

Brassica Vegetables (Head and Flower) 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 **Brassica Vegetables** 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/NEMATOCIDES - Insect and other Pests Control

Active Constituent	MoA Group	Pest	Risks and Comments
ACEPHATE	1B	Helicoverpa spp. Cabbage moth Budworms - Native Cabbage aphid Cabbage white butterfly Diamondback moth	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: In review USA: Review upcoming
AFIDOPYROPEN	9D	Cabbage aphid Cotton aphid Currant lettuce aphid Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns. EU: Not approved UK: No registrations USA: Approved
ALPHA-CYPERMETHRIN	3A	Cabbage moth Helicoverpa Cluster caterpillar Cabbage white butterfly	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review
AMORPHOUS SILICA	--	Diamond back moth Helicoverpa spp.	Australia: No current concerns.
<i>Bacillus thuringiensis</i>	11A	Budworms - Native Corn earworm/Cotton bollworm Cabbage centre grub Cabbage cluster caterpillar Cabbage white butterfly Diamondback moth	Australia: No current concerns.

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BETA-CYPERMETHRIN	3A	Diamond back moth Helicoverpa spp.	Australia: No current concerns. Codex MRL: 1 mg/Kg (Crop group value) 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 (Crop group value) EU: Not approved
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 (Crop group value) EU: Approved UK: Approved Canada: In review
CHLORANTRANILIPROLE THIAMETHOXAM	4A + 28	Diamondback Moth Cabbage White Butterfly Corn Earworm Native Budworm Cabbage Centre Grub Cabbage Cluster Caterpillar Cluster Caterpillar Soybean Looper Cabbage Aphid Green Peach Aphid Silverleaf Whitefly Greenhouse Whitefly Green Vegetable Bug Western Flower Thrips Onion Thrips	CHLORANTRANILIPROLE Australia: No current concerns. Codex MRL: 2 mg/Kg (Crop group value) EU: Approved UK: Approved Canada: In review THIAMETHOXAM Australia: APVMA: Currently under review. Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. Codex MRL: 5 mg/Kg (Crop group value) EU: Not approved Canada: In review USA: Review upcoming

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Active Constituent	MoA Group	Pest	Risks and Comments
CHLORPYRIFOS	1B	African black beetle Black Field crickets/Field Crickets Blue oat mite Budworms - Native Corn earworm/Cotton bollworm Cabbage aphid Cabbage cluster caterpillar Cabbage white butterfly Cutworms Diamondback moth False wireworm Mole crickets Redlegged earth mite Wingless grasshopper	Australia: The APVMA issued a final decision on 30 September 2024. Many uses in brassicas were cancelled. Products with previously approved labels must not be possessed or used after September 30, 2025. The final decision was published in the APVMA Official Gazette on October 3, 2024 . Codex: All Codex MRLs deleted EU: Not approved Canada: All uses cancelled 2023 USA: Upcoming review See below for approved uses.
CHLORPYRIFOS	1B	Redlegged earth mite, blue oat mite	Australia: The final review decision published in the APVMA Official Gazette on October 3, 2024 , supported these uses with application rate and timing restrictions Codex: All Codex MRLs deleted EU: Not approved Canada: All uses cancelled 2023 USA: Upcoming review
CYCLANILIPROLE	28	Diamondback moth Cluster caterpillar Cabbage Cluster Caterpillar Cabbage white Cabbage Centre Grub	Australia: No current concerns. EU: Not approved
CYPERMETHRIN	3A	Helicoverpa spp. Cabbage white butterfly Cabbage moth Cluster caterpillar	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved
CYROMAZINE	17	Permit PER81867 for the control of Leaf miner in Broccoli	Australia: Reviewed in 2014. No current concerns. Permit PER81867 Expiry date: 30/09/2026 EU: Not approved

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DELTAMETHRIN	3A	Cabbage white butterfly Cabbage moth Cabbage centre grub	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
DIAZINON	1B	Permit PER82551 for the control of Onion Maggot in Cauliflower	Australia: APVMA made a Final Decision on 10 September 2024 . Agricultural uses were not supported during the review. Approved label use on all vegetables ceases 10 September 2025. Permit PER82551 Expiry date: 30/11/2025 (Consider APVMA Final Decision) Codex: All MRLs deleted EU: Not approved Canada: No current review USA: Review upcoming
DIMPROPYRIDAZ	36	Green peach aphid Cabbage aphid	Australia: No current concerns. EU: Pending
EMAMECTIN	6	Diamondback Moth Cabbage White Butterfly Permit PER87563 for the control of Liriomyza leaf miners	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration Permit PER87563 Expiry date: 31/03/2029 EU: Approved, candidate for substitution. UK: Withdrawn. Expiry date: 30/11/2024
ESFENVALERATE	3A	Cabbage moth Cabbage white butterfly Helicoverpa spp. Cabbage Centre grub	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved
FIPRONIL	2B	Diamondback moth Cabbage white butterfly Cabbage cluster caterpillar	Australia: APVMA: Currently under review. Proposed Regulatory decision expected by late 2025. EU: Not approved USA: Review upcoming

