

Green Bean 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 green bean crops 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/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
<i>Bacillus thuringiensis</i>	11A	Susceptible larvae including: Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)
BIFENTHRIN	3A	Redlegged earth mite Silverleaf (Poinsettia) whitefly	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled
CHLORANTRANILIPROLE	28	Helicoverpa; PER89259 for the control of Fall Armyworm	Australia: No current concerns. Permit PER89259 Expiry date: 31/01/2028 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 USA: Agricultural uses cancelled. Very few registrations as Restricted Use Pesticide.
CYROMAZINE	17	PER81867 for the control of Leaf miner	Australia: No current concerns. Permit PER81867 Expiry date: 30/09/2026 EU: Not approved

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DELTAMETHRIN	3A	Green vegetable bug Helicoverpa Looper caterpillars Turnip moth	Australia: No current concerns. Codex MRL: 0.2 mg/Kg
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 USA: Under Registration Review (scheduled)
DIMETHOATE	1B	Aphids Bean fly Bugs Cowpea aphid Green vegetable bug Jassids Leafhoppers Lucerne flea Mites Redlegged earth mite Spider mites (Red spider) 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	Cluster caterpillar Helicoverpa Looper caterpillars	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Approved, candidate for substitution. UK: Withdrawn (2024).
ESFENVALERATE	3A	Helicoverpa Plague thrips	Australia: No current concerns. EU: Approved, candidate for substitution.

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EUCALYPTOL D-LIMONENE PHENYLACETALDEHYDE ANISYL ALCOHOL BUTYL SALICYLATE ALPHA-PINENE	--	Moths of Helicoverpa	Australia: No Current Concerns.
FLUPYRADIFURONE	4D	Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns.
HELCOVERPA ARMIGERA NPV	31	Helicoverpa	Australia: No Current Concerns.
IMIDACLOPRID	4A	PER85103 for the control of Silver Leaf Whitefly	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December 2025 to October 2026. Permit PER85103 Expiry date: 30/09/2025 EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
LAMBDA-CYHALOTHRIN	3A	Turnip moth	Australia: No current concerns. EU: Approved, candidate for substitution.
MALATHION	1B	28-spotted potato ladybird Aphids Australian plague locust Cabbage white butterfly Green vegetable bug Jassids Leafhoppers Lucerne flea Redlegged earth mite Rutherglen bug Spur-throated locust Thrips	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. UK: Withdrawn (2025). Canada: In re-evaluation USA: Under Registration Review (scheduled)

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METHOMYL	1A	Beanfly Bean thrips Bean pod borer Heliothis Loopers PER82428 for the control of: Helicoverpa Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including WFT	Australia: APVMA reconsideration. Prioritised to be commenced by 2026. Permit PER82428 Expiry date: 31/01/2029 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
OMETHOATE	1B	Blue oat mite Lucerne flea Pasture mite Redlegged earth mite	Australia: No current concerns. EU: Not approved
ORANGE OIL	--	Whitefly (<i>Bemisia tabaci</i>) Two spotted mite (<i>Tetranychus urticae</i>) Suppression: Onion thrips (<i>Thrips tabaci</i>) & Western flower thrips (<i>Frankliniella occidentalis</i>) Tomato thrips (<i>Frankliniella schultzei</i>) Green peach aphid (<i>Myzus persicae</i>) & Melon aphid (<i>Aphis gossypii</i>) Serpentine leafminer (<i>Liriomyza huidobrensis</i>),	Australia: No current concerns.
PERMETHRIN	3A	Helicoverpa Tobacco budworm	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved
PETROLEUM OIL	UN	Aphids Mites Thrips Leafhopper	Australia: No current concerns. EU: Not approved

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PYRETHRINS	3A	Fruitfly, Rutherglen bug Spiders PER86551 for the control of bean podborer	Australia: No current concerns. Permit PER86551 Expiry date: 28/02/2029
PYRIPROXYFEN	7C	PER84890 for the control of Silverleaf whitefly	Australia: No current concerns. Permit PER84890 Expiry date: 31/07/2027
SPINETORAM	5	Liriomyza Leafminers (<i>Liriomyza</i> spp.)	Australia: No current concerns. Permit per87878 Expiry date: 31/12/2027 EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	PER94331 for the control of Dipteran leaf miners PER89870 for the control of Fall Armyworm	Australia: No current concerns. Permit PER94331 Expiry date: 30/04/2026 Permit PER89870 Expiry date: 31/07/2025 Codex MRL: 0.3 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	PER88640 for the control of <i>Liriomyza</i> leafminers	Australia: No current concerns. Permit PER88640 Expiry date: 28/02/2026 Codex MRL: 1.5 mg/Kg EU: Not approved Canada: In re-evaluation
SPODOPTERA FRUGIPERDA NPV	--	PER91477 and PER90820 for the control of Fall Armyworm	Australia: No Current Concerns. Permit PER91477 Expiry date: 31/03/2027 Permit PER90820 Expiry date: 31/03/2027

