

Green Beans

Agrichemical Regulatory Risk Assessment

June 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Beans in Australia, as well as assisting with any current initiatives aimed at identifying and addressing pest management deficiencies.

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R1	Short-term risk: Critical concern over retaining access < 1 year
R2	Medium-term risk: Maintaining access of significant concern <2-5 years
R3	Long-term risk: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk / concerns

Blue text = new APVMA approved uses

INSECTICIDES/MITICIDES - Insect and other Pests Control

Active Constituent	MoA Group	Pest	Risks and Comments
1,3-DICHLOROPROPENE + CHLOROPICRIN	8A + 8B	Nematodes and soil borne diseases	1,3-DICHLOROPRENE Australia: No current concerns. EU: Pending: Canada: No current review CHLOROPICRIN Australia: No current concerns. EU: Not approved Canada: No current review
<i>Bacillus thuringiensis</i>	11A	Susceptible larvae including: Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers	Australia: No current concerns. USA: Review upcoming
BIFENTHRIN	3A	Redlegged earth mite Silverleaf (Poinsettia) whitefly	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review
CHLORANTRANILIPROLE	28	Helicoverpa	Australia: No current concerns. Codex MRL: 0.8 mg/Kg EU: Approved, UK: Approved Canada: In review

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CHLORPYRIFOS	1B	African black beetle Black field cricket Black field earwig Field crickets, Mole crickets Migratory locust Spotted vegetable weevil Vegetable weevil Wingless grasshopper Spur-throated locust	Australia: The APVMA issued a Final Decision in September 2024. All green bean uses were cancelled. Products with previously approved labels must not be possessed or used after September 30, 2025. Codex: All MRLs deleted EU: Not approved Canada: All uses cancelled 2023 USA: Upcoming review
CYROMAZINE	17	Permit PER81867 for the control of Leaf miner	Australia: Reviewed in 2014. No current concerns. Permit PER81867 Expiry date: 30/09/2026 EU: Not approved Canada: No current review
DELTAMETHRIN	3A	Green vegetable bug Helicoverpa Looper caterpillars Turnip moth	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Approved UK: Approved Canada: No current review
DIAZINON	1B	Bean blossom thrips Bean flower caterpillar Bean fly	Australia: APVMA made a Final Decision on 10 September 2024 . Agricultural uses were not supported during the review. Approved use on all vegetables ceases 10 September 2025. Codex: All MRLs deleted EU: Not approved Canada: No current review USA: Upcoming
DIMETHOATE	1B	Aphids Bean fly Bugs Cowpea aphid Green vegetable bug Jassids Leafhoppers Lucerne flea	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. Codex MRL: No MRLs EU: Not approved Canada: In review USA: Review upcoming

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Active Constituent	MoA Group	Pest	Risks and Comments
		Mites Redlegged earth mite Spider mites (Red spider) Thrips Wingless grasshopper	
EMAMECTIN	6	Cluster caterpillar Helicoverpa Looper caterpillars	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration EU: Approved, candidate for substitution. UK: Withdrawn. Expiry date: 30/11/2024 Canada: No current review
ESFENVALERATE	3A	Helicoverpa Plague thrips	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved
EUCALYPTOL D-LIMONENE PHENYLACETALDEHYDE	--	Moths of: Helicoverpa spp.	
FENITROTHION	1B	Spur-throated locust	Australia: APVMA: Under review. Crop uses proposed to be cancelled. APVMA Final decision expected in late 2025. EU: Not approved Canada: No current review
FLUPYRADIFURONE	4D	Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 1.5 mg/Kg EU: Approved UK: Approved Canada: No current review
HELICOVERPA ARMIGERA NPV	31	Helicoverpa	Australia: No current concerns. EU: Approved

