

Banana

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 banana crops 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
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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
ACEPHATE	1B	Banana flower thrips Banana rust thrips Banana scab moth	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
AFIDOPYROPEN	9D	Banana aphid Banana scab moth	Australia: No current concerns. EU: Not approved
<i>Bacillus thuringiensis</i>	11A	Banana scab moth Banana flower thrips Banana rust thrips	Australia: No current concerns. USA: Under Registration Review (scheduled)
BIFENTHRIN	3A	Banana flower thrips Banana rust thrips Banana scab moth Strawberry (banana) spider mite PER89389 for the control of Banana weevil borer	Australia: APVMA nominated for reconsideration after 2029. Permit PER89389 Expiry date: 31/07/2028 Codex MRL: 0.1 mg/Kg EU: Not approved Canada: Cancelled
CADUSAFOS	1B	Banana weevil borer Burrowing nematode Root-knot nematodes Spiral nematode	Australia: No current concerns. Codex MRL: 0.01 mg/Kg

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Active Constituent	MoA Group	Pest	Risks and Comments
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 USA: Agricultural uses cancelled. Very few registrations as Restricted Use Pesticide.
CLOFENTEZINE	10A	Strawberry (banana) spider mite Two-spotted (red spider) mite	Australia: No current concerns. EU: Not approved
CLOTHIANIDIN	4A	Banana rust thrips Banana weevil borer	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December2025 to October2026. Codex MRL: 0.02 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
DIAZINON	1B	Banana rust thrips, Banana weevil borer	Australia: 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 USA: Under Registration Review (scheduled)
ETOXAZOLE	10B	Strawberry (banana) spider mite	Australia: No current concerns. EU: Approved, candidate for substitution.
FENAMIPHOS	1B	Nematodes	Australia: No current concerns. Codex MRL: 0.05 mg/Kg UK: Withdrawn (Nov. 2025) USA: Restricted use

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FENBUTATIN OXIDE	12B	Strawberry (banana) spider mite Two-spotted (red spider) mite	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 10 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
FIPRONIL	2B	Banana rust thrips Banana weevil borer	Australia: APVMA: Currently under review. Proposed Regulatory decision expected by April 2026. Codex MRL: 0.005 mg/Kg EU: Not approved USA: Under Registration Review (scheduled)
IMIDACLOPRID	4A	Banana rust thrips Banana weevil borer Grey back cane beetle (larvae) PER88359 for the control of Banana aphid	Australia: APVMA: Currently under review. Proposed regulatory decisions expected between December 2025 to October 2026. Permit PER88359 Expiry date: 31/07/2028 Codex MRL: 0.05 mg/Kg EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
IMIDACLOPRID + SPIROTETRAMAT	4A + 23	Banana rust thrips Banana weevil borer	IMIDACLOPRID Australia: APVMA: Currently under review. Proposed regulatory decisions expected between December 2025 to October 2026. Codex MRL: 0.05 mg/Kg EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled) SPIROTETRAMAT Australia: No current concerns. EU: Not approved Canada: In re-evaluation

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OXAMYL	1A	Banana weevil borer Burrowing nematode Spiral nematode	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
PARAFFINIC OIL	UNM	Scale insects	Australia: No current concerns.
PROPARGITE	12C	Two-spotted (red spider) mite	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
PROTHIOFOS	1B	Banana weevil borer	Australia: No current concerns. EU: Not approved
PYRETHRINS	3A	Fruitfly Rutherglen bug Spiders	Australia: No current concerns.
PYRIDABEN	21A	Strawberry (banana) spider mite Two-spotted (red spider) mite	Australia: No current concerns.
PYRIPROXYFEN	7C	Various species of ants.	Australia: No current concerns.
SPINETORAM	5	Flower eating caterpillars Leafroller (tortrix) caterpillars Leafroller moths Loopers Redbanded thrips Sorghum head caterpillar Yellow peach moth PER87198 for the control of Banana rust thrips, Banana flower thrips and flower eating caterpillars	Australia: No current concerns. Permit PER87198 Expiry date: 31/12/2026 EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation

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SPINOSAD	5	Banana rust thrips Sugarcane bud moth PER89870 for the control of Fall Armyworm	Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030 Canada: In re-evaluation
SPIROTETRAMAT	23	PER88359 for the control of Banana aphid	Australia: No current concerns. Permit PER88359 Expiry date: 31/07/2028 EU: Not approved Canada: In re-evaluation
SULFUR	UN	PER9409 for the control of Mites	Australia: No current concerns. Permit PER9409 Expiry date: 30/06/2029
TERBUFOS	1B	Banana weevil borer Burrowing nematode	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
TETRANILIPROLE	28	Banana weevil borer	Australia: No current concerns.
TRICHLORFON	1B	PER12450 for the control of Fruit fly	Australia: APVMA nominated for reconsideration after 2029. Permit PER12450 Expiry date: 31/08/2030 EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

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FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
<i>Bacillus amyloliquefaciens</i> STRAIN QST 713	BM02	Yellow Sigatoka Common leaf speckle (suppression only)	Australia: No current concerns.
CHLOROTHALONIL	M5	Leaf speckle	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Codex MRL: 15 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Anthrachnose (black end)	Australia: No current concerns.
DIDECYL DIMETHYL AMMONIUM CHLORIDE	--	Aid in the control of the spread of Panama disease. Any vehicle, machinery, equipment or apparatus of any kind	Australia: No current concerns.
DIFENOCONAZOLE	3	Black sigatoka	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.1 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
EPOXICONAZOLE	3	Leaf speckle	Australia: No current concerns. EU: Not approved
FLUOPYRAM	7	Cordana leaf spot	Australia: No current concerns. Codex MRL: 0.8 mg/Kg

