

Zucchini

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Zucchini 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
ABAMECTIN	6	Root-knot nematodes Two-spotted (Red spider) mite Permit PER14722 for the control of Red tomato spider mite	Australia: APVMA nominated for reconsideration and spray drift assessment. Permit PER96481 Expiry date: 31/07/2028 Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025) Permit PER14722 Expiry date: 31/05/2030
AFIDOPYROPEN	9D	Green peach Cabbage aphid Currant lettuce aphid Cotton aphid Melon aphid Corn aphid	Australia: No current concerns. EU: Not approved
ALPHA-CYPERMETHRIN	3A	Permit PER80138 for the control of Cucumber fruit fly	Australia: APVMA nominated for reconsideration after 2029. Permit PER80138 Expiry date: 31/12/2029 EU: Not approved
BACILLUS THURINGIENSIS	11A	Armyworm (Spodoptera spp.) Cotton bollworm (Helicoverpa armigera) Native budworm (Helicoverpa punctigera) Cabbage moth (Plutella xylostella) Cabbage white butterfly (Pieris rapae) Loopers (Chrysodeixis spp., Ectropis excrucaria, Thysanoplusia orichalcea) Lightbrown apple moth (Epiphyas postvittana) Vine moth (Phalaenoides glyciniae, Agarista agricola)	Australia: No current concerns.
BIFENAZATE	20D	Permit PER82341 for the control of Red tomato spider mite	Australia: No current concerns. Permit PER82341 Expiry date: 31/01/2030 Codex MRL: 0.5 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation

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BUPROFEZIN	16	Permit PER82467 for the control of Greenhouse whitefly, Sweet potato whitefly, Silverleaf whitefly (SLW), Whitefly	Australia: No current concerns. Permit PER82467 Expiry date: 31/03/2030 Codex MRL: 0.7 mg/Kg
CANOLA OIL PYRETHRINS	3A	Aphids Thrips Caterpillars (including cabbage white butterfly & cabbage moth) Whitefly Ants Flies Earwigs Leafhopper Two-spotted mite Scale Mealybug Sooty mould	CANOLA OIL Australia: No current concerns. PYRETHRINS Australia: No current concerns. Codex MRL: 0.05 mg/Kg
CARBARYL	1A	Heliothis (budworms), pumpkin beetle, 28-spotted ladybird, cucurbit stem borer, wingless grasshopper, green vegetable bug, leaf eating ladybird, cutworms, European earwig, potato moth, Rutherglen bug, armyworms	Australia: No current concerns. EU: Not approved Canada: In re-evaluation Codex - being considered for periodic review
CHLORANTRANILIPROLE	28	Cotton bollworm Native budworm Cucumber moth	Australia: No current concerns. Codex MRL: 0.3 mg/Kg 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
CLITORIA TERNATEA EXTRACT	UNE	whitefly	Australia: No current concerns.

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CLOTHIANIDIN	4A	Permit PER95266 for the control of Cucumber Fruit Fly	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit PER95266 Expiry date: 30/09/2027 Codex MRL: 0.02 mg/Kg EU: Not approved Canada: In re-evaluation
CYANTRANILIPROLE	28	Melon aphid Silverleaf whitefly Cotton bollworm Cucumber moth Native budworm Permit PER93849 for the control of Liriomyza leafminers	Australia: No current concerns. Codex MRL: 0.3 mg/Kg Permit PER93849 Expiry date: 31/12/2026
CYCLOBUTRIFLURAM	n-3	Root knot nematode	Australia: No current concerns.
CYROMAZINE	17	Permit PER81867 for the control of Leaf miner	Australia: No current concerns. Permit PER81867 Expiry date: 30/09/2026 EU: Not approved
DIMETHOATE	1B	Cucumber Fly	Australia: APVMA: Prioritised for chemical reconsideration in 2029. EU: Not approved Canada: In re-evaluation
DIMPROPYRIDAZ	36	Silver Leaf White Fly Greenhouse Whitefly Cotton/melon aphid	Australia: No current concerns. EU: Pending
EMAMECTIN	6	Heliothis Cluster caterpillar Cucumber moth	Australia: Nominated for targeted spray drift reconsideration EU: Approved, candidate for substitution
ETOXAZOLE	10B	Permit PER82460 for the control of two spotted mites and red spider mite	Australia: No current concerns. Permit PER82460 Expiry date: 31/05/2028 EU: Approved, candidate for substitution
FIPRONIL	2B	European Wasp	Australia: APVMA: Proposed Regulatory decision was expected by April 2026. APVMA is now advising the by end of 2026 at the earliest. Permit PER89402 Expiry date: 30/04/2027