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IMIDACLOPRID	4A	Permit PER85103 for the control of Silver Leaf Whitefly	<p>Australia: APVMA: : APVMA: Currently under review. Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026.</p> <p>Permit PER85103 Expiry date: 30/09/2025</p> <p>Codex MRL: 2 mg/Kg</p> <p>EU: Not approved</p> <p>Canada: Field uses cancelled or amended</p> <p>USA: Re-registration with risk mitigation measures. Review upcoming</p>
LAMBDA-CYHALOTHRIN	3A	Turnip moth	<p>Australia: No current concerns.</p> <p>Codex MRL:</p> <p>EU: Approved, candidate for substitution.</p> <p>UK: Approved</p> <p>Canada: No current review</p>
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	<p>Australia: The final regulatory decision was published in an APVMA Special Gazette on 2 May 2024. Labels containing malathion as an active constituent have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026.</p> <p>Codex MRL: 1 mg/Kg</p> <p>EU: Approved</p> <p>UK: Withdrawn. Expiry date: 30/04/2025</p> <p>Canada: In review</p> <p>USA: Review upcoming</p>
METALDEHYDE		Brown field slug Pointed (Conical) snail Reticulated (Grey field) slug Slugs Small brown snail Snails White Italian (Sand dune) snail	<p>Australia: No current concerns.</p> <p>EU: Approved</p> <p>UK: Approved</p> <p>Canada: In review</p>

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METHOMYL	1A	Beanfly Bean thrips Bean pod borer Heliothis Loopers Permit PER82428 for the control of: Helicoverpa spp. Cucumber moth Cluster caterpillar Webworm Rutherglen bug Thrips including WFT	Australia: APVMA reconsideration. Prioritised to be commenced by 2026. Permit PER82428 Expiry date: 31/01/2029 Codex MRL: 1 mg/Kg EU: Not approved Canada: In review USA: Review upcoming
OMETHOATE	1B	Blue oat mite Lucerne flea Pasture mite Redlegged earth mite	Australia: Reviewed in 2016. No current concerns. Codex MRL: No MRLs. EU: Not approved
PERMETHRIN	3A	Helicoverpa Tobacco budworm	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review
PETROLEUM OIL	UN	Aphids Mites Thrips Leafhopper	Australia: No current concerns.
PYRETHRINS	3A	Fruitfly, Rutherglen bug, Spiders Permit PER86551 for the control of Bean podborer	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review Permit PER86551 Expiry date: 28/02/2029
PYRIPROXYFEN	7C	Permit PER84890 for the control of Silverleaf Whitefly (<i>Bemisia tabaci</i> species)	Australia: No current concerns. Permit PER84890 Expiry date: 31/07/2027 EU: Approved UK: Approved Canada: No current review

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SPINETORAM	5	Liriomyza Leafminers (<i>Liriomyza</i> spp.)	Australia: No current concerns. Permit per87878 Expiry date: 31/12/2027 Codex MRL: 0.05 mg/Kg EU: Not approved UK: Withdrawn. Expiry date: 30/09/2024 Canada: In review
SPINOSAD	5	Helicoverpa Permit PER89870 for the control of Fall Armyworm. Permit PER94331 for the control of Dipteran leaf miners.	Australia: Reviewed in 2014. No current concerns. Permit PER89870 Expiry date: 31/07/2025 Permit PER94331 Expiry date: 30/04/2026 Codex MRL: 0.3 mg/Kg EU: Approved UK: Approved Canada: In review
SPIROTETRAMAT	23	Liriomyza leafminers	Australia: No current concerns. Permit PER88640 Expiry date: 28/02/2026 Codex MRL: 1.5 mg/Kg EU: Not approved UK: Approved Canada: In review
SPODOPTERA FRUGIPERDA NPV	--	Permits PER90820 and PER91477 for the control of Fall Armyworm	Australia: No current concerns. Permit PER90820 Expiry date: 31/03/2027 Permit PER91477 Expiry date: 31/03/2027
Trichlorfon	1B	Cutworm	APVMA: nominated for review Codex: No MRLs EU/UK: No authorisations USA: No MRLs

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FUNGICIDES – Disease Control

Active constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	Sclerotinia rot	Australia: No current concerns. Codex MRL: 3 mg/Kg EU: Approved UK: Approved Canada: In review
<i>Bacillus amyloliquefaciens</i> strain QST 713	BM02	Bacterial spot / Blight	Australia: No current concerns. Permit per87630 Expiry date: 31/03/2027 EU: Approved
BITERTANOL	3	Rust	Australia: No current concerns. EU: Not approved
BOSCALID	7	Sclerotinia rot	Australia: No current concerns. Codex MRL: 3 mg/Kg EU: Approved UK: Approved Canada: In review
COPPER	M1	Bacterial brown spot Blight Chocolate spot (Grey mould) Common bacterial blight Halo blight Rust	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: No current review

