

Beetroot

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Beetroot 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

INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	Vegetable leafminer	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)
CARBARYL	1A	Armyworm; Budworm/Helicoverpa; Cabbage white butterfly; Cutworms; Diamondback moth; Earwigs; Green vegetable bug; Leaf eating Ladybirds; Potato moth; Pumpkin beetle; Rutherglen bugs; Vegetable weevil; Wingless grasshopper	Australia: Codex - being considered for periodic review Codex MRL: 0.1 mg/Kg EU: Not approved Canada: In re-evaluation
CHLORPYRIFOS	1B	Black field cricket; Cutworms; Earwigs; False wire worm; Field crickets; Mole crickets; Spotted vegetable weevil; Vegetable weevil; Wingless grasshopper; Leafminer species; Webworms	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
CYROMAZINE	17	Leaf Miner	Australia: No current concerns. Permit PER81867 Expiry date: 30/09/2026 EU: Not approved
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	Leafminer flies; Aphids; Green vegetable bug; Jassids/Leafhoppers; Mites; Red-legged earth mite; Thrips; Wingless grasshopper	Australia: APVMA: Chemical Review prioritised to be commenced by 2029 . EU: Not approved Canada: In re-evaluation
EMAMECTIN	6	Budworm/Helicoverpa ; Cabbage white butterfly ; Cluster caterpillar ; Diamondback moth ; Loopers	Australia: Nominated for targeted spray drift reconsideration 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 EU: Not approved
FLUAZAINDOLIZINE	N-UN	Root Knot Nematode	Australia: No current concerns. EU: Pending
FLUBENDIAMIDE	28	Budworm/Helicoverpa; Cabbage white butterfly; Cluster caterpillar; Diamondback moth; Potato moth	Australia: No current concerns. EU: Not approved

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IMIDACLOPRID	4A	Aphids & Thrips	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit PER81260 Expiry date: 30/06/2027 Codex MRL: 0.5 mg/Kg EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment.
IRON EDTA COMPLEX	--	Common brown(brown) snail White snail Vine snail	Australia: No current concerns
LAMBDA-CYHALOTHRIN	3A	Onion thrips; Plague thrips; Rutherglen bug; Vegetable Loopers; Vegetable weevil.	Australia: No current concerns. Permit PER11949 Expiry date: 30/11/2029 EU: Approved, candidate for substitution
METALDEHYDE	--	For the control of snails and slugs	Australia: No current concerns Canada: In re-evaluation
METHOMYL	1A	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 EU: Not approved Canada: In re-evaluation
PIRIMICARB	1A	Green peach aphid	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Approved, candidate for substitution Canada: Cancelled
PROPARGITE	12C	Spotted Mite, Two Spotted Mite	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. EU: Not approved Canada: Cancelled
PYMETROZINE	9B	Green peach aphid; Potato aphid	Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Not approved Canada: Cancelled
PYRETHRINS	3A	Ant, Aphid, Budworms, Caterpillar, Leafhopper, Thrip,	Australia: No current concerns. Codex MRL: 0.05 mg/Kg

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SPINETORAM	5	Budworm/Helicoverpa; Lightbrown apple moth; Loopers; Potato moth. Leaf miners (Liriomyza spp.) PER94451-Expiry 31/07/2027 for Vegetable leaf miner; Pea leaf miner/Serpentine leaf miner; American serpentine leaf miner.	Australia: No current concerns. Permit PER94451 Expiry date: 31/07/2027 EU: Not approved Canada: In re-evaluation
SPINOSAD	5	Budworm/Helicoverpa; Cabbage centre grub; Cabbage white butterfly; Cluster caterpillar; Cucumber moth; Lightbrown apple moth; Loopers; Potato moth; Western flower thrips.	Australia: No current concerns. Permit PER96806 Expiry date: 30/05/2031 Canada: In re-evaluation
SPODOPTERA FRUGIPERDA NPV	--	Fall Armyworm	Australia: No current concerns Permit PER91477 Expiry date: 31/03/2027
SULFOXAFLOX	4C	Green peach aphid; Tomato/potato psyllid	Australia: No current concerns. Codex MRL: 0.03 mg/Kg

