

Sweet Corn 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Sweet Corn 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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Sweet Corn - Agrichemical Regulatory Risk Assessment

INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	Two-spotted (Red spider) mite PER96481 for the control of 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	Corn aphid Cotton aphid Green peach aphid	Australia: No current concerns. EU: Not approved
ALPHA-CYPERMETHRIN	3A	<i>Helicoverpa</i> Looper caterpillars PER80099 for the control of Mediterranean fruit fly and Queensland fruit fly PER85447 for the control of False codling moth	Australia: APVMA nominated for reconsideration after 2029 . Permit PER80099 Expiry date: 30/11/2029 Permit PER85447 Expiry date: 31/12/2029 EU: Not approved
AMORPHOUS SILICA	--	Cotton aphid	Australia: No current concerns.
<i>Bacillus thuringiensis</i>	11A	Armyworms Cabbage white butterfly Caterpillars Diamondback (Cabbage) moth <i>Helicoverpa</i> species Lightbrown apple moth Looper caterpillars Painted vine moth Potato moth (Leafminer) Soybean & Tobacco looper	Australia: No current concerns. USA: Under Registration Review (scheduled)

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Sweet Corn - Agrichemical Regulatory Risk Assessment

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BROFLANILIDE	30	PER95794 for the control of Cluster caterpillar	Australia: No current concerns. Permit PER95794 Expiry date: 31/07/2028
CHLORANTRANILIPROLE	28	Tomato leaf miner Helicoverpa Permit PER89259 for the control of Fall armyworm.	Australia: No current concerns. Permit PER89259 Expiry date: 31/01/2028 Codex MRL: 0.6 mg/Kg Canada: In re-evaluation
CHLORANTRANILIPROLE THIAMETOXAN	28 + 44A	Corn Earworm Native Budworm Potato Moth Cluster caterpillar Green peach aphid Silverleaf Whitefly Greenhouse whitefly Western Flower Thrips Tomato Thrips	CHLORANTRANILIPROLE Australia: No current concerns. Canada: In re-evaluation THIAMETOXAN Australia: APVMA: Currently under review. Proposed regulatory decisions expected between December 2025 to October 2026. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CLOTHIANIDIN	4A	Permit PER95268 for the control of Mediterranean fruit fly & Queensland fruit fly	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December 2025 to October 2026. Permit PER95268 Expiry date: 31/01/2026 Codex MRL: 0.05 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CYANTRANILIPROLE	28	Permit PER84805 for the control of Tomato Potato Psyllid Permit PER93849 for the control of <i>Liriomyza</i> leafminers	Australia: No current concerns. Permit PER84805 Expiry date: 31/12/2027 Permit PER93815 Expiry date: 31/12/2028 Codex MRL: 0.5 mg/Kg

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Sweet Corn - Agrichemical Regulatory Risk Assessment

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CYANTRANILIPROLE DIAFENTHIURON	28 + 12A	Silverleaf whitefly <i>Helicoverpa</i> Two-spotted mite	CYANTRANILIPROLE Australia: No current concerns. Codex MRL: 0.5 mg/Kg DIAFENTHIURON Australia: No current concerns. EU: Not approved
CYPERMETHRIN	3A	Australian plague locust Common armyworm <i>Helicoverpa</i> species Spur-throated locust	Australia: No current concerns. EU: Approved, candidate for substitution.
DELTAMETHRIN	3A	<i>Helicoverpa</i>	Australia: No current concerns. Codex MRL: 0.02 mg/Kg
DIMETHOATE	1B	Aphids Bugs Green vegetable bug Jassids Plague thrips Spur-throated locust Wingless grasshopper	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
EMAMECTIN	6	<i>Helicoverpa</i> species Fall armyworm	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Approved, candidate for substitution. UK: Withdrawn (2024).
ESFENVALERATE	3A	<i>Helicoverpa</i>	Australia: No current concerns. EU: Approved, candidate for substitution.
ETHYL FORMATE	8A	<i>Helicoverpa</i> Two-spotted spider mite Western lflower thrips	Australia: No current concerns. EU: Not approved

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Sweet Corn - Agrichemical Regulatory Risk Assessment

