

#### 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 **Sweet Corn** in Australia, as well as assisting with any current initiatives aimed at identifying and addressing pest management deficiencies.

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	
ABAMECTIN	6	Two-spotted (Red spider) mite	Australia: APVMA nominated for reconsideration and spray drift assessment EU: Approved Canada: In review	
AFIDOPYROPEN	9D	Corn aphid Cotton aphid Green peach aphid	Australia: No current concerns. EU: Not approved UK: No registrations Canada: No current review USA: Approved	
ALPHA-CYPERMETHRIN	3A	Helicoverpa Looper caterpillars Permit PER80099 for the control of Fall armyworm	Australia: APVMA nominated for reconsideration after 2029 Permit PER80099 Expiry date: 30/11/2029 EU: Not approved Canada: No current review	
AMORPHOUS SILICA	<del></del>	Cotton aphid	Australia: No current concerns.	

Active Constituent	MoA Group	Pest	Risks and Comments	
Bacillus thuringiensis	11A	Armyworms Cabbage white butterfly Caterpillars Diamondback (Cabbage) moth Helicoverpa species Lightbrown apple moth Looper caterpillars Painted vine moth Potato moth (Leafminer) Soybean & Tobacco looper	Australia: No current concerns. USA: Review upcoming	
CHLORANTRANILIPROLE	28	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 EU: Approved UK: Approved Canada: In review	
CHLORPYRIFOS	1B	Ants, cutworm, mealybugs, vegetable weevil, white flies, wingless grasshopper Australian plague locust, Migratory locust, Spurthroated locust (PER11843 – expired 31-Jul-2024)	Australia: The APVMA issued a final decision in September 2024. All fruiting vegetable uses were cancelled. Products with previously approved labels must not be possessed or used after September 30, 2025. The final decision was published in the <u>APVMA Official Gazette on October 3, 2024.</u> Codex: All Codex MRLs deleted   EU: Not approved   Canada: All uses cancelled 2023   USA: Upcoming review	
CLOTHIANIDIN	4A	Permit PER95268 for the control of Mediterranean fruit fly & Queensland fruit fly	Australia: APVMA: Currently under review. Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. Permit PER95268 Expiry date: 31/01/2026 Codex MRL: 0.05 mg/Kg EU: Not approved Canada: In review USA: Review upcoming	

Active Constituent	MoA Group	Pest	Risks and Comments
CYANTRANILIPROLE	28	Permit PER84805 for the control of Tomato Potato Psyllid  Permit PER93849 for the control of Liriomyza leafminers	Australia: No current concerns. Permit PER84805 Expiry date: 31/12/2027 Permit PER93849 Expiry date: 31/12/2026 Codex MRL: 0.5 mg/Kg EU: Approved UK: Approved Canada: No current review
CYANTRANILIPROLE   DIAFENTHIURON	28 + 12A	Silverleaf whitefly Helicoverpa Two-spotted mite	CYANTRANILIPROLE Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Approved UK: Approved Canada: No current review  DIAFENTHIURON Australia: No current concerns. EU: Not approved
CYPERMETHRIN	3A	Australian plague locust Common armyworm Helicoverpa species Spur-throated locust	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: No current review
DELTAMETHRIN	3A	Helicoverpa	Australia: No current concerns. Codex MRL: 0.02 mg/Kg EU: Approved UK: Approved Canada: No current review
DIAZINON	1B	Cutworms	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 2025. Publication of <a href="#">Final Decision</a> Codex: All MRLs deleted   EU: Not approved   Canada: No current review   USA: Upcoming

Active Constituent	MoA Group	Pest	Risks and Comments	
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 review  USA: Review upcoming	
EMAMECTIN	6	Helicoverpa species Fall armyworm	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration  EU: Approved, candidate for substitution.  UK: Withdrawn. Expiry date: 30/11/2024  Canada: No current review	
ESFENVALERATE	3A	Helicoverpa	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved	
ETHYL FORMATE	8A	Helicoverpa Two-spotted spider mite Western flower thrips	Australia: APVMA: no current concerns. EU: Not approved	
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. UK: Approved Canada: No current review	
EUCALYPTOL   D- LIMONENE + MORE		Moths of Helicoverpa		

