

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 **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
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R4	No current risk/concerns

INSECTICIDES/MITICIDES/NEMATICIDES - 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. 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: No current concerns. Codex MRL: 0.1 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
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 USA: Agricultural uses cancelled. Very few registrations as Restricted Use Pesticide.
CYROMAZINE	17	Leaf Miner	Australia: No current concerns. Permit PER81867 Expiry date: 30/09/2026 EU: Not approved
DIAZINON	1B		Australia: 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 USA: Under Registration Review (scheduled)

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DIMETHOATE	1B	Leafminer flies; Aphids; Green vegetable bug; Jassids/Leafhoppers; Mites; Red- legged earth mite; Thrips; Wingless grasshopper	Australia:APVMA reconsideration. Prioritised to be commenced by 2029. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
EMAMECTIN	6	Diamondback Moth (Cabbage Moth)(Plutella xylostella), Cabbage White Butterfly (Pieris rapae) Heliothis (Helicoverpa spp.) Cluster caterpillar (Spodoptera litura) Loopers (Chrysodeixis spp.) Cabbage Centre Grub (Hellula Hydralis)	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Approved, candidate for substitution. UK: Withdrawn (2024).
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 UK: Withdrawn (2024).
IMIDACLOPRID	4A	Aphids & Thrips	Australia: APVMA: Currently under review. Proposed regulatory decisions expected between December2025 to October2026. Permit PER81260 Expiry date: 30/06/2027 EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
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.

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PIRIMICARB	1A	Green peach aphid	Australia: No current concerns. 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 USA: Under Registration Review (scheduled)
PYMETROZINE	9В	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.
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 UK: Withdrawn (2024). 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. PER94331-Expiry date 30/04/2026 for Leaf miners (Liriomyza spp.)	Australia: No current concerns. Permit PER94331 Expiry date: 30/04/2026 Canada: In re-evaluation

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SPODOPTERA FRUGIPERDA NPV	-1	PER90820 for the control of Fall Armyworm	Australia: No Current Concerns. Permit PER90820 Expiry date: 31/03/2027
SULFOXAFLOR	4C	Green peach aphid; Tomato/potato psyllid	Australia: No current concerns.

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
AMETOCTRADIN	45	Downy mildew	Australia: No current concerns.
AZOXYSTROBIN	11	Permit PER90595 for control of Damping off / Pythium; Rhizoctonia.	Australia: No current concerns. Permit PER90595 Expiry date: 31/01/2029 Canada: In re-evaluation
BOSCALID	7	Sclerotinia rot	Australia: No current concerns. 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. 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

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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: 30/06/2026 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 UK: Withdrawn (2024). USA: Under Registration Review (scheduled)
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.
PHOSPHOROUS ACID AND SALTS	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

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Active Constituent	MoA Group	Pest	Risks and Comments
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

HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CHLORIDAZON	5	Australia: No current concerns.
CLETHODIM	1	Australia: No current concerns.
DIQUAT	22	Australia: APAPVMA: <u>Currently under review.</u> Publication of the final regulatory decision is now expected in Mid 2026 . EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
ETHOFUMESATE	15	Australia: No current concerns. Canada: In re-evaluation
GLYPHOSATE	9	Australia: Nominated for targeted spray drift reconsideration USA: Under Registration Review (scheduled)

RO	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

PARAQUAT	22	Australia: APVMA: Currently under review. Publication of the final regulatory decision is now expected in Mid 2026. Candidate chemical recommended to be listed to Rotterdam Convention. 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

FUMIGANTS – Mixed Function

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		

Active Constituent	Use	Risks and Comments
CHLOROPICRIN + 1,3-	Control of soil borne diseases, plant parasitic	CHLOROPICRIN
DICHLOROPROPENE	Nematodes, Symphylans and Wireworms	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 (Xanthomonas spp.)	Australia: No current concerns.
	(suppression only).	USA: Under Registration Review (scheduled)
	Soil insects and nematodes	
ETHANEDINITRILE	Soil borne pathogens, nematodes and weeds	Australia: No current concerns.
METHAM PRESENT AS SODIUM	Germinating weeds and soil-borne fungus	Australia: No current concerns.
SALT	diseases	

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R4	No current risk/concerns

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