

SPRING ONION AND SHALLOT

Agrichemical Regulatory Risk Assessment

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

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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/NEMATOCIDES - Insect and other Pests Control

Active Constituent	MoA Group	Pest	Risks and Comments
1,3-DICHLOROPROPENE I CHLOROPICRIN	8A + 8B	Fusarium and Verticillium wilts Rhizoctonia Wireworms Symphylans	1,3-DICHLOROPROPENE Australia: no current concerns. Canada: No current review USA: Review upcoming CHLOROPICRIN Australia: APVMA: no current concerns. EU: Not approved Canada: No current review
ABAMECTIN	6	Two spotted mite	Australia: APVMA nominated for reconsideration and spray drift assessment Codex MRL: 0.005 mg/Kg EU: Approved Canada: In review
AFIDOPYROPEN	9D	Green peach aphid Cabbage aphid Currant lettuce aphid Cotton aphid/Melon aphid Corn aphid	Australia: No current concerns. EU: Not approved UK: No registrations Canada: No current review USA: Approved

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Active Constituent	MoA Group	Pest	Risks and Comments
ALPHA-CYPERMETHRIN	3A	Permit PER14457 for the control of onion thrips and red-legged earth mite	Australia: APVMA nominated for reconsideration after 2029 Permit PER14457 Expiry date: 31/03/2029 Codex MRL: 0.05 mg/Kg EU: Not approved Canada: No current review
<i>Bacillus thuringiensis</i>	11A	Armyworm Cotton bollworm Native budworm	Australia: No current concerns. USA: Review upcoming
CANOLA OIL PYRETHRINS	3A	Aphids, thrips, caterpillars, butterfly & cabbage moth), whitefly, ants, flies, earwigs, leafhopper, two-spotted mite, scale, mealybug, sooty mould	CANOLA OIL Australia: No current concerns. Canada: No current review PYRETHRINS Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
CHLORPYRIFOS	1B	Cutworm, vegetable weevil, wingless grasshopper	Australia: The APVMA issued a final decision on 30 September 2024. Use in onions and shallots was 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 EU: Not approved Canada: All uses cancelled 2023 USA: Upcoming review
CYANTRANILIPROLE	28	Onion Thrips Permit PER94854 for the control of leaf miners	Australia: No current concerns. Permit PER93849 Expiry date: 31/12/2026 Codex MRL: 8 mg/Kg EU: Approved UK: Approved Canada: No current review

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Active Constituent	MoA Group	Pest	Risks and Comments
DIAZINON	1B	Permit PER82551 for the control of onion maggot and thrips	Australia: APVMA made a Final Decision on 10 September 2024 . Agricultural uses were not supported during the review. Approved use on all vegetables ceases 10 September 2025. Codex: All MRLs deleted EU: Not approved Canada: No current review USA: Review upcoming
EMULSIFIABLE BOTANICAL OIL	--	Greenhouse whitefly	Australia: No current concerns.
FLONICAMID	29	Permit PER89185 for the control of onion thrips and western flower thrips	Australia: No current concerns. Permit PER89185 Expiry date: 31/05/2027 EU: Approved Canada: No current review
GARLIC EXTRACT	--	Parasitic nematodes living freely in the soil	Australia: No current concerns. EU: Approved UK: Approved
ISOCYCLOSERAM	30	Onion Thrips Plague Thrips Permit PER94854 for the control of Serpentine leaf miner	Australia: No current concerns. Permit PER94854 Expiry date: 31/08/2025 Canada: No current review
LAMBDA-CYHALOTHRIN	3A	Onion Thrips Permit PER14471 for the control of onion thrips, plague thrips, red-legged earth mite	Australia: No current concerns. Permit PER14471 Expiry date: 31/03/2029 Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: No current review

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Active Constituent	MoA Group	Pest	Risks and Comments
MALATHION	1B	Onion Thrip Permit PER13653 for the control of onion thrips	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. Permit PER13653 Expiry date: 30/09/2029 Codex MRL: 5 mg/Kg EU: Approved UK: Withdrawn. Expiry date: 30/04/2025 Canada: In review USA: Review upcoming
METHOMYL	1A	Permit PER14890 for the control of western flower thrips Permit PER82428 for the control of: Helicoverpa spp. Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including WFT	Australia: APVMA reconsideration. Prioritised to be commenced by 2026 . Permit PER14890 Expiry date: 31/07/2029 Permit PER82428 Expiry date: 31/01/2029 EU: Not approved Canada: In review USA: Review upcoming
PETROLEUM OIL	UN	Permit PER12221 for the control of Aphids, Green mirid, Green vegetable bug, Leafhoppers, Mites, Rutherglen bugs and Thrips	Australia: No current concerns. Permit PER12221 Expiry date: 30/09/2027 EU: Not approved

