

Green Bean

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

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| 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 |
|---|-----------|--|--|
| 1,3-DICHLOROPROPENE + CHLOROPICRIN | 8A + 8B | Nematodes | <p>1,3-DICHLOROPROPENE Australia: No current concerns. EU: Pending Canada: Cancelled</p> <p>CHLOROPICRIN Australia: No current concerns. EU: Not approved</p> |
| Bacillus thuringiensis | 11A | Susceptible larvae including: Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers | Australia: No current concerns. |
| BIFENTHRIN | 3A | Redlegged earth mite Silverleaf (Poinsettia) whitefly | <p>Australia: APVMA nominated for reconsideration after 2029.</p> <p>EU: Not approved Canada: Cancelled</p> |
| CHLORANTRANILIPROLE | 28 | Helicoverpa; PER89259 for the control of Fall Armyworm | <p>Australia: No current concerns. Permit PER89259 Expiry date: 31/01/2028 Canada: In re-evaluation</p> |
| 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 | <p>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.</p> <p>EU: Not approved Canada: Cancelled</p> |
| CYROMAZINE | 17 | PER81867 for the control of Leaf miner | <p>Australia: No current concerns. Permit PER81867 Expiry date: 30/09/2026 EU: Not approved</p> |

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| DELTA METHRIN | 3A | Green vegetable bug Helicoverpa Looper caterpillars Turnip moth | Australia: No current concerns. Codex MRL: 0.2 mg/Kg |
| DIAZINON | 1B | Bean blossom thrips Bean flower caterpillar Bean fly | 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 | 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: Chemical Review prioritised to be commenced by 2029 . EU: Not approved Canada: In re-evaluation |
| EMAMECTIN | 6 | Cluster caterpillar Helicoverpa Looper caterpillars | Australia: Nominated for targeted spray drift reconsideration EU: Approved, candidate for substitution |
| 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 spp. | <p>EUCALYPTOL Australia: No current concerns.</p> <p>D-LIMONENE Australia: No current concerns.</p> <p>PHENYLACETALDEHYDE Australia: No current concerns.</p> <p>ANISYL ALCOHOL Australia: No current concerns.</p> <p>BUTYL SALICYLATE Australia: No current concerns.</p> <p>ALPHA-PINENE Australia: No current concerns.</p> |
| FLUPYRADIFURONE | 4D | Green peach aphid Silverleaf (Poinsettia) whitefly | Australia: No current concerns. |
| HELICOVERPA ARMIGERA NPV | 31 | Helicoverpa | Australia: No current concerns |
| IMIDACLOPRID | 4A | PER85103 for the control of Silver Leaf Whitefly | <p>Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit PER85103 Expiry date: 30/06/2027</p> <p>EU: Not approved</p> <p>Canada: Very few uses allowed in greenhouses and seed treatment.</p> |
| IRON EDTA COMPLEX | -- | Common brown(brown) snail White snail Vine snail | Australia: No current concerns |
| LAMBDA-CYHALOTHRIN | 3A | Turnip moth | Australia: No current concerns. |
| 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 have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026.</p> <p>Canada: In re-evaluation</p> |

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| METALDEHYDE | -- | Brown field slug Pointed (Conical) snail Reticulated (Grey field) slug Slugs Small brown snail Snails White Italian (Sand dune) snail For the control of snails and slugs | Australia: No current concerns Canada: In re-evaluation |
| METHOMYL | 1A | Beanfly Bean thrips Bean pod borer Heliiothis Loopers ; 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: 1 mg/Kg EU: Not approved Canada: In re-evaluation |
| OMETHOATE | 1B | Blue oat mite Lucerne flea Pasture mite Redlegged earth mite | Australia: No current concerns. EU: Not approved |
| PERMETHRIN | 3A | Helicoverpa Tobacco budworm | Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 1 mg/Kg EU: Not approved |
| PETROLEUM OIL | UN | Aphids Mites Thrips Leafhopper | Australia: No current concerns. EU: Not approved |
| 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 (Bemisia tabaci species) | Australia: No current concerns. Permit PER84890 Expiry date: 31/07/2027 |
| SPINETORAM | 5 | Liriomyza Leafminers (Liriomyza spp.) | Australia: No current concerns. Permit per87878 Expiry date: 31/12/2027 EU: Not approved Canada: In re-evaluation |
| SPINOSAD | 5 | PER96806 for the control of Dipteran leaf miners | Australia: No current concerns. Permit PER96806 Expiry date: 30/05/2031 Codex MRL: 0.3 mg/Kg Canada: In re-evaluation |

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| SPODOPTERA FRUGIPERDA NPV | -- | PER91477 for the control of Fall Armyworm | Australia: No current concerns Permit PER91477 Expiry date: 31/03/2027 |
| ZINC PHOSPHIDE | 24A | PER93053 for the control of Rats & mice | Australia: No current concerns. Permit PER93053 Expiry date: 31/03/2028 Canada: In re-evaluation |

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FUNGICIDES – Disease Control

Blue text = new APVMA approved uses

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|---|-----------|---|---|
| AZOXYSTROBIN | 11 | Sclerotinia rot | Australia: No current concerns. Codex MRL: 3 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation |
| Bacillus amyloliquefaciens 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. |
| 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 |

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| IPIRODIONE | 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 (Colletotrichum spp) & Alternaria. | Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER14593 Expiry date: 31/05/2030 EU: Not approved USA: Under Registration Review (scheduled) |
| MANDESTROBIN | 11 | White mould | Australia: No current concerns. |
| METIRAM | M3 | Anthracnose 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. Codex MRL: 0.1 mg/Kg EU: Not approved |
| SULFUR | UN | Angular leaf spot Anthracnose 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. |

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| ZINEB | M3 | Anthracnose Rust | Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled |
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HERBICIDES – Weed Control

Blue text = new APVMA approved uses

| Active Constituent | MoA Group | Risks and Comments |
|--------------------|-----------|---|
| ACIFLUORFEN | 14 | EU: Not approved |
| BENTAZONE | 6 | Australia: No current concerns. UK: Withdrawn (2031). |
| 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 |
| DIMETHENAMID-P | 15 | Australia: No current concerns. Canada: In re-evaluation |
| METOLACHLOR | 15 | Australia: No current concerns. EU: Not approved Canada: Cancelled |
| QUIZALOFOP-P-ETHYL | 1 | Australia: No current concerns. |
| S-METOLACHLOR | 15 | Australia: No current concerns. EU: Not approved |
| SETHOXYDIM | 1 | Australia: No current concerns. EU: Not approved Canada: Phase-Out |
| TRIFLURALIN | 3 | Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled) |

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| R4 | No current risk/concerns |

FUMIGANTS

Blue text = new APVMA approved uses

| 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. |

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| R3 | Long-term: Potential issues associated with use – Monitoring required < 5 years |
| R4 | No current risk/concerns |

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