

CELERY

Agrichemical Regulatory Risk Assessment

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

Celery - Agrichemical Regulatory Risk Assessment

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
AFIDOPYROPEN	9D	Cabbage aphid, Cotton aphid, Currant lettuce aphid, Green peach aphid, Silverleaf whitefly	Australia: No current concerns. EU: Not approved UK: No registrations Canada: No current review USA: Approved
BIFENTHRIN	3A	Permit PER86599 for the control of Red legged earth mite	Australia: APVMA nominated for reconsideration after 2029 Permit PER86599 Expiry date: 31/10/2028 EU: Not approved Canada: No current review
BUPROFEZIN	16	Greenhouse whitefly	Australia: No current concerns. Permit PER82467 Expiry date: 31/03/2030 EU: Approved UK: Approved Canada: No current review
CHLORANTRANILIPROLE	28	Helicoverpa spp.	Australia: No current concerns. Codex MRL: 7 mg/Kg EU: Approved UK: Approved Canada: In review
CHLORPYRIFOS	1B	Permit PER14583 for the control of African black beetle, False wireworms and Wireworms	Australia: The APVMA issued a final decision on 30 September 2024. All stalk and stem crop 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 APVMA Official Gazette on October 3, 2024 . Codex: All Codex MRLs deleted. Permit PER14583 Expiry date: 31/07/2025 EU: Not approved Canada: All uses cancelled 2023 USA: Upcoming review
CYANTRANILIPROLE	28	Permit PER93850 for the control of Leaf miners	Australia: Permit PER93850 Expiry date: 31/12/2026 Codex MRL: 15 mg/Kg EU: Approved UK: Approved Canada: No current review
CYROMAZINE	17	Liriomyza species, including Vegetable Leafminer; Serpentine Leafminer (PER81867)	Australia: Reviewed in 2014. No current concerns. PER81867 expires 30 September 2026 EU: Not approved Canada: No current review

Celery - Agrichemical Regulatory Risk Assessment

DIAZINON	1B	Caterpillar, Cutworms	Australia: APVMA made a Final Decision on September 2024 . Agricultural uses were not supported during the review. NO use of cancelled labels after 10 September 2025. EU: Not approved Canada: No current review USA: Upcoming review
EMAMECTIN	6	Permit PER88066 for the control of Helicoverpa, Lightbrown Apple Moth & Cluster Caterpillar.	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration. Permit PER88066 Expiry date: 30/06/2029 EU: Approved. Candidate for substitution. UK: Withdrawn. Expiry date: 30/11/2024 Canada: No current review
ESFENVALERATE	3A	Lucerne leaf roller, Heliothis. Permit PER82358 for the control of Helicoverpa armigera	Australia: No current concerns. Permit PER82358 Expiry date: 31/01/2026 EU: Approved. Candidate for substitution. UK: Approved
FIPRONIL	2B	Western Flower Thrips	Australia: APVMA: Currently under review Proposed regulatory decision due April 2026. Permit PER83203 Expiry date: 30/09/2026 EU: Not approved USA: Upcoming review
FLUBENDIAMIDE	28		Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Not approved UK: Withdrawn. Expiry date: 30/11/2024 Canada: No current review USA: No registrations
IMIDACLOPRID	4A	Permit 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: Field uses were cancelled USA: Upcoming review
INDOXACARB	22A	Beet web worm, Cotton Bollworm, Native Budworm, Lightbrown apple moth, Vegetable weevil. Permit PER14843 for the control of Lucerne leafroller	Australia: No current concerns. EU: Not approved UK: Withdrawn. Expiry date: 31/08/2024
ISOCYCLOSERAM	30	Permit PER94854 for the control of Serpentine leaf miner	Australia: No current concerns. Permit PER94854 Expiry date: 31/08/2025 Canada: No current review
MALATHION	1B	Aphids, Cabbage moth, Cabbage white butterfly, Green vegetable bug, Jassids, Leaf hoppers, Rutherglen bug, Thrips	Australia: The final regulatory decision was published in an APVMA Special Gazette on 2 May 2024 . Labels containing malathion as an active constituent have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026. EU: Approved UK: Withdrawn. Expiry date: 30/04/2025 Canada: In review USA: Upcoming review
METHOMYL	1A	Helicoverpa spp. Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including WFT (PER82428)	Australia: APVMA nominated for reconsideration 1ST quarter 2026

