

Carrot

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Carrot 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
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
AFIDOPYROPEN	9D	Permit PER88430 for the control of Aphids; Carrot aphid; Green peach aphid Aphids including green peach aphid and carrot aphid	Australia: No current concerns. EU: Not approved Permit PER88430 Expiry date: 31/01/2028
CHLORPYRIFOS	1B	--	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
CYROMAZINE	17	Liriomyza species, including: Vegetable Leafminer (Liriomyza sativae) Serpentine Leafminer (Liriomyza huidobrensis)	Australia: No current concerns. EU: Not approved
DIAZINON	1B	--	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
EMAMECTIN	6	Cabbage white butterfly;Cluster caterpillar;Diamondback (Cabbage) moth;Helicoverpa;Loopers	Australia: Nominated for targeted spray drift reconsideration EU: Approved, candidate for substitution
FIPRONIL	2B	Permit PER86665 for the control of White fringed weevil and Symphylids	Australia: APVMA: Proposed Regulatory decision was expected by April 2026. APVMA is now advising the by end of 2026 at the earliest. Permit PER86665 Expiry date: 30/09/2026 Permit PER89402 Expiry date: 30/04/2027 Codex MRL: 0.002 mg/Kg EU: Not approved
FLUAZAINDOLIZINE	N-UN	Root Knot Nematode (Meloidogyne spp.)	Australia: No current concerns. EU: Pending
FLUBENDIAMIDE	28	Cabbage white butterfly;Cluster caterpillar;Diamondback (Cabbage) moth;Helicoverpa;Potato moth (Leafminer)	Australia: No current concerns. EU: Not approved
FLUENSULFONE	5	Root knot nematode	Australia: No current concerns. Codex MRL: 3 mg/Kg

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IMIDACLOPRID	4A	Greenhouse whitefly and aphids	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit PER10918 Expiry date: 31/10/2026 Codex MRL: 0.5 mg/Kg 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
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. Canada: In re-evaluation
METALDEHYDE	--	For the control of snails and slugs	Australia: No current concerns Canada: In re-evaluation
METHOMYL	1A	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 EU: Not approved Canada: In re-evaluation
PHORATE	1B	Aphids;Carrot aphid;Jassids;Thrips	Australia: APVMA reconsideration. Was to start 2026. APVMA to publish a new Chemical Review priority list by mid 2026 EU: Not approved Canada: In re-evaluation
PROPARGITE	12C	Two-spotted mites;Spider mites	Australia: APVMA reconsideration. Prioritised to be commenced by 2029 . EU: Not approved Canada: Cancelled
PYRIPROXYFEN	7C	Ants	Australia: No current concerns.
SPINETORAM	5	Caterpillars;Helicoverpa;Lightbrown apple moth;Loopers;Potato moth (Leafminer) Leaf miners Tomato Potato Psyllid (Bactericera cockerelli)	Australia: No current concerns. EU: Not approved Canada: In re-evaluation Permit PER94451 Expiry date: 31/07/2027

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SPINOSAD	5	Dipteran leaf miners	Australia: No current concerns. Canada: In re-evaluation Permit PER96806 Expiry date: 30/05/2031
SPODOPTERA FRUGIPERDA NPV	--	Fall Armyworm	Australia: No current concerns Permit PER90820 Expiry date: 31/03/2027
SULFOXAFLOX	4C	Green peach aphid	Australia: No current concerns.
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

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	Black rot;Powdery mildew;Sclerotinia rot;Alternaria leaf spot;Leaf spot Leaf blight;Powdery mildew	Australia: No current concerns. Codex MRL: 1 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation Permit PER93402 Expiry date: 31/05/2027
BOSCALID	7	Sclerotinia rot	Australia: No current concerns. Codex MRL: 2 mg/Kg Canada: In re-evaluation
CHLOROTHALONIL	M5	Alternaria leaf spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Codex MRL: 0.3 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Alternaria leaf spot;Cercospora leaf spot;Leaf diseases/spots;Leaf spot;Septoria leaf spot	Australia: No current concerns.
DIFENOCONAZOLE	3	Alternaria leaf spot;Leaf spot;Powdery mildew Leaf blight;Powdery mildew	Australia: APVMA nominated for reconsideration after 2029. Permit PER93402 Expiry date: 31/05/2027 EU: Approved, candidate for substitution Canada: In re-evaluation
IODINE	M	Postharvest bactericide	Australia: No current concerns. Canada: Cancelled
IPRODIONE	2	Black rot (Alternaria radicina) Suppression only Sclerotinia, Black rot & Grey Mould	Australia: No current concerns. EU: Not approved USA: Under Registration Review (scheduled) Permit PER84955 Expiry date: 30/11/2027
MANCOZEB	M3	Alternaria leaf spot; Cercospora leaf spot; Leaf diseases/spots; Septoria leaf spot; Powdery mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)

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MANCOZEB + METALAXYL	M3 + 4	Permit PER14045 for the control of Phytophthora soil fungus (Dieback); Pythium diseases: soil borne	<p>MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)</p> <p>METALAXYL Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation</p>
METALAXYL	4	Damping off; Phytophthora soil fungus (Dieback); Pythium diseases: soil borne	<p>Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation</p>
METIRAM	M3	Alternaria leaf spot; Leaf spot	<p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for foliar applications in potato crops.</p>
PENTHIOPYRAD	7	Alternaria leaf spot; Powdery mildew	<p>Australia: No current concerns. EU: Not approved</p>
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Damping off and downy mildew	<p>Australia: No current concerns. Permit PER14184 Expiry date: 31/03/2030</p>
PYDIFLUMETOFEN DIFENOCONAZOLE	7 + 3	Early blight; Powdery mildew; Cercospora leaf spot	<p>PYDIFLUMETOFEN Australia: No current concerns. EU: Pending Canada: In re-evaluation</p> <p>DIFENOCONAZOLE Australia: APVMA nominated for reconsideration after 2029. Permit PER93402 Expiry date: 31/05/2027 EU: Approved, candidate for substitution Canada: In re-evaluation</p>
TEBUCONAZOLE	3	Powdery mildew (Erysiphe heraclei) suppression only	<p>Australia: APVMA: Removed from nomination list - maintain watching brief EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)</p>
THIRAM	M3	Damping off	<p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for seed treatment.</p>
ZINEB	M3	Alternaria leaf spot; Cercospora leaf spot	<p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled</p>

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HERBICIDES – Weed Control

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Active Constituent	MoA Group	Risks and Comments
CLETHODIM	1	Australia: No current concerns. Permit PER82459 Expiry date: 30/09/2026
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: Nominated for targeted spray drift reconsideration Canada: Cancelled
GLYPHOSATE	9	Australia: Nominated for targeted spray drift reconsideration Permit PER13305 Expiry date: 30/11/2029 USA: Under Registration Review (scheduled)
LINURON	5	Australia: No current concerns. Permit PER95892 Expiry date: 31/01/2029 EU: Not approved
METRIBUZIN	5	Australia: No current concerns. Permit PER80169 Expiry date: 28/02/2029 EU: Not approved 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)
PROMETRYN	5	Australia: No current concerns. Permit PER12048 Expiry date: 30/04/2030 EU: Not approved
QUIZALOFOP-ETHYL	1	Australia: No current concerns. Canada: Cancelled
QUIZALOFOP-P-TEFURYL	1	Australia: No current concerns.
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

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

PLANT GROWTH REGULATORS AND OTHERS

Blue text = new APVMA approved uses

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Improve quality post-harvest.	Australia: No current concerns UK: Withdrawn (2034).

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R4	No current risk/concerns

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