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FLONICAMID	29	Green Peach Aphid Melon Aphid Silverleaf Whitefly	Australia: No current concerns. Codex MRL: 0.2 mg/Kg
FLUAZAINDOLIZINE	N-UN	Root Knot Nematode	Australia: No current concerns. EU: Pending
FLUBENDIAMIDE	28	Heliothis cucumber moth	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved
FLUENSULFONE	5	Root Knot Nematode	Australia: No current concerns.
FLUPYRADIFURONE	4D	Cotton Aphid Green Peach Aphid Greenhouse Whitefly Silverleaf Whitefly	Australia: No current concerns.
HEXYTHIAZOX	10A	Permit PER95394 for the control of Tomato spider mite, Twospotted mite, Broad mite, Tomato russet mite	Australia: No current concerns. Permit PER95394 Expiry date: 30/09/2029 Codex MRL: 0.05 mg/Kg
IMIDACLOPRID	4A	Green Peach Aphid	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment.
IRON EDTA COMPLEX	--	Snails and slugs	Australia: No current concerns
MALATHION	1B	Pumpkin beetle	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. Canada: In re-evaluation
METALDEHYDE	--	Snails and slugs	Australia: No current concerns
METHOMYL		PER82428 for the control of Helicoverpa spp. Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including Western Flower Thrip	Australia: APVMA reconsideration. Was to start 2026. APVMA to publish a new Chemical Review priority list by mid 2026. Permit PER82428 Expiry date: 31/01/2029 Codex MRL: 0.1 mg/Kg

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NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ARMIGERA	--	Corn earworm cotton bollworm tobacco budworm Native budworm	Australia: No current concerns.
ORANGE OIL		Silverleaf whitefly Two spotted mite Powdery mildew	Australia: No current concerns.
PARAFFINIC OIL	UNM	Silverleaf Whitefly Permit PER93806 for the control of Melon thrip Permit PER88171 for the control of Melon thrip	Australia: No current concerns. Permit PER93806 Expiry date: 31/07/2027 Permit PER88171 Expiry date: 31/07/2027
PETROLEUM OIL	UN	Silverleaf Whitefly PER12221 for the control of: Greenhouse whitefly Sweet potato whitefly Silverleaf whitefly B biotype Whitefly Q biotype	Australia: No current concerns. Permit PER12221 Expiry date: 30/09/2027
PIPERONYL BUTOXIDE PYRIPROXYFEN	7C	Silverleaf Whitefly	PIPERONYL BUTOXIDE Australia: No current concerns. Codex MRL: 1 mg/Kg PYRIPROXYFEN Australia: No current concerns.
PIRIMICARB	1A	Aphids	Australia: No current concerns. Codex MRL: 1 mg/Kg
PYRETHRINS	3A	Fruitfly Rutherglen bug Spiders	Australia: No current concerns. Codex MRL: 0.05 mg/Kg
PYRETHRINS PIPERONYL BUTOXIDE	3A	Permit PER92112 for the control of Ants Aphids Caterpillars Earwigs Leafhoppers Thrips Whitefly	PYRETHRINS Australia: No current concerns. Codex MRL: 0.05 mg/Kg PIPERONYL BUTOXIDE Australia: No current concerns. Codex MRL: 1 mg/Kg

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PYRIPROXYFEN	7C	Silverleaf Whitefly	Australia: No current concerns.
SPINETORAM	5	Cucumber moth Western flower thrips Permit PER94451 for the control of Leaf miners	Australia: No current concerns. Permit PER94451 Expiry date: 31/07/2027
SPINOSAD	5	Leaf miners Permit PER89870 for the control of Fall Armyworm	Australia: No current concerns. Permit PER96806 Expiry date: 30/05/2031 Codex MRL: 0.2 mg/Kg Permit PER89870 Expiry date: 31/10/2030
SPIROTETRAMAT	23	Cotton aphid Green Peach Aphid Silverleaf whitefly	Australia: No current concerns. Codex MRL: 0.2 mg/Kg
SULFOXAFLOX	4C	Green Peach Aphid Greenhouse whitefly Rutherglen bug	Australia: No current concerns. Codex MRL: 0.5 mg/Kg
TRICHLORFON	1B	Cutworm	Australia: APVMA nominated for reconsideration after 2029.