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Active Constituent	MoA Group	Pest	Risks and Comments
FLUOPYRAM + TEBUCONAZOLE	7 + 3	Cordana leaf spot	<p>FLUOPYRAM Australia: No current concerns. Codex MRL: 0.8 mg/Kg</p> <p>TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)</p>
FLUXAPYROXAD	7	Leaf speckle	<p>Australia: No current concerns. Codex MRL: 3 mg/Kg</p>
INPYRFLUXAM	7	Yellow sigatoka	Australia: No current concerns.
IODINE	M	Fungi (post-harvest)	<p>Australia: No current concerns. Canada: Cancelled</p>
ISOTIANIL	P03	Leaf speckle	<p>Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved</p>
MANCOZEB	M3	<p>Anthrachnose (black end)</p> <p>PER81199 for the control of banana fruit speckle</p>	<p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER81199 Expiry date: 30/06/2026 EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)</p>
METIRAM	M3	Black pit	<p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for foliar applications in potato crops.</p>
PARAFFINIC OIL	--	Black sigatoka	Australia: No current concerns.

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Active Constituent	MoA Group	Pest	Risks and Comments
PROCHLORAZ	3	Anthracnose (black end)	Australia: No current concerns. Codex MRL: 7 mg/Kg EU: Not approved
PROPICONAZOLE	3	Black sigatoka	Australia: APVMA nominated for reconsideration and spray drift assessment. Codex MRL: 0.1 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PYRACLOSTROBIN	11	Black sigatoka	Australia: No current concerns. Codex MRL: 0.02 mg/Kg Canada: In re-evaluation
PYRIMETHANIL	9	Cordana leaf spot	Australia: No current concerns. Codex MRL: 0.1 mg/Kg Canada: In re-evaluation
TEBUCONAZOLE	3	Black sigatoka	Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
THIABENDAZOLE	1	Anthracnose (black end)	Australia: No current concerns. Codex MRL: 5 mg/Kg
TRIFLOXYSTROBIN	11	Black sigatoka	Australia: No current concerns. Codex MRL: 0.05 mg/Kg Canada: In re-evaluation
ZINEB	M3	Leaf speckle	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled

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HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
2,2-DPA PRESENT AS THE SODIUM SALT	0	Australia: No current concerns. EU: Not approved
2,4-D	4	Australia: No current concerns. Canada: In re-evaluation USA: Under Registration Review (scheduled)
CARFENTRAZONE-ETHYL	14	Australia: No current concerns. Canada: In re-evaluation
DIQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is now expected in Mid 2026. Codex MRL: 0.02 mg/Kg EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
DIURON	5	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
FLUAZIFOP-P	1	Australia: No current concerns
GLUFOSINATE-AMMONIUM	10	Australia: APVMA Nominated for targeted spray drift reconsideration Codex MRL: 0.2 mg/Kg EU: Not approved Canada: In re-evaluation
GLYPHOSATE	9	Australia: APVMA Nominated for targeted spray drift reconsideration Codex MRL: 0.05 mg/Kg USA: Under Registration Review (scheduled)

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Active Constituent	MoA Group	Risks and Comments
GLYPHOSATE	9	Australia: APVMA Nominated for targeted spray drift reconsideration Permit PER14850 Expiry date: 31/10/2026 Codex MRL: 0.05 mg/Kg USA: Under Registration Review (scheduled)
HALOXYFOP	1	Australia: No current concerns. Codex MRL: 0.02 mg/Kg EU: Not approved
ORYZALIN	3	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).
PARAQUAT	22	Australia:APVMA: Currently under review . Publication of the final regulatory decision is now expected in Mid 2026. Candidate chemical recommended to be listed to Rotterdam Convention. Codex MRL: 0.01 mg/Kg EU: Not approved Canada: Cancelled USA: Restricted use

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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 Australia: No current concerns. EU: Not approved USA: Restricted use 1,3-DICHLOROPROPENE Australia: No current concerns. EU: Pending Canada: Cancelled
DAZOMET	Control of bacterial spot (Xanthomonas spp.) (suppression only). Soil insects and nematodes	Australia: No current concerns. 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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PLANT REGULATORS AND OTHERS – Plant regulators, post-harvest treatments, rodenticides and others.

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Post-harvest treatment to improve quality	Australia: No current concerns
BENZALKONIUM CHLORIDE	Motor Vehicles, Tools, Equipment and Footwear that come into contact with plant material or soil infected with Panama Disease	Australia: No current concerns. Permit PER86485 Expiry date: 31/05/2028 EU: Not approved
DIDECYL DIMETHYL AMMONIUM CHLORIDE	Motor Vehicles, Tools, Equipment and Footwear that come into contact with plant material or soil infected with Panama Disease	Australia: No current concerns. Permit PER86485 Expiry date: 31/05/2028
DIESEL DISTILLATE (UNREGISTERED PRODUCT)	Removal of Unwanted Suckers	Australia: No current concerns. Permit PER14237 Expiry date: 30/09/2029
ETHEPHON	Crop Timing Management	Australia: No current concerns Permit PER14966 Expiry date: 31/05/2028

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