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FLUBENDIAMIDE	28	Diamondback moth Cabbage white butterfly Cluster caterpillar	Australia: No current concerns. Codex MRL: 4 mg/Kg (Crop group value) EU: Not approved UK: Withdrawn. Expiry date: 30/11/2024 Canada: No current review USA: No registrations
GAMMA-CYHALOTHRIN	3A	Diamondback Moth Cabbage White Butterfly Cabbage Cluster Caterpillar	Australia: No current concerns. EU: Not approved UK: Withdrawn. Expiry date: 31/03/2025
HELICOVERPA ARMIGERA NPV	31	Helicoverpa spp	Australia: No current concerns. EU: Approved
IMIDACLOPRID	4A	Green peach aphid Onion thrips Silverleaf (Poinsettia) whitefly Turnip aphid	Australia: APVMA: Currently under review. Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. EU: Not approved Canada: Field uses cancelled or amended USA: Re-registration with risk mitigation measures. Review upcoming
INDOXACARB	22A	Budworms - Native Corn earworm/Cotton bollworm Cabbage centre grub Cabbage cluster caterpillar Cabbage white butterfly Diamondback moth	Australia: No current concerns. EU: Not approved UK: Withdrawn. Expiry date: 31/08/2024 Canada: No registrations.
ISOCYCLOSERAM	30	Diamondback Moth Cabbage White Butterfly Suppression of: Helicoverpa spp.	Australia: No current concerns. Canada: No current review

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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. UK: Approved Canada: No current review
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. EU: Approved UK: Withdrawn. Expiry date: 30/04/2025 Canada: In review USA: Review upcoming
METHOMYL	1A	Australian cabbage looper Budworms - Native Corn earworm/Cotton bollworm 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 review USA: Review upcoming Codex: No MRLs
ORANGE OIL	--	Silverleaf whitefly Suppression off: Onion thrips Western flower thrips Green peach aphid Cabbage aphid Serpentine leafminer	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review

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PERMETHRIN	3A	Cabbage moth Cabbage white butterfly Cluster caterpillar	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review
PETROLEUM OIL	UN	Permit PER12221 for the control of: Aphids 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 review USA: Review upcoming
PIRIMICARB	1A	Cabbage aphid Cotton aphid	Australia: No current concerns. Codex MRL: 0.5 mg/Kg (Crop group value) EU: Approved, candidate for substitution. UK: Approved Canada: No current review USA: No registrations
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: No current review

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PYRETHRINS	3A	Diamondback moth	Australia: No current concerns. EU: Approved UK: Approved
PYRIPROXYFEN	7C	Permit PER84261 for the control of Silverleaf whitefly	Australia: No current concerns. Permit PER84261 Expiry date: 31/05/2030 EU: Approved UK: Approved
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 (Crop group value) EU: Not approved UK: Withdrawn. Expiry date: 30/09/2024 Canada: In review
SPINOSAD	5	Diamondback moth Cabbage white butterfly Cabbage cluster caterpillar Cabbage centre grub Loopers Heliothis Western flower thrip Permit PER89870 for the control of Fall Armyworm	Australia: Reviewed in 2014. No current concerns. Permit PER89870 Expiry date: 31/07/2025 Codex MRL: 2 mg/Kg (Crop group value) EU: Approved UK: Approved Canada: In review
SPIROTETRAMAT	23	Cabbage aphid Cotton aphid Diamondback moth Silverleaf (Poinsettia) whitefly	Australia: No current concerns. EU: Not approved UK: Approved Canada: In review

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Active Constituent	MoA Group	Pest	Risks and Comments
SULFOXAFLOX	4C	Aphids Cabbage aphid Cotton aphid Greenhouse whitefly Turnip aphid Rutherglen bug	Australia: No current concerns. EU: Approved UK: Approved
THIODICARB	1A	Cabbage Cluster Caterpillar Cabbage White Butterfly	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration EU: Not approved Canada: No current review USA: Review upcoming
ZETA-CYPERMETHRIN	3A	Helicoverpa spp. Cabbage white butterfly Cabbage moth Cluster caterpillar	Australia: No current concerns. EU: Not approved

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
AMISULBROM	21	Clubroot Damping Off	Australia: No current concerns. EU: Approved UK: Approved
AMISULBROM COPPER	21 + M1	White blister Downy mildew	AMISULBROM Australia: No current concerns. EU: Approved UK: Approved COPPER Australia: No current concerns. EU: Approved, candidate for substitution.

