

CUCUMBERS 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 cucumbers 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	Root-knot nematodes; Two-spotted (Red spider) mite; Western flower thrips; Permit PER14722 for the control of Red tomato spider mite.	Australia: APVMA nominated for reconsideration and spray drift assessment. PER14755 – Expiry date: 31/05/2030. EU: Approved Canada: In review
AFIDOPYROPEN	9D	Cabbage aphid; Currant lettuce aphid; Cotton / melon aphid; Green peach aphid; Silverleaf whiteflies	Australia: No current concerns. EU: Not approved UK: No registrations Canada: No current review USA: Approved
ALPHA-CYPERMETHRIN	3A	Permit PER80138 for the control of Cucumber fruit fly	Australia: APVMA nominated for reconsideration after 2029 Permit PER80138 Expiry date: 31/12/2029 EU: Not approved Canada: No current review
Bacillus thuringiensis SUBSP. ISRAELENSIS (SEROTYPE H-14) STRAIN AM65-52	11	Permit PER14694 for the control of Fungus Gnats (Sciaridae spp.)	Australia: Permit PER14694 Expiry date: 31/03/2029 EU: Approved
BETA-CYFLUTHRIN	3A	Cucumber moth; Helicoverpa	Australia: No current concerns. EU: Not approved Canada: No current review
BIFENAZATE	20D	Bryobia mite; Two-spotted (Red spider) mite. Permit PER82341 for the control of Red tomato spider mite	Australia: No current concerns. Permit PER82341 Expiry date: 31/01/2030 Codex MRL: 0.5 mg/Kg EU: Approved UK: Approved Canada: In review
BIFENTHRIN	3A	Caterpillars; Cucumber moth; Helicoverpa; Mites; Moths; Silverleaf whiteflies; Thrips; Whiteflies; Yellow spotted stink bug	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review
BUPROFEZIN	16	Permit PER82467 for the control of Greenhouse whitefly, Sweet potato whitefly, Silverleaf whitefly (SLW).	Australia: No current concerns. Permit PER82467 Expiry date: 31/03/2030 Codex MRL: 0.7 mg/Kg EU: Approved UK: Approved Canada: No current review

Active Constituent	MoA Group	Pest	Risks and Comments
CARBARYL	1A	Spotted potato ladybird; Armyworms; Cucurbit stem borer; Cutworms; European earwig; Green vegetable bug; Helicoverpa; Leaf eating ladybirds; Potato moth (Leafminer); Pumpkin beetle; Rutherglen bug; Wingless grasshopper	Australia: No current concerns. EU: Not approved Canada: In review USA: Review upcoming
CHLORANTRANILIPROLE	28	Cucumber moth; Helicoverpa	Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Approved UK: Approved Canada: In review
CHLORPYRIFOS	1B	Ants, Australian plague locust, Field crickets / Mole crickets, Migratory locust, Spur-throated locust, Whiteflies, Yellow spotted stink bug	Australia: The APVMA issued a final decision in September 2024. All cucurbit 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 EU: Not approved Canada: All uses cancelled 2023 USA: Upcoming review
CLITORIA TERNATEA EXTRACT		Silverleaf whitefly (biotype b)	Australia: No current concerns.
CLOTHIANIDIN	4A	Permit PER95266 for the control of Cucumber Fruit Fly	Australia: APVMA: APVMA: Currently under review. Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. Permit PER95266 Expiry date: 31/01/2026 Codex MRL: 0.02 mg/Kg EU: Not approved Canada: In review USA: Review upcoming
CYANTRANILIPROLE	28	Cotton / melon aphid; Cucumber moth; Helicoverpa; Silverleaf whiteflies; Western flower thrips; Vegetable leafminer	Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Approved UK: Approved Canada: No current review
CYANTRANILIPROLE + DIAFENTHIURON	12A + 28	Permit PER 92919 for the control of silverleaf whitefly, melon aphid, green peach aphid & others	Australia: Permit PER92919 Expiry date: 31/10/2026 CIANTRANILIPROLE Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Approved UK: Approved Canada: No current review DIAFENTHIURON Australia: No current concerns. EU: Not approved

