

Brassica Vegetables 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 brassica vegetable 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
R2	Medium-term: Maintaining access of significant concern <2-5 years
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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
ABAMECTIN	6	PER96481 for the control of leaf miner	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)
ACEPHATE	1B	Helicoverpa Cabbage moth Budworms - Native Cabbage aphid Cabbage white butterfly Diamondback moth	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
AFIDOPYROPEN	9D	Cabbage aphid Cotton aphid Currant lettuce aphid Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns. EU: Not approved
ALPHA-CYPERMETHRIN	3A	Cabbageg moth <i>Helicoverpa</i> Cluster caterpillar Cabbage white butterfly	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved
AMORPHOUS SILICA	--	Diamond back moth (<i>Plutella xylostella</i>), <i>Heliothis</i> (<i>Helicoverpa</i> spp.)	Australia: No current concerns.

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<i>Bacillus thuringiensis</i>	11A	Armyworm Budworms - Native Corn earworm/Cotton bollworm Cabbage centre grub Cabbage cluster caterpillar Cabbage white butterfly Diamondback moth Cabbage moth Loopers Lightbrown apple moth Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)
BETA-CYPERMETHRIN	3A	Diamond back moth <i>Helicoverpa</i> spp.	Australia: No current concerns. EU: Not approved
BIFENTHRIN	3A	Silverleaf whitefly Permit PER82039 for the control of Symphylids	Australia: APVMA nominated for reconsideration after 2029. Permit PER82039 Expiry date: 31/07/2028 Codex MRL: 0.4 mg/Kg EU: Not approved Canada: Cancelled
BROFLANILIDE	30	Diamondback moth	Australia: No current concerns.
CHLORANTRANILIPROLE	28	Budworms - Native Corn earworm/Cotton bollworm Cabbage centre grub Cabbage cluster caterpillar Cabbage white butterfly Diamondback moth Soybean looper	Australia: No current concerns. Codex MRL: 2 mg/Kg Canada: In re-evaluation

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CHLORANTRANILIPROLE THIAMETHOXAM	28 + 4A	Cabbage Aphid Cabbage Centre Grub Cabbage White Butterfly Cluster Caterpillar Diamondback Moth Green Peach Aphid Green Vegetable Bug Greenhouse Whitefly Leaf miners Native Budworm Onion Thrips	CHLORANTRANILIPROLE Australia: No current concerns. Codex MRL: 2 mg/Kg Canada: In re-evaluation THIAMETHOXAM Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December 2025 to October 2026. Codex MRL: 5 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CHLORPYRIFOS	1B	Blue Oat Mite Red-legged Earth Mite	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.
CYCLANILIPROLE	28	Diamondback moth Cluster caterpillar Cabbage Cluster Caterpillar Cabbage white Cabbage Centre Grub	Australia: No current concerns. EU: Not approved
CYPERMETHRIN	3A	Helicoverpa Cabbage white butterfly Cabbage moth Cluster caterpillar	Australia: No current concerns. EU: Approved, candidate for substitution.

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CYROMAZINE	17	Permit PER81867 for the control of Leaf miner in Broccoli	Australia: No current concerns. Permit PER81867 Expiry date: 30/09/2026 Codex MRL: 1 mg/Kg EU: Not approved
DELTAMETHRIN	3A	Cabbage white butterfly Cabbage moth Cabbage centre grub	Australia: No current concerns.
DIAZINON	1B	--	Australia: APVMA made a Final Decision on 2024 . After 10 September 2025, crop uses are no longer approved. Codex: All MRLs deleted Permit PER82551 Expiry date: 30/11/2025 EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
DIMPROPYRIDAZ	36	Green peach aphid Cabbage aphid	Australia: No current concerns. EU: Pending
EMAMECTIN	6	Diamondback Moth (Cabbage Moth)(<i>Plutella xylostella</i>), Cabbage White Butterfly (<i>Pieris rapae</i>) Heliothis (<i>Helicoverpa</i> spp.) Cluster caterpillar (<i>Spodoptera litura</i>) Loopers (<i>Chrysodeixis</i> spp.) Cabbage Centre Grub (<i>Hellula Hydralis</i>)	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Approved, candidate for substitution. UK: Withdrawn (2024).
ESFENVALERATE	3A	Cabbage moth Cabbage white butterfly <i>Helicoverpa punctigera</i> <i>Helicoverpa armigera</i> Cabbage Centre grub	Australia: No current concerns. EU: Approved, candidate for substitution.

