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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

INSECTICIDES/MITICIDES/NEMATICIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	Leaf Miner	Australia: APVMA nominated for reconsideration and spray drift assessment. Codex MRL: 0.03 mg/Kg Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
AFIDOPYROPEN	9D	aphid, Green peach aphid, Silverleaf whitefly	Australia: No current concerns. Codex MRL: 3 mg/Kg EU: Not approved
Bacillus thuringiensis		Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)
BIFENTHRIN		PER86599 for the control of Red legged earthmite	Australia: APVMA nominated for reconsideration after 2029. Permit PER86599 Expiry date: 31/10/2028 EU: Not approved Canada: Cancelled
BUPROFEZIN	16	PER82467 for the control of greenhouse whitefly	Australia: No current concerns. Permit PER82467 Expiry date: 31/03/2030

Active Constituent	MoA Group	Pest	Risks and Comments
CHLORANTRANILIPROLE	28	PER93850 for the control of Leaf miners	Australia: No current concerns. Permit PER93850 Expiry date: 31/12/2026 Codex MRL: 7 mg/Kg Canada: In re-evaluation
CHLORPYRIFOS	1B	PER82358 for the control of Helicoverpa armigera	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.
CYANTRANILIPROLE	28	PER93850 for the control of Leaf miners	Australia: No current concerns. Permit PER93850 Expiry date: 31/12/2026 Codex MRL: 15 mg/Kg
CYROMAZINE	17	Liriomyza species	Australia: No current concerns. Codex MRL: 4 mg/Kg EU: Not approved
EMAMECTIN	6	PER88066 for the control of Helicoverpa, Lightbrown Apple Moth & Cluster Caterpillar.	Australia: APVMA Nominated for targeted spray drift reconsideration Permit PER88066 Expiry date: 30/06/2029 EU: Approved, candidate for substitution. UK: Withdrawn (2024).
ESFENVALERATE	3A	PER82358 for the control of Helicoverpa armigera	Australia: No current concerns. Permit PER82358 Expiry date: 31/01/2026 EU: Approved, candidate for substitution.
FIPRONIL	2В	PER83203 for the control of WESTERN FLOWER THRIPS, ONION THRIPS	Australia: APVMA: <u>Currently under review.</u> Proposed Regulatory decision expected by April 2026. Permit PER83203 Expiry date: 30/09/2026 EU: Not approved USA: Under Registration Review (scheduled)

Active Constituent	MoA Group	Pest	Risks and Comments
FLUBENDIAMIDE	28	PER94451 for the control of Leaf miners	Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Not approved UK: Withdrawn (2024).
IMIDACLOPRID	4A	PER12489 for the control of Aphids, whitefly, thrips	Australia: APVMA: Currently under review. Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. Permit PER12489 Expiry date: 31/12/2026 Codex MRL: 6 mg/Kg EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
INDOXACARB	22A	PER14843 for the control of Lucerne leaf roller	Australia: No current concerns. Permit PER14843 Expiry date: 30/06/2029 EU: Not approved UK: Withdrawn (2024).
ISOCYCLOSERAM	30	PER96481 for the control of LEAF MINER	Australia: No current concerns.
MALATHION	1B	PER94331 for the control of Dipteran leaf miners	Australia: The final regulatory decision was published in an APVMA Special Gazette on 2 May 2024. Labels have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026. UK: Withdrawn (2025). Canada: In re-evaluation USA: Under Registration Review (scheduled)
NUCLEAR POLYHEDROSIS VIRUS OF helicoverpa armigera		Helicoverpa armigera (Corn earworm, cotton bollworm, tobacco budworm) Helicoverpa punctigera (Native budworm)	Australia: No current concerns.
NUCLEAR POLYHEDROSIS VIRUS OF <i>helicoverpa zea</i>		Helicoverpa	Australia: No current concerns.

Active Constituent	MoA Group	Pest	Risks and Comments
ORANGE OIL		Suppression: Onion thrips (<i>Thrips tabaci</i>) & Western flower thrips (<i>Frankliniella occidentalis</i>) Green peach aphid (<i>Myzus persicae</i>) & Cabbage aphid (<i>Brevicoryne brassicae</i>) Serpentine leafminer (<i>Liriomyza brassicae</i>)	Australia: No current concerns.
PERMETHRIN	3A	Helicoverpa spp., Lucerne leaf roller	Australia: <u>APVMA nominated for reconsideration after 2029.</u> Codex MRL: 2 mg/Kg EU: Not approved
PETROLEUM OIL	UN	Aphids, Green mirid, Green vegetable bug, Grey cluster bug, Leafhoppers, Mites, Rutherglen bug, Thrips	Australia: No current concerns. Permit PER12221 Expiry date: 30/09/2027 EU: Not approved
PIRIMICARB	1A	Aphids, Cotton aphid, Green peach aphid	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: Cancelled
PYMETROZINE	9B	Aphids	Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Not approved Canada: Cancelled
SPINETORAM	5	Helicoverpa. Permit PER94451 for the control of leaf miners.	Australia: No current concerns. Permit PER94451 Expiry date: 31/07/2027 Codex MRL: 6 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	Helicoverpa. Permit PER94331 for the control of dipteran leaf miners.	Australia: No current concerns. Permit PER94331 Expiry date: 30/04/2026 Codex MRL: 2 mg/Kg Canada: In re-evaluation