Active Constituent	MoA Group	Pest	Risks and Comments
CYFLUMETOFEN	25A	Permit PER 94594 for the control of Two-Spotted Mite	Australia: No current concerns. Permit PER94594 Expiry date: 31/01/2028 EU: Approved UK: Approved Canada: No current review
CYROMAZINE	17	Vegetable leafminer (PER81867)	Australia: No current concerns. Permit PER94594 Expiry date: 30/09/2026 EU: No Authorisation
DIAZINON	18	No uses approved in Australia	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 Final Decision Codex: All MRLs deleted EU: Not approved Canada: No current review USA: Upcoming
DIMETHOATE	1B	Cucumber fly	Australia: APVMA reconsideration. Prioritised to be commenced in 2029. EU: Not approved Canada: In review USA: Review upcoming
DIMPROPYRIDAZ	36	Melon aphid; Greenhouse whitefly; Silverleaf whitefly	Australia: No current concerns. Codex MRL: Codex: Evaluation for MRLs scheduled for 2025 EU: Pending
EMAMECTIN	6	Cluster caterpillar; Cucumber moth; Helicoverpa; Tomato grub	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
EMULSIFIABLE BOTANICAL OILS		Two-spotted mite (<i>T. urticae</i>), Aphids, Sooty mould. Permit PER14077 for the control of Silverleaf whitefly	Australia: No current concerns. Permit PER14077 Expiry date: 31/07/2028.
ETOXAZOLE	10B	Permit PER82460 for the control of two spotted mites and red spider mite	Australia: No current concerns. Permit PER82460 Expiry date: 31/05/2028 EU: Approved, candidate for substitution. UK: Approved Canada: No current review
FATTY ACIDS - K SALT	UN	Greenhouse whitefly (<i>Trialeurodes vaporariorum</i>) Silverleaf whitefly (<i>Bemisia tabaci</i>) (PER13920)	Australia: No current concerns. Permit PER13920 Expiry date: 31/12/2027.

Active Constituent	MoA Group	Pest	Risks and Comments
FLONICAMID	29	Cotton / melon aphid; Green peach aphid; Silverleaf whiteflies	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Approved Canada: No current review
FLUAZAINDOLIZINE	N-UN	Root-knot nematodes	Australia: No current concerns. EU: Pending Canada: No current review
FLUBENDIAMIDE	28	Cluster caterpillar; Helicoverpa	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved UK: Withdrawn. Expiry date: 30/11/2024 Canada: No current review USA: No registrations
FLUENSULFONE		Root-knot nematodes	Australia: No current concerns. Canada: No current review
FLUPYRADIFURONE	4D	Cotton / melon aphid; Green peach aphid; Greenhouse whitefly; Silverleaf whiteflies	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
HEXYTHIAZOX	10A	Permit PER95394 for the control of Tomato spider mite, Twospotted mite, Broad mite, Tomato russet mite	Australia: No current concerns. Permit PER95394 Expiry date: 30/09/2029 Codex MRL: 0.05 mg/Kg EU: Approved UK: Approved Canada: No current review
IMIDACLOPRID	4A	Green peach aphid; Silverleaf whiteflies; Greenhouse whitefly. 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 EU: Not approved Canada: Field uses cancelled or amended USA: Re-registration with risk mitigation measures. Review upcoming
ISOCYCLOSERAM	30	Two-spotted mites; Broad mite (Suppression); Bean red spider mite (Suppression); Cucumber moth; Thrips (Suppression); Helicoverpa spp (Suppression)	Australia: No current concerns. Canada: No current review
MALATHION	18	Spotted potato ladybird; Aphids; Fruit flies; Green vegetable bug; Jassids; Leafhoppers; Pumpkin beetle; Redlegged earth mite; Rutherglen bug; Spur-throated locust	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: Review upcoming Codex MRL: 0.2 mg/kg (2004) Australia = 3 mg/kg
METHOMYL	1A	Cluster caterpillar; Cucumber moth; Helicoverpa; Loopers; Rutherglen bug; Thrips; Webworms; Western flower thrips	Australia: APVMA reconsideration. Prioritised to be commenced by 2026. Codex MRL: 0.1 mg/Kg EU: Not approved Canada: In review USA: Review upcoming