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ETOXAZOLE	10B	Permit PER88170 for the control of Two-spotted Mite	Australia: No current concerns. Permit PER88170 Expiry date: 30/11/2028 EU: Approved, candidate for substitution.
EUCALYPTOL D-LIMONENE + MORE	--	Moths of <i>Helicoverpa</i>	Australia: No current concerns.
FLUBENDIAMIDE	28	Heliothis Tomato leafminer	Australia: No current concerns. Codex MRL: 0.02 mg/Kg EU: Not approved UK: Withdrawn (2024).
HELCOVERPA ARMIGERA NPV	31	<i>Helicoverpa</i>	Australia: No current concerns.
IMIDACLOPRID	4A	Aphids Black field crickets Black field earwig Cutworms Eastern false wireworm Southern false wireworm, Sugarcane false wireworm, Striate false wireworm Wingless cockroaches Wireworm	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December2025 to October2026. Codex MRL: 0.02 mg/Kg EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
INDOXACARB	22A	<i>Helicoverpa</i> Cluster caterpillar Permit PER93815 for the control of Fall armyworm	Australia: No current concerns. Codex MRL: 0.02 mg/Kg EU: Not approved UK: Withdrawn (2024).

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Sweet Corn - Agrichemical Regulatory Risk Assessment

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METHOMYL	1A	<p>Armyworms Helicoverpa species</p> <p>PER82428 for the control of: Helicoverpa spp. Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including WFT</p>	<p>Australia: APVMA reconsideration. Prioritised to be commenced by 2026. Permit PER82428 Expiry date: 31/01/2029 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)</p>
METHOXYFENOZIDE	18	Permit PER84531 for the control of Lepidopteran Pests	<p>Australia: No current concerns. Permit PER84531 Expiry date: 30/06/2030 Codex MRL: 0.02 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation</p>
PARAFFINIC OIL	UNM	<p>Aphids Bugs Leafhoppers Mites Thrips Whiteflies</p>	Australia: No current concerns.
PERMETHRIN	3A	<i>Helicoverpa</i>	<p>Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.1 mg/Kg EU: Not approved</p>

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Sweet Corn - Agrichemical Regulatory Risk Assessment

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PETROLEUM OIL	UN	Aphids Bugs Leafhoppers Mites Thrips Whiteflies	Australia: No current concerns. EU: Not approved
PIRIMICARB	1A	Aphids Corn aphid	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: Cancelled
PROPARGITE	12C	Permit PER88179 for the control of Two-spotted Mite	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. Permit PER88179 Expiry date: 31/10/2027 EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
PYMETROZINE	9B	Corn aphid	Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Not approved Canada: Cancelled
SPINETORAM	5	<i>Helicoverpa</i> species Painted vine moth Western flower thrips Permit PER89241 for the control of Fall armyworm Permit PER94451 for the control of Leafminers.	Australia: No current concerns. Permit PER89241 Expiry date: 31/01/2028 + Permit PER94451 Expiry date: 31/07/2027 EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation

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Sweet Corn - Agrichemical Regulatory Risk Assessment

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SPINOSAD	5	Potato moth Heliothis Western flower thrips Permit PER89870 for the control of Fall armyworm. Permit PER94331 for the control of Dipteran leaf miners.	Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030 Permit PER94331 Expiry date: 30/04/2026 Codex MRL: 0.01 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Corn aphid	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
SPODOPTERA FRUGIPERDA NPV	--	Permit PER90820 for the control of Fall Armyworm	Australia: No current concerns. Permit PER90820 Expiry date: 31/03/2027
SULFOXAFLOX	4C	Green peach aphid	Australia: No current concerns.
TERBUFOS	1B	Wireworm	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
TETRANILIPROLE	28	Fall armyworm	Australia: No current concerns. Codex MRL: 0.4 mg/Kg
THIAMETHOXAM	4A	Eastern false wireworm Southern false wireworm, Sugarcane false wireworm, Striate false wireworm	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December2025 to October2026. Codex MRL: 0.7 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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Sweet Corn - Agrichemical Regulatory Risk Assessment

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THIODICARB	1A	<i>Helicoverpa</i>	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Not approved USA: Under Registration Review (scheduled)
TRICHLORFON	1B	Cabbage white butterfly Green vegetable bug Rutherglen bug	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
ZETA-CYPERMETHRIN	3A	Common armyworm <i>Helicoverpa</i> species	Australia: No current concerns. EU: Not approved

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Sweet Corn - Agrichemical Regulatory Risk Assessment