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Active Constituent	MoA Group	Pest	Risks and Comments
PHORATE	1B	Onion maggot Thrips Permit PER8930 for the control of Thrips, Aphids, Jassids, Mites, Onion seedling maggot	Australia: APVMA reconsideration. Prioritised to be commenced by 2026. Permit PER8930 Expiry date: 31/08/2029 EU: Not approved Canada: In review USA: Review upcoming
PIRIMICARB	1A	Aphids	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: No current review USA: No registrations
POTASSIUM SALTS OF FATTY ACIDS	--	Aphids Thrips Mealybug Two-spotted mite Spider mite Whitefly	Australia: No current concerns.
PYRIPROXYFEN	7C	Ant species	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
SPINETORAM	5	Western flower thrips Onion thrips	Australia: No current concerns. Codex MRL: 0.8 mg/Kg EU: Not approved UK: Withdrawn. Expiry date: 30/09/2024 Canada: In review

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Active Constituent	MoA Group	Pest	Risks and Comments
SPIROTETRAMAT	23	Western flower thrips Onion thrips	Australia: No current concerns. EU: Not approved UK: Approved Canada: In review
TRICHLORFON	1B	Cabbage White Butterfly Cabbage Moth Green Vegetable Bug	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review USA: Review upcoming

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	White rot	Australia: No current concerns. Codex MRL: 10 mg/Kg EU: Approved UK: Approved Canada: In review

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Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN OXATHIPIPROLIN	11 + 49	Downy mildew	<p>AZOXYSTROBIN Australia: No current concerns. Codex MRL: 10 mg/Kg EU: Approved UK: Approved Canada: In review</p> <p>OXATHIPIPROLIN Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved UK: Approved Canada: No current review</p>
BOSCALID	7	Neck rot	<p>Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Approved UK: Approved Canada: In review</p>
CHLOROTHALONIL	M5	Downy mildew Permit PER82895 for the control of Downy mildew and Grey mould	<p>Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Permit PER82895 Expiry date: 31/05/2030 Codex MRL: 10 mg/Kg EU: Not approved Canada: In review USA: Review upcoming</p>
COPPER	M1	Downy mildew Permit PER14842 for the control of Downy mildew	<p>Australia: No current concerns. Permit PER14842 Expiry date: 31/05/2029 EU: Approved, candidate for substitution. Canada: No current review</p>

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Active Constituent	MoA Group	Pest	Risks and Comments
DIMETHOMORPH	40	Downy mildew Permit PER14473 for the control of: Downy mildew Purple blotch Botrytis rots	Australia: No current concerns. Permit PER14473 Expiry date: 29/02/2028 Codex MRL: 9 mg/Kg EU: Not approved UK: Approved Canada: No current review
DIMETHOMORPH AMETOCTRADIN	40 + 45	Downy mildew	DIMETHOMORPH Australia: No current concerns. Codex MRL: 9 mg/Kg EU: Not approved UK: Approved Canada: No current review AMETOCTRADIN Australia: No current concerns. Codex MRL: 20 mg/Kg EU: Approved UK: Approved Canada: No current review
FLUDIOXONIL CYPRODINIL	12 + 9	Suppression only: Black mould, Grey mould	FLUDIOXONIL Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: No current review CYPRODINIL Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: In review

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Active Constituent	MoA Group	Pest	Risks and Comments
FLUOPYRAM TEBUCONAZOLE	7 + 3	Suppression only: White rot	<p>FLUOPYRAM</p> <p>Australia: No current concerns. Codex MRL: 15 mg/Kg EU: Approved UK: Approved Canada: No current review</p> <p>TEBUCONAZOLE</p> <p>Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: Phase-Out USA: Review upcoming</p>
HYDROGEN PEROXIDE PEROXYACETIC ACID	--	Neck & Bulb Rot Downy Mildew	<p>HYDROGEN PEROXIDE</p> <p>Australia: No current concerns UK: Approved Canada: No current review</p> <p>PEROXYACETIC ACID</p> <p>Australia: No current concerns Canada: No current review</p>
IODINE	M	Fungi	<p>Australia: No current concerns. Canada: No current review</p>
MANCOZEB	M3	Permit PER14473 for the control of: Downy mildew Purple blotch Botrytis rots	<p>MANCOZEB</p> <p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER14473 Expiry date: 29/02/2028 EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024 Canada: Most of uses cancelled USA: Review upcoming</p>

