

Brassica leafy vegetables

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Brassica leafy vegetables 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/NEMATICIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	Western flower thrips, 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)
AFIDOPYROPEN	9D	Cabbage aphid; Cotton aphid; Currant lettuce aphid; Green peach aphid; Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Not approved
ALPHA-CYPERMETHRIN	3A	Permit for use in control of Heliothis, white cabbage butterfly, cluster caterpillar, cabbage moth	Australia: APVMA nominated for reconsideration after 2029. Permit PER88808 Expiry date: 31/07/2026 EU: Not approved
BIFENTHRIN	3A	PER13700 for the control of Budworm Two spotted mite	Australia: APVMA nominated for reconsideration after 2029. Permit PER13700 Expiry date: 30/09/2027 EU: Not approved Canada: Cancelled
CHLORANTRANILIPROLE	28	Diamondback Moth, Cabbage White Butterfly, Corn Earworm, Native Budworm, cabbage Centre Grub, Cluster Caterpillar, Cluster Caterpillar, Soybean Looper, Cabbage Aphid, Green Peach Aphid, Silverleaf Whitefly, Greenhouse Whitefly, Green Vegetable Bug, Western Flower Thrips (Frankliniella occidentalis), Onion Thrips. Leaf miners. Permit for the control of Liriomyza species, including: Vegetable Leafminer (Liriomyza sativae) Pea Leaf Miner or Serpentine Leafminer (Liriomyza huidobrensis) American Serpentine, Leafminer (Liriomyza trifolii). Registrations available in mix with Thiamethoxam.	Australia: No current concerns. Permit PER89259 Expiry date: 31/01/2028 Codex MRL: 20 mg/Kg Canada: In re-evaluation

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CHLORANTRANILIPROLE THIAMETHOXAM	28 + 4A	Liriomyza species, including: Vegetable Leafminer (Liriomyza sativae) Pea Leaf Miner or Serpentine Leafminer (Liriomyza huidobrensis) American Serpentine Leafminer (Liriomyza trifolii)	<p>CHLORANTRANILIPROLE Australia: No current concerns. Permit PER89259 Expiry date: 31/01/2028 Codex MRL: 20 mg/Kg Canada: In re-evaluation</p> <p>THIAMETHOXAM Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Codex MRL: 3 mg/Kg EU: Not approved Canada: In re-evaluation</p>
DIMPROPYRIDAZ	36	Cabbage aphid; Green peach aphid	Australia: No current concerns. EU: Pending
EMAMECTIN	6	Diamondback Moth (<i>Plutella xylostella</i>) Heliothis (<i>Helicoverpa</i> spp.) Cabbage White Butterfly (<i>Pieris rapae</i>) Vegetable Looper (<i>Chrysodeixis</i> spp.)	Australia: Nominated for targeted spray drift reconsideration Permit PER14907 Expiry date: 31/08/2029 EU: Approved, candidate for substitution
FIPRONIL	2B	European Wasp	Australia: APVMA: Proposed Regulatory decision was expected by April 2026. APVMA is now advising the by end of 2026 at the earliest. Permit PER89402 Expiry date: 30/04/2027 Codex MRL: 0.01 mg/Kg EU: Not approved
FLUBENDIAMIDE	28	Cabbage white butterfly; Cluster caterpillar; Diamondback (Cabbage) moth; Helicoverpa; Soybean looper	Australia: No current concerns. EU: Not approved
IMIDACLOPRID	4A	PER14584 for the control of Aphids, Whitefly and Thrips	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit PER14584 Expiry date: 31/10/2028 EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment.
IRON EDTA COMPLEX	--	Common brown(brown) snail White snail Vine snail	Australia: No current concerns
ISOCYCLOSERAM	30	Diamondback moth; Cabbage white butterfly; Heliothis spp. (Suppression)	Australia: No current concerns.
METALDEHYDE	--	For the control of snails and slugs	Australia: No current concerns Canada: In re-evaluation

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NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ARMIGERA	--	Helicoverpa armigera (Corn earworm, cotton bollworm, tobacco budworm) Helicoverpa punctigera (Native budworm)	Australia: No current concerns.
NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ZEA	--	Helicoverpa	Australia: No current concerns.
PIRIMICARB	1A	Cabbage aphid Green peach aphid	Australia: No current concerns. EU: Approved, candidate for substitution Canada: Cancelled
PYMETROZINE	9B	Cotton aphid; Potato aphid	Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Not approved Canada: Cancelled
PYRETHRINS	3A	Insects (including beneficial predators) that may be present just prior to harvest such as: Fruitfly, Rutherglen bug, Spiders	Australia: No current concerns.
SPINETORAM	5	Diamondback moth, Cabbage white butterfly, Cabbage cluster caterpillar, Cabbage centre grub, Loopers Permit PER94451 for the control of Leaf miners (Liriomyza spp.) Including: Vegetable leaf miner (Liriomyza sativae) Pea leaf miner/Serpentine leaf miner (Liriomyza huidobrensis) American serpentine leaf miner (Liriomyza trifolii)	Australia: No current concerns. Permit PER94451 Expiry date: 31/07/2027 EU: Not approved Canada: In re-evaluation