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Active constituent	MoA Group	Pest	Risks and Comments
FLUDIOXONIL CYPRODIL	12 + 9	Grey mould Sclerotinia rot	<p>FLUDIOXONIL</p> <p>Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: No current review</p> <p>CYPRODIL</p> <p>Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: In review</p>
FLUOPYRAM TRIFLOXYSTROBIN	7 + 11	Powdery mildew	<p>FLUOPYRAM</p> <p>Australia: No current concerns. Codex MRL: 1 mg/Kg EU: Approved UK: Approved Canada: No current review</p> <p>TRIFLOXYSTROBIN</p> <p>Australia: No current concerns. EU: Approved UK: Approved Canada: In review</p>
IPRODIONE	2	Permit PER84955 for the control of Sclerotinia, Black rot & Grey Mould	<p>Australia: No current concerns. Permit PER84955 Expiry date: 30/11/2027 Codex MRL: 1.5 mg/Kg EU: Not approved. Significant toxicity concerns Canada: Most of the food crop uses deleted USA: Review upcoming</p>

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Active constituent	MoA Group	Pest	Risks and Comments
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 Permit PER14593 for the control of Downy Mildew, Anthracnose (<i>Colletotrichum</i> spp) and Alternaria.	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER14593 Expiry date: 31/05/2030 Codex MRL: To be reviewed EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024 Canada: Most of uses cancelled USA: Review upcoming
MANDESTROBIN	11	White mould	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
METIRAM	M3	Anthracnose Rust	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Codex MRL: To be reviewed. EU: Not approved UK: Approved Canada: Foliar uses other than potato were cancelled
OXYCARBOXIN	7	Rust	Australia: No current concerns. EU: Not approved Canada: No current review
QUINTOZENE	14	Stem & root rot (Rhizoctonia)	Australia: No current concerns. Codex MRL: Periodic re-evaluation. EU: Not approved Canada: No current review

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Active constituent	MoA Group	Pest	Risks and Comments
SULFUR	M2	Angular leaf spot Anthracnose Chocolate spot (Grey mould) Leaf blight Rust	Australia: No current concerns. EU: Approved
TEBUCONAZOLE	3	Rust	Australia: APVMA: Removed from nomination list - maintain watching brief EU: Approved, candidate for substitution. UK: Approved Canada: Phased-out USA: Review upcoming
THIRAM	M3	Damping-off	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Codex MRL: To be reviewed. EU: Not approved Canada: Cancelled all foliar uses
ZINEB	M3	Anthracnose Rust	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: No current review

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. Codex MRL: 0.01 mg/Kg EU: Approved UK: Approved

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Active constituent	MoA Group	Risks and Comments
CLETHODIM	1	Australia: No current concerns. Permit PER91492 Expiry date: 28/02/2030 Codex MRL: 0.5 mg/Kg EU: Approved, UK: Approved Canada: No current review
CLOMAZONE	13	Australia: No current concerns. EU: Approved, UK: Approved Canada: In review
DIFLUFENICAN	12	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: No current review
DIMETHENAMID-P	15	Australia: No current concerns. EU: Approved UK: Approved Canada: In review
DIQUAT	22	<u>APVMA proposed decisions</u> published July 2024. Only uses up to 283gai/ha to be kept. Publication of the final regulatory decision is expected in <u>December 2025</u> . Codex: No MRLs. EU: Not approved (withdrawn in 2018). UK: Not approved. USA: Registered (under review).
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration. Codex MRL: 6 mg/Kg EU: Approved Canada: No current review
GLUFOSINATE – AMMONIUM	10	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration EU: Not approved Canada: No current review

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Active constituent	MoA Group	Risks and Comments
GLYPHOSATE	9	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration EU: Approved UK: Approved Canada: No current review USA: Review upcoming
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: No current review
PARAQUAT	22	APVMA proposed decisions July 2024. Only uses up to 231gai/ha to be kept. Publication of the final regulatory decision is expected in December 2025 . Codex: No MRLs Canada: Not approved. EU and UK: Not approved (2007). USA: Restricted use (under review).
QUIZALOFOP-P-ETHYL	1	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
SETHOXYDIM	1	Australia: No current concerns. EU: Not approved Canada: Phased out
S-METOLACHLOR	15	Australia: No current concerns. EU: Not approved UK: Approved
TRIFLURALIN	3	Australia: No current concerns. EU: Not approved Canada: No current review USA: Review upcoming

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