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FIPRONIL	2B	Diamondback moth Cabbage white butterfly Cabbage cluster caterpillar	Australia: APVMA: Currently under review . Proposed Regulatory decision expected by April 2026. EU: Not approved USA: Under Registration Review (scheduled)
FLUBENDIAMIDE	28	Diamondback moth Cabbage white butterfly Cluster caterpillar Heliothis	Australia: No current concerns. Codex MRL: 4 mg/Kg EU: Not approved UK: Withdrawn (2024).
GAMMA-CYHALOTHRIN	3A	Diamondback Moth Cabbage White Butterfly Cabbage Cluster Caterpillar	Australia: No current concerns. EU: Not approved UK: Withdrawn (2025).
HELICOVERPA ARMIGERA NPV	31	<i>Helicoverpa</i>	Australia: No current concerns.
IMIDACLOPRID	4A	Green peach aphid Onion thrips Silverleaf (Poinsettia) whitefly Turnip aphid	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December2025 to October2026. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
INDOXACARB	22A	Budworms - Native Corn earworm/Cotton bollworm Cabbage centre grub Cabbage cluster caterpillar Cabbage white butterfly Diamondback moth	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved UK: Withdrawn (2024).
ISOCYCLOSERAM	30	Diamondback Moth Cabbage White Butterfly Suppression of: Heliothis	Australia: No current concerns. Codex MRL: 0.7 mg/Kg

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LAMBDA-CYHALOTHRIN	3A	Australian plague locust Cabbage cluster caterpillar Cabbage white butterfly Diamondback moth Small plague grasshopper, Spur-throated locust	Australia: No current concerns. EU: Approved, candidate for substitution.
MALATHION	1B	Aphids Cabbage moth Cabbage white butterfly Green vegetable bug Jassids Leaf hoppers Rutherglen bug 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)
METHOMYL	1A	Australian cabbage looper Budworms Cabbage centre grub Cabbage cluster caterpillar Cabbage white butterfly Green vegetable bug Loopers	Australia: APVMA reconsideration. Prioritised to be commenced by 2026 . EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
ORANGE OIL		Silverleaf whitefly Suppression: Onion thrips Western flower thrips Green peach aphid Cabbage aphid Serpentine leafminer	Australia: No current concerns.
PERMETHRIN	3A	Cabbage moth Cabbage white butterfly Cluster caterpillar	Australia: APVMA nominated for reconsideration after 2029 . Codex MRL: 2 mg/Kg EU: Not approved

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PETROLEUM OIL	UN	Permit PER12221 for the control of: Aphid Green mirid Green vegetable bug Grey cluster bug Leafhoppers Mites Rutherglen bug Thrips	Australia: No current concerns. Permit PER12221 Expiry date: 30/09/2027 EU: Not approved
PHORATE	1B	Aphids Jassids Thrips Two spotted mite	Australia: APVMA reconsideration. Prioritised to be commenced by 2026. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PIRIMICARB	1A	Cabbage aphid Cotton aphid	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Approved, candidate for substitution. Canada: Cancelled
PROTHIOFOS	1B	Cabbage centre grub Cabbage moth Cabbage white butterfly Cluster caterpillar Helicoverpa spp.	Australia: No current concerns. EU: Not approved
PYMETROZINE	9B	Cabbage Aphid Green Peach Aphid	Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Not approved Canada: Cancelled
PYRETHRINS	3A	Diamondback moth	Australia: No current concerns.
PYRIPROXYFEN	7C	Permit PER84261 for the control of Silverleaf whitefly	Australia: No current concerns. Permit PER84261 Expiry date: 31/05/2030

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SPINETORAM	5	Diamondback moth Cabbage white butterfly Cabbage cluster caterpillar Cabbage centre grub Loopers Permit PER94451 for the control of leaf miners	Australia: No current concerns. Permit PER94451 Expiry date: 31/07/2027 Codex MRL: 0.3 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	Diamondback moth Cabbage white butterfly Cabbage cluster caterpillar Cabbage centre grub Loopers, <i>Heliothis</i> Western flower thrip Permit PER89870 for the control of Fall Armyworm	Australia: No current concerns. Permit PER94451 Expiry date: 31/10/2030 Codex MRL: 2 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Cabbage aphid Cotton aphid Diamondback moth Silverleaf (Poinsettia) whitefly	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
SPODOPTERA FRUGIPERDA NPV	--	PER90820 for the control of Fall Armyworm	Australia: No Current Concerns. Permit PER90820 Expiry date: 31/03/2027
THIODICARB	1A	Cabbage Cluster Caterpillar Cabbage White Butterfly	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Not approved USA: Under Registration Review (scheduled)
ZETA-CYPERMETHRIN	3A	Helicoverpa spp. Cabbage white butterfly Cabbage moth cluster caterpillar	Australia: No current concerns. EU: Not approved

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FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
AMISULBROM	21	Clubroot Damping Off	Australia: No current concerns. EU: Not approved
AMISULBROM COPPER	21 + M1	White blister Downy mildew	AMISULBROM Australia: No current concerns. EU: Not approved COPPER Australia: No current concerns. Codex MRL: 2 mg/Kg Canada: In re-evaluation
AZOXYSTROBIN	11	Alternaria leaf spots Sclerotinia rot (white rot) White blister	Australia: No current concerns.
AZOXYSTROBIN OXATHIPIPROLIN	11 + 49	Alternaria leaf spots Downy mildew Sclerotinia rot (white rot) White blister	AZOXYSTROBIN Australia: No current concerns. OXATHIPIPROLIN Australia: No current concerns. Codex MRL: 4 mg/Kg EU: Not approved UK: Withdrawn (2024).
<i>Bacillus amyloliquefaciens</i> STRAIN QST 713	BM02	Permit PER87630 for the control of Bacterial spot / blight	Australia: No current concerns. Permit PER87630 Expiry date: 31/03/2027 EU: Not approved