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FUNGICIDES – Disease Control

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Active Constituent	MoA Group	Pest	Risks and Comments
AUREOBASIDIUM PULLULANS	--	Botrytis / Grey mould Sclerotinia	Australia: No current concerns.
AZOXYSTROBIN	11	Downy mildew Gummy stem blight Powdery mildew	Australia: No current concerns. Permit PER93402 Expiry date: 31/05/2027 Codex MRL: 1 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation
BOSCALID	7	Powdery mildew	Australia: No current concerns. Codex MRL: 3 mg/Kg Canada: In re-evaluation
BOSCALID KRESOXIM-METHYL	7 + 11	Powdery mildew	BOSCALID Australia: No current concerns. Codex MRL: 3 mg/Kg Canada: In re-evaluation KRESOXIM-METHYL Australia: No current concerns. Codex MRL: 0.5 mg/Kg
BUPIRIMATE	8	Powdery mildew	Australia: No current concerns. UK: (2029).
CHLOROTHALONIL	M5	Alternaria leaf blight Anthracnose Downy mildew Gummy stem blight Powdery mildew Rhizoctonia ground rot Target leafspot	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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COPPER	M1	Angular leaf spot Anthracnose Bacterial spot Downy mildew Gummy stem blight Late (Irish) blight Leaf diseases/spots Powdery mildew Rust Septoria leaf spot Target spot (Early blight)	Australia: No current concerns.
CYFLUFENAMID	U6	Powdery mildew	Australia: No current concerns.
DIFENOCONAZOLE	3	PER93402 for the control of Powdery mildew	Australia: APVMA nominated for reconsideration after 2029 . Permit PER93402 Expiry date: 31/05/2027 EU: Approved, candidate for substitution Canada: In re-evaluation
DIMETHOMORPH	40	Alternaria leaf blight Anthracnose Downy mildew Gummy stem blight Septoria leaf spot	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation
DIMETHOMORPH AMETOCTRADIN	40 + 45	Downy mildew	DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation AMETOCTRADIN Australia: No current concerns Codex MRL: 3 mg/Kg UK: Withdrawn (2031).

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ETHANEDINITRILE		Damping off Fungal diseases: Fusarium Fungal diseases: Rhizoctonia Fusarium wilt Phytophthora trunk/collar rot Rhizoctonia rot Root and collar rot Sclerotium crown rot Spot blotch	Australia: No current concerns.
FLORYLPICOXAMID	21	Powdery mildew	Australia: No current concerns. EU: Pending
FLUOPICOLIDE	43	Downy mildew	Australia: No current concerns Codex MRL: 0.5 mg/Kg EU: Approved, candidate for substitution
GUAZATINE ACETATES	M7	Sour or yeasty rot	Australia: No current concerns. EU: Not approved
HYDROGEN PEROXIDE		Hairy root or Crazy root	Australia: No current concerns. Permit PER93702 Expiry date: 28/02/2027
HYDROGEN PEROXIDE PEROXYACETIC ACID	M	Powdery mildew Permit PER93702 for the control of Hairy Root	HYDROGEN PEROXIDE Australia: No current concerns. Permit PER93702 Expiry date: 28/02/2027 PEROXYACETIC ACID Australia: No current concerns.
IODINE	M	Bactericide Fungi	Australia: No current concerns. Canada: Cancelled
IPRODIONE	2	Botrytis/ Grey mould	Australia: No current concerns. EU: Not approved USA: Under Registration Review (scheduled)
KRESOXIM-METHYL	11	Powdery mildew	Australia: No current concerns. Codex MRL: 0.5 mg/Kg

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MANCOZEB	M3	Alternaria leaf blight Anthracnose Downy mildew Gummy stem blight Powdery mildew Septoria leaf spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)
MANCOZEB DIMETHOMORPH	M3 + 40	Downy mildew Anthracnose Gummy stem blight Alternaria leaf spot Septoria spot	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled) DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation
MANCOZEB METALAXYL	M3 + 4	Downy mildew Anthracnose Stem blight Alternaria leaf spot	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled) METALAXYL Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation
MANCOZEB METALAXYL-M	M3 + 4	Alternaria leaf blight Anthracnose Damping off Downy mildew Gummy stem blight Phytophthora soil fungus (Dieback)	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled) METALAXYL-M Australia: No current concerns.

