

## **Artichoke 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Artichoke 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  |

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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   |
|-------------------------------|-----------|---|--|
| AFIDOPYROPEN                  | 9D        | Cabbage aphid; Cotton aphid; Currant lettuce aphid; Green peach aphid; Silverleaf white fly (suppression)                                 | Australia: No current concerns.<br>EU: Not approved  |
| <i>Bacillus thuringiensis</i> | 11A       | Armyworm<br>Cotton bollworm<br>Native budworm<br>Cabbage moth<br>Cabbage white butterfly<br>Loopers<br>Lightbrown apple moth<br>Vine moth | Australia: No current concerns.<br>USA: Under Registration Review (scheduled)  |
| CHLORPYRIFOS                  | 1B        | Cutworms; Field crickets; Mole crickets; Spotted vegetable weevil; Vegetable weevil; Wingless grasshopper                                 | Australia: <a href="#">The chemical review was completed in September 2024</a> . 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.<br>EU: Not approved<br>Canada: Cancelled<br>USA: Agricultural uses cancelled. Very few registrations as Restricted Use Pesticide. |
| CYROMAZINE                    | 17        | PER81867 for the control of Leaf miner  | Australia: No current concerns.<br>Permit PER81867 Expiry date: 30/09/2026<br>Codex MRL: 3 mg/Kg<br>EU: Not approved   |

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|--------------------------------|-----------|---|--|
| DIAZINON                       | 1B        | Caterpillars; webworms                              | Australia: <a href="#">APVMA made a Final Decision on 2024</a> . After 10 September 2025, crop uses are no longer approved. Codex: All MRLs deleted<br>EU: Not approved<br>Canada: Cancelled<br>USA: Under Registration Review (scheduled) |
| FLUBENDIAMIDE                  | 28        | NO REGISTRATIONS IN THE CROP. PREVIOUS RRA          | Australia: No current concerns.<br>EU: Not approved<br>UK: Withdrawn (2024).   |
| PIRIMICARB                     | 1A        | Aphids  | Australia: No current concerns.<br>Codex MRL: 5 mg/Kg<br>EU: Approved, candidate for substitution.<br>Canada: Cancelled  |
| POTASSIUM SALTS OF FATTY ACIDS | --        | Aphids; Thrips; Mites; Whitefly                     | Australia: No current concerns.<br>Canada: In re-evaluation  |
| PROPARGITE                     | 12C       | SPIDER MITE, TWO SPOTTED MITE                       | Australia: <a href="#">APVMA reconsideration. Prioritised to be commenced by 2029</a> .<br>EU: Not approved<br>Canada: Cancelled<br>USA: Under Registration Review (scheduled)   |
| PYRETHRINS                     | 3A        | Ants, Aphids, Caterpillars, Leafhoppers, Whiteflies | Australia: No current concerns.  |
| PYRIPROXYFEN                   | 7C        | fire ant  | Australia: No current concerns.  |
| SPINETORAM                     | 5         | <i>Helicoverpa</i>                                  | Australia: No current concerns.<br>EU: Not approved<br>UK: Withdrawn (2024).<br>Canada: In re-evaluation   |
| SULFUR                         | UN        | Mites   | Australia: No current concerns.  |

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|--------------------|-----------|---|---|
| TRICHLORFON        | 1B        | Cabbage White Butterfly; Cabbage Moth;<br>Green Vegetable Bug | Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a><br>EU: Not approved<br>Canada: Cancelled<br>USA: Under Registration Review (scheduled) |

### FUNGICIDES – Disease Control

| Active Constituent                       | MoA Group | Pest          | Risks and Comments   |
|--|-----------|---------------|--|
| CHLOROTHALONIL                           | M5        | Grey mould    | Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2028.</a><br>EU: Not approved<br>Canada: In re-evaluation<br>USA: Under Registration Review (scheduled) |
| COPPER                                   | M1        | Leaf diseases | Australia: No current concerns.  |
| HYDROGEN PEROXIDE +<br>PEROXYACETIC ACID | M         | Bactericide   | Australia: No current concerns.  |
| SULPHUR                                  | M2        | Rust          | Australia: No current concerns.<br>Canada: In re-evaluation  |

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### HERBICIDES – Weed Control

| Active Constituent | MoA Group | Risks and Comments   |
|--------------------|-----------|--|
| DIQUAT             | 22        | Australia:APVMA: <a href="#">Currently under review</a> Publication of the final regulatory decision is now expected in Mid 2026.<br>EU: Not approved<br>USA: No agricultural uses allowed. Aquatic herbicide.             |
| PARAQUAT           | 22        | Australia:APVMA: <a href="#">Currently under review</a> Publication of the final regulatory decision is now expected in Mid 2026. Candidate chemical recommended to be listed to Rotterdam Convention.<br>EU: Not approved |

### 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<br>Australia: No current concerns.<br>EU: Not approved<br>USA: Restricted use<br><br>1,3-DICHLOROPROPENE<br>Australia: No current concerns.<br>EU: Pending<br>Canada: Cancelled |
| DAZOMET                            | Control of bacterial spot ( <i>Xanthomonas</i> spp.) (suppression only).<br>Soil insects and nematodes | Australia: No current concerns.<br>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.  |

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**Funding statement:** MT24008 –Regulatory Support & Response Co-ordination. This *multi-industry* project has been funded by Hort Innovation, using *industry research and development levies* and contributions from the Australian Government. Hort Innovation is the grower-owned, not-for-profit research and development corporation for Australian horticulture.

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