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SPINOSAD	5	Diamondback moth Cabbage white butterfly Cabbage cluster caterpillar Cabbage centre grub Loopers Heliothis Western flower thrip Permit PER96806 for the control of Fall Armyworm PER96806 for the control of Leaf miners	Australia: No current concerns. Permit PER96806 Expiry date: 30/05/2031 Codex MRL: 10 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Green peach aphid (Myzus persicae), Grey cabbage aphid (Brevicoryne brassicae), Silverleaf whitefly (Bemisia tabaci Biotype B)	Australia: No current concerns. Codex MRL: 7 mg/Kg 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
SULFOXAFLOX	4C	Aphids (including cabbage aphid and green peach aphid)	Australia: No current concerns. Codex MRL: 6 mg/Kg
THIAMETHOXAM	4A	Diamondback Moth, Cabbage White Butterfly, Corn Earworm, Native Budworm, cabbage Centre Grub, Cluster Caterpillar, Cluster Caterpillar, Soybean Looper, Cabbage Aphid, Green Peach Aphid, Silverleaf Whitefly, Greenhouse Whitefly, Green Vegetable Bug, Western Flower Thrips (Frankliniella occidentalis), Onion Thrips. Leaf miners. Permit for the control of Liriomyza species, including: Vegetable Leafminer (Liriomyza sativae) Pea Leaf Miner or Serpentine Leafminer (Liriomyza huidobrensis) American Serpentine, Leafminer (Liriomyza trifolii). Registrations available in mix with Thiamethoxam.	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Codex MRL: 3 mg/Kg EU: Not approved Canada: In re-evaluation

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TRICHLORFON	1B	Cabbage White Butterfly, Cabbage Moth, Green Vegetable Bug, Rutherglen Bug	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled
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FUNGICIDES – Disease Control

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Active Constituent	MoA Group	Pest	Risks and Comments
AMETOCTRADIN	45	Downy mildew	Australia: No current concerns Codex MRL: 50 mg/Kg UK: Withdrawn (2031).
AZOXYSTROBIN	11	Alternaria leaf spots, Sclerotinia rot, White blister	Australia: No current concerns. UK: Withdrawn (2029). Canada: In re-evaluation
Bacillus amyloliquefaciens strain QST 713	BM02	Permit PER87630 Bacterial spot / Blight (Xanthomonas spp.) (Suppression only)	Australia: No current concerns. Permit PER87630 Expiry date: 31/03/2027
BOSCALID	7	Sclerotinia rot (Sclerotinia minor, S. sclerotiorum)	Australia: No current concerns. Codex MRL: 40 mg/Kg Canada: In re-evaluation
CHLOROTHALONIL	M5	PER82895 for the control of Downy Mildew, Alternaria Leaf Blight (Alternaria spp.), Grey Mould (Botrytis cinerea)	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Permit PER82895 Expiry date: 31/05/2030 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Anthracoese, Downy mildew	Australia: No current concerns.
CYAZOFAMID	21	Downy mildew (Hyaloperonospora spp)	Australia: No current concerns. Codex MRL: 15 mg/Kg Canada: In re-evaluation
CYPRODINIL	9	Products containing Fludioxonil + Cypronidil for the control of Grey mould and Sclerotinia rot	Australia: No current concerns. Codex MRL: 15 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation

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DIFENOCONAZOLE	3	Permit PER87973 for the control of Ring Spot	Australia: APVMA nominated for reconsideration after 2029. Permit PER87973 Expiry date: 30/06/2030 EU: Approved, candidate for substitution Canada: In re-evaluation
DIMETHOMORPH MANCOZEB	40 + M3	PER14958 for the control of Downy mildew, White Blister and Alternaria Leaf Spot	DIMETHOMORPH Australia: No current concerns. Permit PER14958 Expiry date: 31/10/2027 EU: Not approved Canada: In re-evaluation MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER80538 Expiry date: 31/05/2030 EU: Not approved USA: Under Registration Review (scheduled)
FLUDIOXONIL	12	Products containing Fludioxonil + Cypronidil for the control of Grey mould and Sclerotinia rot	Australia: No current concerns. Codex MRL: 15 mg/Kg EU: Approved, candidate for substitution
IPRODIONE	2	Grey mould; Sclerotinia rot	Australia: No current concerns. EU: Not approved USA: Under Registration Review (scheduled)
MANCOZEB	M3	Permit PER80538 for the control of Anthracnose and Septoria	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER80538 Expiry date: 31/05/2030 EU: Not approved USA: Under Registration Review (scheduled)
MANCOZEB + METALAXYL	M3 + 4	White blister Downy mildew	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER80538 Expiry date: 31/05/2030 EU: Not approved USA: Under Registration Review (scheduled) METALAXYL Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation

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MANDIPROPAMID	40	Downy mildew	Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Permit PER 14184 for the control of Damping off and downy mildew	Australia: No current concerns.
POTASSIUM BICARBONATE	M2	Permit PER13695 for the control of Powdery mildew	Australia: No current concerns. Permit PER13695 Expiry date: 30/06/2030 Canada: In re-evaluation
TRIADIMENOL	3	Ring Spot	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled
ZINEB	M3	PER10845 for the control of Cercospora leaf spot & Downy mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER10845 Expiry date: 31/03/2030 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
CLETHODIM	1	Australia: No current concerns. Permit PER82459 Expiry date: 30/09/2026
FLUAZIFOP-P	1	Australia: No current concerns Permit PER81244 Expiry date: 30/04/2027
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: Cancelled
PENDIMETHALIN	3	Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)
PROPACHLOR	15	Australia: No current concerns. Permit PER12008 Expiry date: 31/08/2028 EU: Not approved

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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.
METHYL BROMIDE	Disinfestation treatment of commodities	Australia: APVMA nominated for reconsideration after 2029. Permit PER96144 Expiry date: 31/01/2031 EU: Not approved Canada: Remaining pre-plant soil fumigation uses were cancelled (June 2025) USA: Restricted use

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