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MANCOZEB SULFUR (S) AS WETTABLE SULFUR	M3	Downy mildew Anthracnose Gummy Stem blight Septoria spot	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled) SULFUR (S) AS WETTABLE SULFUR Australia: No current concerns.
METALAXYL	4	Damping off	Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation
METALAXYL-M	4	Damping off	Australia: No current concerns.
METIRAM	M3	Downy mildew Gummy stem blight	Australia: APVMA reconsideration. Prioritised to be commenced by 2027.
METRAFENONE	50	Powdery mildew	Australia: No current concerns.
OXADIXYL	4	Anthracnose Downy mildew Gummy stem blight	Australia: No current concerns.
OXATHIPIPROLIN	49	Downy mildew	Australia: No current concerns.
PENTHIOPYRAD	7	Botrytis / Grey mould Gummy stem blight Powdery mildew	Australia: No current concerns.
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Downy mildew	Australia: No current concerns.
POTASSIUM BICARBONATE	M2	Powdery mildew	Australia: No current concerns.
POTASSIUM SILICATE POTASSIUM BICARBONATE	M2	Powdery mildew	POTASSIUM SILICATE Australia: No current concerns. POTASSIUM BICARBONATE Australia: No current concerns.
PROPAMOCARB	28	Downy mildew	Australia: No current concerns.

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PROPAMOCARB HYDROCHLORIDE FLUOPICOLIDE	43	Downy mildew	<p>PROPAMOCARB HYDROCHLORIDE Australia: No current concerns.</p> <p>FLUOPICOLIDE Australia: No current concerns Codex MRL: 0.5 mg/Kg EU: Approved, candidate for substitution</p>
PROPINEB	M3	Anthracnose Downy mildew Gummy stem blight	Australia: APVMA reconsideration. Prioritised to be commenced by 2027.
PROPINEB OXADIXYL	M3 + 4	Anthracnose Downy mildew Gummy stem blight	<p>PROPINEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027.</p> <p>OXADIXYL Australia: No current concerns.</p>
PROQUINAZID	13	Powdery mildew	Australia: No current concerns.
PYDIFLUMETOFEN DIFENOCONAZOLE	7 + 3	Alternaria leaf spot Gummy stem blight Cercospora leaf spot Powdery mildew	<p>PYDIFLUMETOFEN Australia: No current concerns.</p> <p>DIFENOCONAZOLE Australia: APVMA nominated for reconsideration after 2029. Permit PER93402 Expiry date: 31/05/2027 EU: Approved, candidate for substitution Canada: In re-evaluation</p>
PYRIMETHANIL	9	Botrytis/ Grey mould	Australia: No current concerns.
PYRIOFENONE	50	Powdery mildew	Australia: No current concerns.
STREPTOMYCES LYDICUS STRAIN WYEC 108		Powdery mildew	Australia: No current concerns.
SULFUR		Anthracnose Downy mildew Rust Septoria leaf spot Target spot (Early blight)	Australia: No current concerns.
TEA TREE OIL	BM01	Powdery mildew	Australia: No current concerns.
TRIADIMEFON	3	Powdery mildew	Australia: APVMA nominated for reconsideration after 2029.

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TRIADIMENOL	3	Powdery mildew	Australia: APVMA nominated for reconsideration after 2029.
ZINEB	M3	Anthrachnose Downy mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027.

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HERBICIDES - Weed Control

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Active Constituent	MoA Group	Risks and Comments
CLOMAZONE	13	Australia: No current concerns. Canada: In re-evaluation
DIQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is expected in Mid 2026. EU: Not approved
FLUAZIFOP-P	1	Australia: No current concerns
GLYPHOSATE	9	Australia: Nominated for targeted spray drift reconsideration USA: Under Registration Review (scheduled)
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
SETHOXYDIM	1	Australia: No current concerns. EU: Not approved Canada: Phase-Out

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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 bacterial spot (Xanthomonas spp.) (suppression only). Soil insects and nematodes	Australia: No current concerns. EU: Not approved USA: Restricted use
CHLOROPICRIN + 1,3-DICHLOROPROPENE	Soil borne pathogens, nematodes and weeds	CHLOROPICRIN Australia: No current concerns. EU: Not approved USA: Restricted use 1,3-DICHLOROPROPENE Australia: No current concerns. EU: Pending Canada: Cancelled
ETHANEDINITRILE	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns.
METHAM PRESENT AS SODIUM SALT	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	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 Expiry date: 31/01/2031 EU: Not approved Canada: Remaining pre-plant soil fumigation uses were cancelled (June 2025) USA: Restricted use

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