96705 Expiry date: 31/10/2027
PROPINEB	M3	Black spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved

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PYRIMETHANIL	9	Blue mould Green mould	Australia: No current concerns. Codex MRL: 7 mg/Kg Canada: In re-evaluation
SULPHUR	M2	Melanose Sooty blotch	Australia: No current concerns. Canada: In re-evaluation
THIABENDAZOLE	1	Blue mould Green mould Stem-end rot	Australia: No current concerns. Codex MRL: 7 mg/Kg
THIRAM THIABENDAZOLE	M3 + 1	PER95699 for the control of Albinism in Citrus rootstock seed for all citrus varieties	THIRAM Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for seed treatment. THIABENDAZOLE Australia: No current concerns. Codex MRL: 7 mg/Kg
ZINEB	M3	Black spot Scab	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled

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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.
DICHLORBENIL	29	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
DIQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is expected in Mid 2026. Codex MRL: 0.02 mg/Kg EU: Not approved
FLAZASULFURON	2	Australia: No current concerns.
FLUAZIFOP-P	1	Australia: No current concerns
FLUMIOXAZIN	14	Australia: No current concerns. Canada: In re-evaluation
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. Codex MRL: 0.02 mg/Kg EU: Not approved
INDAZIFLAM	29	Australia: No current concerns. EU: Not approved
NONANOIC ACID	--	Australia: No current concerns.
NORFLURAZON	12	Australia: No current concerns. EU: Not approved

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ORYZALIN	3	Australia: No current concerns. EU: Not approved
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: 0.02 mg/Kg EU: Not approved Canada: Cancelled USA: Restricted use
PENDIMETHALIN	3	Australia: No current concerns. Codex MRL: 0.03 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)
SAFLUFENACIL	14	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved
SIMAZINE	5	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved
TRIFLURALIN	3	Potatoes can be sown 2 months after pendimethalin treatment. Pendimethalin is not directly applied to potato crops

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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 to meet interstate and intrastate quarantine requirements	Australia: APVMA nominated for reconsideration after 2029. Permit PER96144 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

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Active Constituent	Use	Risks and Comments
2,4-D	Reduction of pre-harvest drop and for the control of colouring.	Australia: No current concerns. Codex MRL: 1 mg/Kg UK: Withdrawn (2030). Canada: In re-evaluation USA: Upcoming
ETHEPHON	Thinning to increase fruit size, to reduce size of heavy crop and to even out the production cycle.	Australia: No current concerns
ETHYL FORMATE	Postharvest fumigant to control Light Brown Apple Moth, Fullers Rose Weevil, Californian red scale and Bean thrips	EU: Not approved
GIBBERELIC ACID	Promote desirable harvest effects.	Australia: No current concerns Canada: In re-evaluation
PEROXYACETIC ACID HYDROGEN PEROXIDE	Control of bacterial growth in the process water for post-harvest processing	PEROXYACETIC ACID Australia: No current concerns. HYDROGEN PEROXIDE Australia: No current concerns.
PROPICONAZOLE	PER96286 for the control of Post harvest diseases: Blue mould, Green mould, Sour rot	Australia: APVMA nominated for reconsideration and spray drift assessment. Permit PER96286 Expiry date: 31/07/2027 EU: Not approved Canada: In re-evaluation USA: Upcoming

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