Active Constituent	MoA Group	Pest	Risks and Comments	
HELICOVERPA ARMIGERA NPV	31	Helicoverpa	Australia: No current concerns. EU: Approved	
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 Dec. 2025 to Oct. 2026. Codex MRL: 0.02 mg/Kg EU: Not approved Canada: Field uses cancelled or amended USA: Re-registration with risk mitigation measures. Review upcoming	
INDOXACARB	22A	Helicoverpa Cluster caterpillar Permit PER93815 for the control of Fall armyworm	Australia: No current concerns. Permit PER93815 Expiry date: 31/12/2028 Codex MRL: 0.02 mg/Kg EU: Not approved UK: Withdrawn. Expiry date: 31/08/2024 Canada: No registrations.	
METHOMYL	1A	Armyworms Helicoverpa species	Australia: APVMA reconsideration. Prioritised to be commenced by 2026.  EU: Not approved Canada: In review USA: Review upcoming	
METHOXYFENOZIDE	18	Permit PER84531 for the control of Lepidopteran Pests	Australia: No current concerns. Permit PER84531 Expiry date: 30/06/2030 Codex MRL: 0.02 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: In review	

Active Constituent	MoA Group	Pest	Risks and Comments
PARAFFINIC OIL	UNM	Aphids Bugs Leafhoppers Mites Thrips Whiteflies	Australia: No current concerns.
PERMETHRIN	3A	Helicoverpa	Australia: APVMA nominated for reconsideration after 2029 Codex MRL: 0.1 mg/Kg EU: Not approved Canada: No current review
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. UK: Approved Canada: No current review USA: No registrations
PROPARGITE	<b>12</b> C	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: No current review USA: Review upcoming
PYMETROZINE	9В	Corn aphid	Australia: APVMA nominated for reconsideration and spray drift assessment EU: Not approved Canada: No current review

Active Constituent	MoA Group	Pest	Risks and Comments
SPINETORAM 5		Helicoverpa 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. Expiry date: 30/09/2024 Canada: In review
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: Reviewed in 2014. No current concerns. Permit PER89870 Expiry date: 31/07/2025 Permit PER94331 Expiry date: 30/04/2026 Codex MRL: 0.01 mg/Kg EU: Approved UK: Approved Canada: In review
SPIROTETRAMAT	23	Corn aphid	Australia: No current concerns. EU: Not approved UK: Approved Canada: In review
SPODOPTERA FRUGIPERDA NPV		Permit PER90820 for the control of Fall Armyworm (Unregistered product)	Permit PER90820 Expiry date: 31/03/2027
SULFOXAFLOR	4C	Green peach aphid	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review

Active Constituent	MoA Group	Pest	Risks and Comments
TERBUFOS	1B	Wireworm	Australia: No current concerns. Codex MRL: 0.01 mg/Kg. Unsupported, possible deletion. EU: Not approved Canada: No current review USA: Review upcoming
TETRANILIPROLE	28	Fall armyworm	Australia: No current concerns. Codex MRL: 0.4 mg/Kg Canada: No current review
THIAMETHOXAM	4A	Eastern false wireworm Southern false wireworm, Sugarcane false wireworm, Striate false wireworm	Australia: APVMA: Currently under review. Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. Codex MRL: 0.7 mg/Kg EU: Not approved Canada: In review USA: Review upcoming
THIODICARB	1A	Helicoverpa	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration EU: Not approved Canada: No current review USA: Review upcoming
TRICHLORFON	1B	Cabbage white butterfly Green vegetable bug Rutherglen bug	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review USA: Review upcoming
ZETA-CYPERMETHRIN	3A	Common armyworm Helicoverpa species	Australia: No current concerns. EU: Not approved Canada: No current review

## **FUNGICIDES** – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN   CYPROCONAZOLE	11+3	Rust (Common and Polysora) Turcicum leaf blight /Northern corn leaf blight	AZOXYSTROBIN Australia: No current concerns. EU: Approved UK: Approved Canada: In review  CYPROCONAZOLE Australia: APVMA nominated for reconsideration after 2029 EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024
AZOXYSTROBIN   TEBUCONAZOLE	11+3	Permit PER86245 for the control of Maize Rust	Permit PER86245 Expiry date: 28/02/2026  AZOXYSTROBIN Australia: No current concerns. EU: Approved UK: Approved Canada: In review  TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 0.6 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: Phase-Out USA: Review upcoming
CHLOROTHALONIL	M5	Turcicum leaf blight Northern corn leaf blight	Australia: APVMA reconsideration. Prioritised to be commenced by 2028.  EU: Not approved Canada: In review USA: Review upcoming

FLUDIOXONIL	12	Damping off (seed treatment)	Australia: No current concerns.  Codex MRL: 0.01 mg/Kg EU: Approved, candidate for substitution.  UK: Approved Canada: No current review
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. UK: Approved Canada: No current review  METALAXYL-M Australia: No current concerns. EU: Approved UK: Approved
METALAXYL	4	Downy mildew (seed treatment)	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: In review
METALAXYL-M	4	Downy mildew (seed treatment)	Australia: No current concerns. EU: Approved UK: Approved
PROPICONAZOLE	3	Permit 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 review  USA: Review upcoming