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ZINC PHOSPHIDE	24A	PER93053 for the control of Rats & mice	Australia: No current concerns. Permit PER93053 Expiry date: 30/11/2025 UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	Sclerotinia rot	Australia: No current concerns. Codex MRL: 3 mg/Kg Canada: In re-evaluation
<i>Bacillus amyloliquefaciens</i> STRAIN QST 713	BM02	PER87630 for the control of Bacterial spot / Blight	Australia: No current concerns. Permit PER87630 Expiry date: 31/03/2027
BITERTANOL	3	Rust	Australia: No current concerns. EU: Not approved
BOSCALID	7	Sclerotinia rot	Australia: No current concerns. Codex MRL: 3 mg/Kg Canada: In re-evaluation
COPPER	M1	Bacterial brown spot Blight Chocolate spot (Grey mould) Common bacterial blight Halo blight Rust	Australia: No current concerns.

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FLUDIOXONIL CYPRODINIL	12 + 9	Grey mould Sclerotinia rot	FLUDIOXONIL Australia: No current concerns. EU: Approved, candidate for substitution. CYPRODINIL Australia: No current concerns. EU: Approved, candidate for substitution. Canada: In re-evaluation
FLUOPYRAM TRIFLOXYSTROBIN	7 + 11	Powdery mildew	FLUOPYRAM Australia: No current concerns. TRIFLOXYSTROBIN Australia: No current concerns. Canada: In re-evaluation
IPRODIONE	2	PER84955 for the control of Sclerotinia, Black rot & Grey Mould	Australia: No current concerns. Permit PER84955 Expiry date: 30/11/2027 EU: Not approved USA: Under Registration Review (scheduled)
MANCOZEB	M3	Angular leaf spot Anthracnose Bacterial brown spot Black spot Chocolate spot (Grey mould) Common bacterial blight Grey mould Halo blight Leaf & pod spot Leaf blight Leaf diseases/spots Rust PER14593 for the control of downy mildew, anthracnose and alternaria.	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER14593 Expiry date: 31/05/2030 EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)

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MANDESTROBIN	11	White mould	Australia: No current concerns.
METIRAM	M3	Anthraco nose Rust	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for foliar applications in potato crops.
OXYCARBOXIN	7	Rust	Australia: No current concerns. EU: Not approved Canada: Cancelled
QUINTOZENE	14	Stem & root rot (Rhizoctonia)	Australia: No current concerns. EU: Not approved
SULFUR	M2	Angular leaf spot Anthraco nose Chocolate spot (Grey mould) Leaf blight Rust	Australia: No current concerns.
TEBUCONAZOLE	3	Rust	Australia: APVMA: Removed from nomination list - maintain watching brief EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
THIRAM	M3	Damping-off	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for seed treatment.
ZINEB	M3	Anthraco nose Rust	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled

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HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
ACIFLUORFEN	14	Australia: No current concerns. EU: Not approved
BENTAZONE	6	Australia: No current concerns.
CLETHODIM	1	Australia: No current concerns. Permit PER91492 Expiry date: 28/02/2030
CLOMAZONE	13	Australia: No current concerns. Canada: In re-evaluation
DIFLUFENICAN	12	Australia: No current concerns. EU: Approved, candidate for substitution.
DIQUAT	22	Australia: APAPVMA: Currently under review . Publication of the final regulatory decision is now expected in Mid 2026. EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
DIMETHENAMID-P	15	Australia: No current concerns. Canada: In re-evaluation
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: Cancelled
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
QUIZALOFOP-P-ETHYL	1	Australia: No current concerns.

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Active Constituent	MoA Group	Risks and Comments
SETHOXYDIM	1	Australia: No current concerns. EU: Not approved Canada: Phase-Out
S-METOLACHLOR	15	Australia: No current concerns. EU: Not approved
TRIFLURALIN	3	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

FUMIGANTS – Mixed Function

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.

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