Celery - Agrichemical Regulatory Risk Assessment

NUCLEAR POLYHEDROSIS VIRUS OF <i>HELICOVERPA ARMIGERA</i>	31	<i>Helicoverpa armigera</i> , <i>Helicoverpa punctigera</i>	Australia: No current concerns. EU: Approved
PERMETHRIN	3A	<i>Helicoverpa</i> spp., Lucerne leaf roller	Australia: APVMA nominated for reconsideration after 2029 Codex MRL: 2 mg/Kg EU: Not approved Canada: No current review
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
PIRIMICARB	1A	Aphids, Cotton aphid, Green peach aphid	Australia: No current concerns. EU: Approved. Candidate for substitution. UK: Approved Canada: No current review USA: No registrations
PYMETROZINE	9B	Aphids	Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Not approved Canada: No current review
SPINETORAM	5	<i>Helicoverpa</i> . 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. Expiry date: 30/09/2024 Canada: In review
SPINOSAD	5	<i>Helicoverpa</i> . Permit PER94331 for the control of dipteran leaf miners.	Australia: Reviewed in 2014. No current concerns. Permit PER94331 Expiry date: 30/04/2026 Codex MRL: 2 mg/Kg EU: Approved UK: Approved Canada: In review
SPIROTETRAMAT	23	Cotton aphid, Plague thrips, Tomato thrips, Western flower thrips. Permit PER88640 for the control of <i>Liriomyza</i> leafminer	Australia: No current concerns. Permit PER88640 Expiry date: 28/02/2026 Codex MRL: 4 mg/Kg EU: Not approved UK: Approved Canada: In review
SULFOXAFLOX	4C	Green peach aphid	Australia: No current concerns. Codex MRL: 1.5 mg/Kg EU: Approved UK: Approved Canada: No current review
TRICHLORFON	1B	Cutworms, Cabbage white butterfly, Green vegetable bug	Australia: APVMA nominated for reconsideration after 2029 Codex: No MRLs EU: Not approved Canada: No current review USA: Upcoming review

Celery - Agrichemical Regulatory Risk Assessment

Active Constituent	MoA Group	Pest	Risks and Comments
BOSCALID	7	Sclerotinia rot	Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Approved UK: Approved Canada: In review
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 review USA: Upcoming review
COPPER	M1	Bacterial soft rot, Early blight, Leaf spots, Septoria spot, Soft rot	Australia: No current concerns. EU: Approved. Candidate for substitution. Canada: No current review
DIFENOCONAZOLE	3	Septoria spot, Early blight	Australia: APVMA nominated for reconsideration after 2029 Codex MRL: 3 mg/Kg EU: Approved. Candidate for substitution. UK: Approved Canada: In review
HYDROGEN PEROXIDE PEROXYACETIC ACID	M	Cercospora Leaf Spot	Australia: No current concerns. EU: Approved
IPRODIONE	2	Sclerotinia rot	Australia: No current concerns. EU: Not approved UK: Canada: No current review USA: Upcoming review
MANCOZEB	M3	Early blight, Leaf spots, Powdery mildew	Australia: APVMA reconsideration . Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024 Canada: Most of uses were cancelled USA: Upcoming review
METALAXYL-M + MANCOZEB	4 + M3	Permit PER13673 for the control of Septoria spot	Permit PER13673 Expiry date: 31/07/2026 METALAXYL-M Australia: No current concerns. EU: Approved UK: Approved Canada: In review MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced in 2027. EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024 Canada: No current review USA: Upcoming review
METIRAM	M3	Early blight, Septoria Spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027 . Codex: To be reviewed. EU: Not approved UK: Approved Canada: No current review

Celery - Agrichemical Regulatory Risk Assessment

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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 review USA: Upcoming review
PROPINEB	M3	Septoria spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved
PYDIFLUMETOFEN DIFENOCONAZOLE	3 + 7	Cercospora leaf spot, Septoria leaf spot	PYDIFLUMETOFEN Australia: No current concerns. EU: Pending UK: Approved Canada: In review DIFENOCONAZOLE Australia: APVMA nominated for reconsideration Codex MRL: 3 mg/Kg EU: Approved UK: Approved Canada: In review
THIRAM	M3	Anthrachnose, Botrytis rot, Septoria spot	Australia: APVMA reconsideration. Prioritised to be commenced in 2027. EU: Not approved Canada: No current review
TRIFLOXYSTROBIN	11	Cercospora leaf spot, Septoria leaf spot	Australia: No current concerns. Permit PER14494 Expiry date: 31/08/2027 Codex MRL: 1 mg/Kg EU: Approved UK: Approved Canada: In review
ZINEB	M3	Early blight, Septoria Spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: No current review
ZIRAM	M3	Septoria spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Approved. Candidate for substitution. UK: Withdrawn. Expiry date: 30/04/2024 Canada: No current review

Celery - Agrichemical Regulatory Risk Assessment

HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CLETHODIM	1	Australia: No current concerns. Codex: MRL proposed for deletion. EU: Approved UK: Approved Canada: No current review
DIQUAT (Vegetables)	22	APVMA proposed decisions published July 2024. Only uses up to 283gai/ha to be kept. Publication of the final regulatory decision is expected in December 2025 . Codex: No MRLs. EU: Not approved (withdrawn in 2018). UK: Not approved. USA: Registered (under review).
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration
GLYPHOSATE	9	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration EU: Approved UK: Approved Canada: No current review USA:
LINURON	5	Australia: No current concerns. EU: Not approved Canada: No current review. Cancellation of uses proposed.
PARAQUAT (Vegetables)	22	APVMA proposed decisions July 2024. Only uses up to 231gai/ha to be kept. Publication of the final regulatory decision is expected in December 2025 . Codex: No MRLs Canada: Not approved. EU and UK: Not approved (2007). USA: Restricted use (under review).
PROMETRYN	5	Australia: No current concerns. EU: Not approved

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Celery - Agrichemical Regulatory Risk Assessment

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