THIRAM   CARBOXIN	M3 + 7	Boil smut	THIRAM
		Seedborne head smut	Australia: APVMA reconsideration. Prioritised to be commenced by 2027.
		Seed decay/Seedling blight complex	EU: Not approved
			Canada: Cancelled all foliar uses.
		(seed treatment)	
			CARBOXIN
			Australia: No current concerns.
			EU: Not approved
			UK: Withdrawn. Expiry date: 31/05/2024

#### **HERBICIDES** – Weed Control

Active Constituent	MoA Group	Risks and Comments
2,4-D	4	Australia: Reviewed in 2020. No current concerns.  Codex MRL: 0.05 mg/Kg  EU: Approved  UK: Approved  Canada: Phase-Out  USA: Review upcoming
ATRAZINE	5	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration.  EU: Not approved  USA: Review upcoming
CYANAZINE	5	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review

DIMETHENAMID-P	15	Australia: No current concerns.  Codex MRL: 0.01 mg/Kg  EU: Approved  UK: Approved  Canada: In review
DIQUAT (Vegetables)	22	APVMA proposed decisions published July 2024. Only uses in 'Fruiting vegetables other than cucurbits' up to 283gai/ha to be kept. Publication of the final regulatory decision is expected in December 2025.  Codex: No MRL  EU: Not approved (withdrawn in 2018).  UK: Not approved.  USA: Registered (under review).
EPTC	15	Australia: No current concerns. EU: Not approved Canada: In review
FLUROXYPYR	4	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration.  EU: Approved  UK: Approved
GLUFOSINATE - AMMONIUM	10	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration  EU: Not approved  Canada: In review
GLYPHOSATE	9	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration  Codex MRL: 3 mg/Kg  EU: Approved  UK: Approved  Canada: No current review  USA: Review upcoming
HALOSULFURON-METHYL	2	Australia: No current concerns. EU: Approved, candidate for substitution.

LINURON	5	Australia: No current concerns. EU: Not approved Canada: Special review decision. Cancellation of many uses.
MCPA	4	Australia: No current concerns. EU: Approved UK: Approved USA: Review upcoming
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: No current review
PENDIMETHALIN	3	Australia: No current concerns.  Codex MRL: 0.05 mg/Kg  EU: Approved, candidate for substitution.  UK: Approved  Canada: In review  USA: Review upcoming
PARAQUAT (Vegetables)	22	APVMA proposed decisions July 2024. It is proposed to remove uses in fruiting vegetables. Only uses up to 231gai/ha to be kept. Publication of the final regulatory decision is expected in <u>December 2025</u> .  Codex: 0.02 mg/Kg (2006) Fruiting vegetables, cucurbits (group)  Canada: Not approved.  EU and UK: Not approved (2007).  USA: Restricted use (under review).
PICLORAM	4	Australia: APVMA nominated for reconsideration and spray drift assessment  EU: Approved  UK: Approved
TERBUTHYLAZINE	5	Australia: No current concerns. EU: Approved UK: Withdrawn. Expiry date: 31/12/2024

#### **PLANT GROWTH REGULATORS** – and others

Active Constituent	Use	Risks and Comments
Zinc phosphide	Permit PER93053 for the control of	Australia: No current concerns.
	rats & mice.	Permit PER93053 Expiry date: 30/11/2025
		EU: Approved
		UK: Withdrawn. Expiry date: 31/07/2024
		Canada: In review
		USA: Review upcoming

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.

#### Disclaimer

Horticulture Innovation Australia Limited (Hort Innovation) makes no representations and expressly disclaims all warranties (to the extent permitted by law) about the accuracy, completeness, or currency of information in MT24008 – Regulatory Support & Response Co-ordination Reliance on any information provided by Hort Innovation is entirely at your own risk. Hort Innovation is not responsible for, and will not be liable for, any loss, damage, claim, expense, cost (including legal costs) or other liability arising in any way, including from any Hort Innovation or other person's negligence or otherwise from your use or non-use of MT24008 – Regulatory Support & Response Co-ordination, or from reliance on information contained in the material or that Hort Innovation provides to you by any other means.

#### Legal notice

Copyright © Horticulture Innovation Australia Limited 2025

Copyright subsists in Ag-Chemical Update. Horticulture Innovation Australia Limited (Hort Innovation) owns the copyright, other than as permitted under the Copyright ACT 1968 (Cth). The Ag-Chemical Update (in part or as a whole) cannot be reproduced, published, communicated or adapted without the prior written consent of Hort Innovation. Any request or enquiry to use the Ag-Chemical Update should be addressed to:

Communications Manager

Hort Innovation

Level 7, 141 Walker Street

North Sydney NSW 2060

Australia

Email: communications@horticulture.com.au

Phone: 02 8295 2300