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BOSCALID	7	Sclerotinia rot	Australia: No current concerns. Codex MRL: 0.4 mg/Kg EU: Not approved Canada: Cancelled
CHLOROTHALONIL	M5	Ring spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2028.
COPPER	M1	Alternaria leaf spots Black rot Downy mildew Papery leaf spot Ring spot White blister	Australia: No current concerns. Codex MRL: 2 mg/Kg Canada: In re-evaluation
CYAZOFAMID	21	Downy mildew White blister	Australia: No current concerns.
FLUAZINAM	29	Club root	Australia: No current concerns. EU: Not approved Canada: Cancelled USA: Agricultural uses cancelled. Very few registrations as Restricted Use Pesticide.
FLUDIOXONIL	12	Rhizoctonia (Seed treatment: Broccoli)	Australia: No current concerns. EU: Not approved
HYDROGEN PEROXIDE PEROXYACETIC ACID	M	Downy mildew White blister	HYDROGEN PEROXIDE Australia: No current concerns. EU: Not approved PEROXYACETIC ACID Australia: No current concerns.

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Active Constituent	MoA Group	Pest	Risks and Comments
IPRODIONE	2	Permit PER14051 for the control of Rhizoctonia as seed treatment in Broccoli Permit PER 80910 for the control of Grey Mould in Brussels Sprouts	Australia: No current concerns. Permit PER14051 Expiry date: 31/01/2028 Permit PER80910 Expiry date: 31/05/2030
MANCOZEB	M3	Alternaria leaf spots, Downy mildew Papery leaf spot, Ring spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
MANCOZEB + METALAXYL	M3 + 4	Permit PER14045 for the control of White blister and Downy mildew in Broccoli, Brussels sprouts and Cauliflower	Permit PER14045 Expiry date: 31/03/2027 MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled) METALAXYL Australia: No current concerns. Permit PER14352 Expiry date: 30/11/2028 EU: Approved, candidate for substitution. UK: Withdrawn (2024).
METALAXYL	4	PER14352 for the control of Damping-off in Broccoli (seed treatment)	Australia: No current concerns. Permit PER14352 Expiry date: 30/11/2028 EU: Approved, candidate for substitution. UK: Withdrawn (2024).
METIRAM	M3	Downy mildew Ring spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)

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OXATHIPIPROLIN	49	Downy mildew	Australia: No current concerns. Codex MRL: 4 mg/Kg EU: Not approved UK: Withdrawn (2024).
PENCONAZOLE	3	Ring Spot	Australia: No current concerns. EU: Not approved UK: Withdrawn (2025).
PENTHIOPYRAD	7	Grey mould Powdery mildew Sclerotinia rot (white rot)	Australia: No current concerns.
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	PER11951 for the control of Downy mildew IN Broccoli Brussels Sprouts Cauliflower	Australia: No current concerns. Permit PER11951 Expiry date: 28/02/2030 Codex MRL: 0.5 mg/Kg EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
PROPAMOCARB FLUOPICOLIDE	28 + 43	White blister Downy mildew	PROPAMOCARB Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved UK: Withdrawn (2024). FLUOPICOLIDE Australia: No current concerns EU: Approved, candidate for substitution.
QUINTOZONE	14	Club Rot (<i>Plasmodiphora</i>) Wire Stem & Black Rot	Australia: No current concerns. EU: Approved, candidate for substitution.

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TRIADIMENOL	3	Ring spot	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CHLORTHAL DIMETHYL	3	Australia: APVMA cancelled all products containing chlorthal dimethyl in October 2024. The use of chlorthaldimethyl as an agricultural chemical product is now illegal. EU: Not approved Canada: Cancelled USA: US EPA cancelled all products (Oct. 2024)
CLETHODIM	1	Australia: No current concerns. Permit PER82459 Expiry date: 30/09/2026
CLOPYRALID	4	Australia: APVMA Nominated for targeted spray drift reconsideration Permit PER87773 (Transplanted only) Expiry date: 31/08/2027
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: APVMA Nominated for targeted spray drift reconsideration Canada: Cancelled
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: Cancelled
NAPROPAMIDE	0	Australia: No current concerns. Permit PER87773 (Transplanted only) Expiry date: 31/08/2027 Canada: In re-evaluation

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OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)
PENDIMETHALIN	3	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
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
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)

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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.

PLANT REGULATORS AND OTHERS – Plant regulators, post-harvest treatments, rodenticides and others.

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Post-harvest treatment for improved quality after shipping, storage or handling.	Australia: No current concerns

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