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Active Constituent	MoA Group	Pest	Risks and Comments
MANCOZEB OXATHIPIPROLIN	M3 + 49	Downy mildew	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. OXATHIPIPROLIN Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved UK: Approved
OXATHIPIPROLIN	49	Downy mildew	Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved UK: Approved
PENTHIOPYRAD	7	Botrytis blight and Neck rot Purple blotch	Australia: No current concerns. Codex MRL: 4 mg/Kg EU: Approved UK: Approved Canada: No current review
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Permit PER13698 for the control of Downy mildew	Australia: No current concerns Permit PER13698 Expiry date: 30/09/2025
PROPAMOCARB FLUOPICOLIDE	28 + 43	Downy mildew	PROPAMOCARB Australia: No current concerns. EU: Approved UK: Approved FLUOPICOLIDE Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: No current review

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Active Constituent	MoA Group	Pest	Risks and Comments
SULPHUR	M2	Powdery Mildew Rust Black Spot Mites	Australia: No current concerns. UK: Approved Canada: In review
TEBUCONAZOLE	3	White root rot	Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: Phase-Out USA: Review upcoming
TRIADIMENOL	3	Permit PER14906 for the control of White rot	Australia: APVMA nominated for reconsideration after 2029 Permit PER14906 Expiry date: 31/07/2029 EU: Not approved Canada: No current review

HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
2,4-D	4	Australia: Reviewed in 2020. No current concerns. EU: Approved UK: Approved USA: Review upcoming

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Active Constituent	MoA Group	Risks and Comments
AMMONIUM THIOCYANATE AMITROLE	34	AMMONIUM THIOCYANATE Australia: No current concerns. AMITROLE Australia: APVMA nominated for reconsideration after 2029 Canada: No current review
ATRAZINE	5	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration EU: Not approved USA: Review upcoming
CHLORTHAL DIMETHYL	3	APVMA cancelled all products containing chlorthal dimethyl in October 2024. The use of chlorthal dimethyl as an agricultural chemical product is now illegal. EU: Not approved
CLETHODIM	1	Australia: No current concerns. Permit PER82459 Expiry date: 30/09/2026 EU: Approved UK: Approved Canada: No current review
DIQUAT (Bulb Vegetables)	22	APVMA proposed decisions published July 2024. Some use in Bulb onions is proposed to be kept (Only uses up to 283gai/ha). 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 Permit PER82556 Expiry date: 30/11/2027 EU: Approved Canada: No current review

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Active Constituent	MoA Group	Risks and Comments
GLYPHOSATE	9	Australia: APVMA nominated for reconsideration for targeted spray drift reconsideration Permit PER86434 Expiry date: 31/05/2028 EU: Approved UK: Approved Canada: No current review USA: Review upcoming
IOXYNIL	5	Australia: No current concerns. EU: Not approved
LINURON	5	Australia: No current concerns. EU: Not approved Canada: Special review decision. Cancellation of many uses.
METHABENZTHIAZURON	5	Australia: No current concerns. Permit PER14742 Expiry date: 28/02/2029 EU: Not approved
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: No current review
PARQUAT (Bulb Vegetables)	22	APVMA proposed decisions published 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. EU: Not approved (withdrawn in 2018). UK: Not approved. USA: Registered (under review).
PENDIMETHALIN	3	Australia: No current concerns. Codex MRL: 0.4 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: In review USA: Review upcoming

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Active Constituent	MoA Group	Risks and Comments
PROPACHLOR	15	Australia: No current concerns. Permit PER12008 Expiry date: 30/11/2025 EU: Not approved
PROPYZAMIDE	3	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: No current review
QUIZALOFOP-P-ETHYL	1	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
SETHOXYDIM	1	Australia: No current concerns. EU: Not approved Canada: Phase-Out
SIMAZINE	5	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved
S-METOLACHLOR	15	Australia: No current concerns. EU: Not approved UK: Approved
SULFOMETURON	2	Australia: No current concerns.

PLANT GROWTH REGULATORS – and others

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Active Constituent	Use	Risks and Comments
IRON EDTA COMPLEX	Common garden snail	Australia: No current concerns.
METALDEHYDE	Snails, slugs	Australia: No current concerns. EU: Approved UK: Approved Canada: In review

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