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FUNGICIDES – Disease Control

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Active Constituent	MoA Group	Pest	Risks and Comments
AMETOCTRADIN	45	Downy mildew	Australia: No current concerns UK: Withdrawn (2031).
AZOXYSTROBIN	11	Damping off / Pythium; Rhizoctonia. Permit for product containing Azoxystrobin + Metalaxyl-M	Australia: No current concerns. Permit PER90595 Expiry date: 31/01/2029 UK: Withdrawn (2029). Canada: In re-evaluation
BOSCALID	7	Sclerotinia rot	Australia: No current concerns. Codex MRL: 2 mg/Kg Canada: In re-evaluation
CHLOROTHALONIL	M5	Alternaria spp. Botrytis spp. Cercospora Leaf Spot (Cercospora beticola) Phoma Leaf Spot (Phoma betae)	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Permit PER82895 Expiry date: 31/05/2030 Codex MRL: 0.3 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Downy mildew; Rust	Australia: No current concerns.
DIFENOCONAZOLE	3	Alternaria leaf spot; Leaf spot	Australia: APVMA nominated for reconsideration after 2029. EU: Approved, candidate for substitution Canada: In re-evaluation
DIMETHOMORPH	40	Downy mildew.	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
FLUDIOXONIL	12	Rhizoctonia.	Australia: No current concerns. EU: Approved, candidate for substitution
IPRODIONE	2	Alternaria leaf spot; Sclerotinia Rot; Grey mould	Australia: No current concerns. Permit PER81589 Expiry date: 31/03/2031 EU: Not approved USA: Under Registration Review (scheduled)
MANCOZEB	M3	Alternaria leaf spot; Cercospora leaf spot; Downy mildew; Leaf spot; Powdery mildew; Rust. Permit for a product that contains Mancozeb + Metalaxyl to control Downy mildew Alternaria leaf spots.	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)

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METALAXYL	4	Damping off / Pythium; Downy mildew	Australia: No current concerns. Permit PER90595 Expiry date: 31/01/2029 EU: Approved, candidate for substitution Canada: In re-evaluation
PENTHIOPYRAD	7	Alternaria leaf spot; Powdery mildew	Australia: No current concerns. EU: Not approved
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Damping off and downy mildew	Australia: No current concerns. Permit PER14184 Expiry date: 31/03/2030
PROPICONAZOLE	3	Leaf Spot (Cercospora spp.)	Australia: APVMA nominated for reconsideration and spray drift assessment. Permit PER14479 Expiry date: 31/08/2029 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PYDIFLUMETOFEN	7	Early blight (target spot, leaf spot) (Alternaria spp.) Powdery mildew (Erysiphe spp., Oidium spp.) Cercospora leaf spot (Cercospora spp.)	Australia: No current concerns. EU: Pending Canada: In re-evaluation
TEBUCONAZOLE	3	Sclerotinia Rot (Sclerotinia species); PER14479-Expiry date 31/08/2029 for Leaf Spot (Cercospora spp.)	Australia: APVMA: Removed from nomination list - maintain watching brief EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)
TOLCLOFOS-METHYL	14	Rhizoctonia	Australia: No current concerns.
TRIFLOXYSTROBIN	11	Alternaria leaf spot	Australia: No current concerns. Permit PER14891 Expiry date: 30/06/2029 Canada: In re-evaluation

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HERBICIDES – Weed Control

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Active Constituent	MoA Group	Risks and Comments
CHLORIDAZON	5	Australia: No current concerns. Permit PER92389 Expiry date: 30/09/2026 Permit PER94967 Expiry date: 31/07/2027
CLETHODIM	1	Australia: No current concerns.
DIQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is expected in Mid 2026. EU: Not approved
ETHOFUMESATE	15	Australia: No current concerns. Canada: In re-evaluation
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: 0.05 mg/Kg EU: Not approved Canada: Cancelled USA: Restricted use
PHENMEDIPHAM	5	Australia: No current concerns.
PROPACHLOR	15	Australia: No current concerns. EU: Not approved
QUIZALOFOP-P-ETHYL	1	Australia: No current concerns.
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 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	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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PLANT GROWTH REGULATORS AND OTHERS

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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.

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