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
<i>Aureobasidium pullulans</i>	--	Botrytis Grey Mould Suppression of: Sclerotinia	Australia: No current concerns.
AZOXYSTROBIN CYPROCONAZOLE	11 + 3	Rust (Common & Polysora) Turcicum leaf blight /Northern corn leaf blight	AZOXYSTROBIN Australia: No current concerns. Canada: In re-evaluation CYPROCONAZOLE Australia: APVMA nominated for reconsideration after 2029. EU: Not approved UK: Withdrawn (2024).
AZOXYSTROBIN + TEBUCONAZOLE	11 + 3	Permit PER86245 for the control of Maize Rust	Permit PER86245 Expiry date: 28/02/2026 AZOXYSTROBIN Australia: No current concerns. Canada: In re-evaluation TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 0.6 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
CHLOROTHALONIL	M5	Turcicum leaf blight Northern corn leaf blight	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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Sweet Corn - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Pest	Risks and Comments
FLUDIOXONIL	12	Damping off (seed treatment)	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Approved, candidate for substitution.
FLUDIOXONIL METALAXYL-M	12 + 4	Damping off Fusarium root rot (seed treatment)	FLUDIOXONIL Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Approved, candidate for substitution. METALAXYL-M Australia: No current concerns.
METALAXYL	4	Downy mildew (seed treatment)	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: In re-evaluation
METALAXYL-M	4	Downy mildew (seed treatment)	Australia: No current concerns.
PROPICONAZOLE	3	PER13116 for the control of Northern Corn Leaf Blight	Australia: APVMA nominated for reconsideration and spray drift assessment. Permit PER13116 Expiry date: 31/01/2026 Codex MRL: 0.05 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
SULPHUR	M2	Powdery Mildew Bean Rust Tomato Russet Mite Bean Spider Mite Twospotted Mite	Australia: No current concerns. Canada: In re-evaluation

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Sweet Corn - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Pest	Risks and Comments
THIRAM CARBOXIN	M3 + 7	Boil smut Seedborne head smut Seed decay/Seedling blight complex (seed treatment)	THIRAM Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for seed treatment. CARBOXIN Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).

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Sweet Corn - Agrichemical Regulatory Risk Assessment

HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
2,4-D	4	Australia: No current concerns. Codex MRL: 0.05 mg/Kg Canada: In re-evaluation USA: Under Registration Review (scheduled)
ATRAZINE	5	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CYANAZINE	5	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled
DIMETHENAMID-P	15	Australia: No current concerns. Codex MRL: 0.01 mg/Kg Canada: In re-evaluation
DIQUAT	22	Australia: APVMA: Currently under review. Publication of the final regulatory decision is expected in Mid 2026. EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
FLUROXYPYR	4	Australia: APVMA Nominated for targeted spray drift reconsideration
GLUFOSINATE-AMMONIUM	10	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Not approved Canada: In re-evaluation
GLYPHOSATE	9	Australia: APVMA Nominated for targeted spray drift reconsideration Codex MRL: 3 mg/Kg USA: Under Registration Review (scheduled)

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Sweet Corn - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Risks and Comments
HALOSULFURON-METHYL	2	Australia: No current concerns. EU: Approved, candidate for substitution.
LINURON	5	Australia: No current concerns. EU: Not approved
MCPA	4	Australia: Chemical reconsideration for Group 4 - Phenoxy-carboxylate herbicides. Spray drift. Prioritised for Q3 2025. Canada: In re-evaluation USA: Under Registration Review (scheduled)
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: Cancelled
PENDIMETHALIN	3	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
PICLORAM	4	Australia: APVMA nominated for reconsideration and spray drift assessment. USA: Restricted use
TERBUTHYLAZINE	5	Australia: No current concerns. UK: Withdrawn (2024).

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Sweet Corn - Agrichemical Regulatory Risk Assessment

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 (<i>Xanthomonas</i> 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.

PLANT REGULATORS AND OTHERS – Plant regulators, post-harvest treatments, rodenticides and others.

Active Constituent	Use	Risks and Comments
ZINC PHOSPHIDE	Permit PER93053 for the control of rats & mice.	Australia: No current concerns. Permit PER93053 Expiry date: 30/11/2025 UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)

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Sweet Corn - Agrichemical Regulatory Risk Assessment

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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Communications Manager

Hort Innovation

Level 7, 141 Walker Street

North Sydney NSW 2060

Australia

Email: communications@horticulture.com.au

Phone: 02 8295 2300