

ARTICHOKE

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 artichoke 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 - Insect and other Pests Control

Active Constituent	MoA Group	Pest	Risks and Comments
AFIDOPYROPEN	9D	Cabbage aphid; Cotton aphid; Currant lettuce aphid; Green peach aphid; Silverleaf white fly (suppression)	Australia: No current concerns. EU: Not approved UK: No registrations Canada: No current review USA: Approved
BACILLUS THURINGIENSIS	11C	Lepidopteran larvae susceptible to <i>Bacillus thuringiensis</i> .	Australia: No current concerns EU: Under review
CHLORPYRIFOS	1B	Cutworms; Field crickets; Mole crickets; Spotted vegetable weevil; Vegetable weevil; Wingless grasshopper	Australia: The APVMA issued a Final Decision on 30 September 2024. Most uses were cancelled. Products with previously approved labels must not be possessed or used after September 30, 2025. Codex: All MRLs deleted EU: Not approved Canada: All uses cancelled 2023 USA: Upcoming review
CYROMAZINE	17	Liriomyza species, including Vegetable Leafminer (<i>L. sativae</i>) Serpentine Leafminer (<i>L. huidobrensis</i>)	Australia: Reviewed in 2014. No current concerns. PER81867-Expiry date-30/09/2026 Codex MRL: 3 mg/Kg EU: Not approved Canada: No current review
DIAZINON	1B	Caterpillars; webworms	Australia: APVMA made a Final Decision on 10 September 2024 . Agricultural uses were not supported during the review. NO use of cancelled labels after 10 September 2024. Codex: All MRLs deleted EU: Not approved Canada: No current review USA: Upcoming
FLUBENDIAMIDE	28	<i>Helicoverpa</i> spp.	Australia: No current concerns. EU: Authorisation expiry August 2024
METHIOCARB	1A	Snails and slugs	Australia: Reviewed in 2019. No current concerns. Codex MRL: 0.05 mg/Kg EU: Not approved Canada: No current review

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Active Constituent	MoA Group	Pest	Risks and Comments
PIRIMICARB	1A	Aphids	Australia: No current concerns. Codex MRL: 5 mg/Kg. JMPR re-evaluation scheduled. EU: Approved. Candidate for substitution. UK: Approved Canada: No current review USA: No registrations
POTASSIUM SALTS OF FATTY ACIDS		Aphids; Thrips; Mites; Whitefly	Australia: No current concerns. Canada: In review
PROPARGITE	12C		Australia: APVMA reconsideration . Prioritised to be commenced prior to November 2029 EU: Not approved Canada: No current review USA: Upcoming
PYRETHRINS	3A	Ants, Aphids, Caterpillars, Leafhoppers, Whiteflies	Australia: No current concerns. Canada: Under review
PYRIPROXYFEN	7C	Invasive and nuisance ants including Red imported fire ant, tropical fire ant, bigheaded ant (Coastal brown ant), yellow crazy ant, black ants, Singapore ant and other <i>Monomorium spp.</i> , pony ants (incl. green ants), meat ants, tyrant ants, green tree ants, longlegged ants, sugar ants and pennant ants	PER87728 exists but may not be necessary (expires 28/02/2026) Australia: No current concerns
SPINETORAM	5	Helicoverpa	Australia: No current concerns. EU: Not approved UK: Withdrawn. Expiry date: 30/09/2024 Canada: In review
SULFUR	UN	Mites	Australia: No current concerns.
TRICHLORFON	1B	Cabbage White Butterfly; Cabbage Moth; Green Vegetable Bug	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review USA: Upcoming

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FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
CHLOROTHALONIL	M5	Grey mould	Australia: APVMA reconsideration. Prioritised to be commenced on 2028. EU: Not approved Canada: In review USA: Upcoming
COPPER	M1	Leaf diseases	Australia: No current concerns. EU: Approved. Candidate for substitution.
HYDROGEN PEROXIDE + PEROXYACETIC ACID	M	Bactericide	Australia: No current concerns.
SULPHUR	M2	Rust	Australia: No current concerns. EU: Approved UK: Approved Canada: In review

HERBICIDES – Weed Control

Active constituent	MoA Group	Weed	Risks & Comments
Diquat (Vegetables)	22	Various broadleaf weeds and grasses.	APVMA proposed decisions published July 2024. Only uses up to 283gai/ha to be kept. Publication of the final regulatory decision is expected in December 2025 . Codex: No MRLs. EU: Not approved (withdrawn in 2018). UK: Not approved. USA: Registered (under review).
Glyphosate	9	Various broadleaf weeds and grasses.	Australia: APVMA nominated for reconsideration for targeted spray drift reconsideration. EU: Approved. UK: Approved. Canada: No current review. USA: Upcoming review.
Paraquat (Vegetables)	22	Various broadleaf weeds and grasses.	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 . Codex: No MRLs Canada: Not approved. EU and UK: Not approved (2007). USA: Restricted use (under review).

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