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Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	Alternaria leaf spots Sclerotinia rot (white rot) White blister	Australia: No current concerns. Codex MRL: 5 mg/Kg (Crop group value) EU: Approved UK: Approved Canada: In review
AZOXYSTROBIN OXATHIPIPROLIN	11 + 49	Alternaria leaf spots Downy mildew Sclerotinia rot (white rot) White blister	AZOXYSTROBIN Australia: No current concerns. Codex MRL: 5 mg/Kg (Crop group value) EU: Approved UK: Approved Canada: In review OXATHIPIPROLIN Australia: No current concerns. EU: Approved UK: Approved
<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: Approved
BOSCALID	7	Sclerotinia rot	Australia: No current concerns. Codex MRL: 5 mg/Kg (Crop group value) EU: Approved UK: Approved Canada: In review
CHLOROTHALONIL	M5	Ring spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. EU: Not approved Canada: In review USA: Review upcoming Codex MRL: Brussels sprouts 6 mg/kg, Flowerhead brassicas (Broccoli: Broccoli, Chinese and cauliflower): 5 mg/kg (Australia MRL 7mg/kg)

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Active Constituent	MoA Group	Pest	Risks and Comments
COPPER	M1	Alternaria leaf spots Black rot Downy mildew Papery leaf spot Ring spot White blister	Australia: No current concerns. EU: Approved, candidate for substitution.
CYAZOFAMID	21	Downy mildew White blister	Australia: No current concerns. Codex MRL: 1.5 mg/Kg (Crop group value) EU: Approved UK: Approved Canada: In review
FLUAZINAM	29	Club root	Australia: No current concerns. EU: Approved UK: Approved Canada: In review
FLUDIOXONIL	12	Rhizoctonia (Seed treatment: Broccoli)	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved
HYDROGEN PEROXIDE PEROXYACETIC ACID	M	Downy mildew White blister	Australia: No current concerns. EU: Approved
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 EU: Not approved Canada: Most of the food crop uses deleted USA: Review upcoming

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Active Constituent	MoA Group	Pest	Risks and Comments
MANCOZEB	M3	Alternaria leaf spots Downy mildew Papery leaf spot Ring spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024 Canada: Most of uses cancelled USA: Review upcoming
MANCOZEB METALAXYL	M3 + 4	Permit PER14045 for the control of White blister and Downy mildew in Broccoli, Brussels sprouts and Cauliflower.	<p>MANCOZEB</p> <p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024 Canada: Most of uses cancelled USA: Review upcoming</p> <p>METALAXYL</p> <p>Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: In review</p>
METALAXYL	4	Damping Off	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: In review
METALAXYL-M	4	Damping Off (Pre-transplant treatment) Permit PER14352 for the control of Damping Off as seed treatment in Broccoli	Australia: No current concerns. Permit PER14352 Expiry date: 30/11/2028 EU: Approved UK: Approved
METIRAM	M3	Downy mildew Ring spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Approved Canada: Foliar uses other than potato were cancelled

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Active Constituent	MoA Group	Pest	Risks and Comments
OXATHIPIPROLIN	49	Downy mildew	Australia: No current concerns. EU: Approved UK: Approved
PENCONAZOLE	3	Ring Spot	Australia: No current concerns. EU: Approved UK: Approved
PENTHIOPYRAD	7	Grey mould Powdery mildew Sclerotinia rot (white rot)	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Downy mildew IN Broccoli Brussels Sprouts Cauliflower	Australia: No current concerns. Permit PER11951 Expiry date: 28/02/2030
PROPAMOCARB FLUOPICOLIDE	28 + 43	White blister Downy mildew	PROPAMOCARB Australia: No current concerns. EU: Approved UK: Approved FLUOPICOLIDE Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved
QUINTOZENE	14	Club Rot Wire Stem Black Rot	Australia: No current concerns. EU: Not approved
TRIADIMENOL	3	Ring spot	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review

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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 chlorthal dimethyl as an agricultural chemical product is now illegal. EU: Not approved
CLETHODIM	1	Australia: No current concerns. Permit PER82459 Expiry date: 30/09/2026 EU: Approved UK: Approved
DIQUAT	22	Australia: APVMA: Currently under review. APVMA proposed decisions July 2024 Only uses up to 283gai/ha to be kept. Includes Broccoli, head cabbages, cauliflower and Chinese cabbage (type Pe-tsai). Publication of the final regulatory decision is expected in December 2025 EU: Not approved (withdrawn in 2018). UK: Not approved.
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration EU: Approved
METOLACHLOR	15	Australia: No current concerns. EU: Not approved
NAPROPAMIDE (Transplanted crop only)	0	Australia: No current concerns. Permit PER87773 Expiry date: 31/08/2027 EU: Approved UK: Approved Canada: In review
OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Withdrawn. Expiry date: 31/12/2024 Canada: In review USA: Review upcoming

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Active Constituent	MoA Group	Risks and Comments
GLYPHOSATE	9	Australia: APVMA nominated for reconsideration for targeted spray drift reconsideration EU: Approved UK: Approved Canada: No current review USA: Review upcoming
PARAQUAT	22	Australia: APVMA: Currently under review. 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 . EU: Not approved (withdrawn in 2018). UK: Not approved.
PENDIMETHALIN	3	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: In review USA: Review upcoming
PROPACHLOR	15	Australia: No current concerns. EU: Not approved
QUIZALOFOP-P-ETHYL	1	Australia: No current concerns. EU: Approved UK: Approved
SETHOXYDIM	1	Australia: No current concerns. EU: Not approved Canada: Phase-Out
S-METOLACHLOR	15	Australia: No current concerns. EU: Not approved UK: Approved
TRIFLURALIN	3	Australia: No current concerns. EU: Not approved USA: Review upcoming

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PLANT GROWTH REGULATORS – 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. EU: Approved UK: Approved

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