Active Constituent	MoA Group	Pest	Risks and Comments
SPIROTETRAMAT	23	Western flower thrips. Permit PER88640 for the control of Liriomyza leafminers	Australia: No current concerns. Permit PER88640 Expiry date: 28/02/2026 Codex MRL: 4 mg/Kg EU: Not approved Canada: In re-evaluation
SULFOXAFLOR	4C	Green peach aphid	Australia: No current concerns. Codex MRL: 1.5 mg/Kg
TRICHLORFON	1B		Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
BOSCALID	7	Sclerotinia rot	Australia: No current concerns. Permit PER11127 Expiry date: 31/03/2028 Canada: In re-evaluation
CHLOROTHALONIL	M5	Septoria spot, Early blight	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Codex MRL: 20 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Bacterial soft rot, Early blight, Leaf spots, Septoria spot, Soft rot	Australia: No current concerns.

Active Constituent	MoA Group	Pest	Risks and Comments
DIFENOCONAZOLE	3	Septoria spot, Early blight	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 3 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
HYDROGEN PEROXIDE PEROXYACETIC ACID	М	Cercospora Leaf Spot (Cercospora spp)	Australia: No current concerns EU: Approved
IPRODIONE	2	Sclerotinia rot	Australia: No current concerns. EU: Not approved USA: Under Registration Review (scheduled)
MANCOZEB	M3	Early blight, Leaf spots, Powdery mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)
METALAXYL-M + MANCOZEB	M3 + 4	Permit PER13673 for the control of Septoria spot	Australia: MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled) METALAXYL Australia: No current concerns. Codex MRL: 0.02 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation Permit PER13673 Expiry date: 31/07/2026
METIRAM	M3	Early blight, Septoria Spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for foliar applications in potato crops.

Active Constituent	MoA Group	Pest	Risks and Comments
PENTHIOPYRAD	7	Early blight (Target spot, Leaf spot) (Alternaria spp.), Powdery mildew (Erysiphe spp.)	Australia: No current concerns. Codex MRL: 15 mg/Kg
PROPICONAZOLE	3	Early blight, Septoria Spot	Australia: APVMA nominated for reconsideration and spray drift assessment. Permit PER14479 Expiry date: 31/08/2029 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PROPINEB	M3	Septoria spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved
PYDIFLUMETOFEN DIFENOCONAZOLE	7+3	Cercospora leaf spot (Cercospora apii) Septoria leaf spot (Septoria apiicola)	DIFENOCONAZOLE Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation PYDIFLUMETOFEN Australia: No current concerns. EU: Pending Canada: In re-evaluation
THIRAM	МЗ	Anthracnose, Botrytis rot, Septoria spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for seed treatment.
TRIFLOXYSTROBIN	11	Cercospora leaf spot (Cercospora apii) Septoria leaf spot (Septoria apiicola)	Australia: No current concerns. Permit PER14494 Expiry date: 31/08/2027 Codex MRL: 1 mg/Kg Canada: In re-evaluation
ZINEB	М3	Early blight, Septoria Spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled

Active Constituent	MoA Group	Pest	Risks and Comments
ZIRAM	M3	Septoria spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Approved, candidate for substitution. UK: Withdrawn (2024). Canada: Cancelled

HERBICIDES – Weed Control

ACTIVE CONSTITUENT	MoA Group	Risks and Comments
CLETHODIM	1	Australia: No current concerns.
DIQUAT	22	Australia: APVMA: <u>Currently under review.</u> Publication of the final regulatory decision is now expected in Mid 2026 . EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: APVMA Nominated for targeted spray drift reconsideration Canada: Cancelled
GLYPHOSATE	9	Australia: Nominated for targeted spray drift reconsideration USA: Under Registration Review (scheduled)
LINURON	5	Australia: No current concerns. EU: Not approved
PARAQUAT	22	Australia: APVMA: <u>Currently under review.</u> Publication of the final regulatory decision is now expected in Mid 2026 . Candidate chemical recommended to be listed to Rotterdam Convention. EU: Not approved Canada: Cancelled USA: Restricted use
PROMETRYN	5	Australia: No current concerns. Permit PER13114 Expiry date: 31/03/2027 EU: Not approved

Fumigants – Mixed Function

Active Constituent	Use	Risks and Comments
CHLOROPICRIN + 1,3-	Control of soil borne diseases, plant parasitic	CHLOROPICRIN
DICHLOROPROPENE	Nematodes, Symphylans and Wireworms	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.)	Australia: No current concerns.
	(suppression only). Soil insects and nematodes	USA: Under Registration Review (scheduled)
ETHANEDINITRILE	Soil borne pathogens, nematodes and weeds	Australia: No current concerns.
LITANEDINITRILE	Son borne patriogens, hematoues and weeks	Australia. No current concerns.
METHAM PRESENT AS	Germinating weeds and soil-borne fungus	Australia: No current concerns.
SODIUM SALT	diseases	

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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