Active Constituent	MoA Group	Pest	Risks and Comments
NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ARMIGERA		Helicoverpa spp.	Australia: No current concerns. EU: Approved
PETROLEUM OIL	UN	Aphids; Leafhoppers; Mites; Thrips. Permit PER12221 for the control of Greenhouse whitefly, Sweet potato whitefly, Silverleaf whitefly B biotype and Whitefly Q biotype	Australia: No current concerns. Permit PER12221 Expiry date: 30/09/2027
PIRIMICARB	1A	Aphids	Australia: No current concerns. Codex MRL: 1 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: No current review USA: No registrations
POTASSIUM SALTS OF FATTY ACIDS		Permit PER13920 for the control of Glasshouse whitefly and Silverleaf whitefly	Australia: No current concerns. Permit PER13920 Expiry date: 31/12/2027 Canada: In review
PYRETHRINS	3A	Ants; Cabbage white butterfly; Caterpillars; Diamondback (Cabbage) moth; Earwig; Flies; Leafhoppers; Light brown apple moth; Mealybugs; Plague thrips; Rutherglen bug; Thrips	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Approved UK: Approved Canada: No current review
PYRIPROXYFEN	7C	Silverleaf whiteflies	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
SPINETORAM	5	Caterpillars; Cucumber moth; Helicoverpa; Western flower thrips; Vegetable leafminer Permit PER94451 for the control of Leaf miners	Australia: No current concerns. Permit PER94451 Expiry date: 31/07/2027 EU: Not approved UK: Withdrawn. Expiry date: 30/09/2024 Canada: In review
SPINOSAD	5	Cucumber moth; Helicoverpa; Western flower thrips. Permit PER94331 for the control of Leaf miners (Liriomyza spp.)	Australia: Reviewed in 2014. No current concerns. Permit PER94331 Expiry date: 30/04/2026 Codex MRL: 0.2 mg/Kg EU: Approved UK: Approved Canada: In review
SPIROTETRAMAT	23	Caterpillars; Cucumber moth; Helicoverpa; Western flower thrips; Vegetable leafminer	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved UK: Approved Canada: In review
SULFOXAFLOR	4C	Cotton / melon aphid; Green peach aphid; Greenhouse whitefly	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Approved UK: Approved Canada: No current review

Active Constituent	MoA Group	Pest	Risks and Comments
TEBUFENPYRAD	21A	European red mite; Two-spotted (Red spider) mite	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: No current review
TRICHLORFON	1B	Cutworms; Green vegetable bug; Rutherglen bug	Australia: APVMA nominated for reconsideration after 2029 Codex MRL: No MRLs EU: Not approved Canada: No current review USA: Review upcoming

FUNGICIDES – Disease Control

ACTIVE CONSTITUENT	MoA Group	Pest	Risks and Comments
AMETOCTRADIN + DIMETHOMORPH	45 + 40	Downy mildew	AMETOCTRADIN Australia: No current concerns. Codex MRL: 3 mg/Kg EU: Approved UK: Approved Canada: No current review DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved UK: Approved Canada: No current review
AUREOBASIDIUM PULLULANS	NC	Botrytis/Grey mould, Sclerotinia	Australia: No current concerns.
AZOXYSTROBIN	11	Downy mildew; Gummy stem blight; Powdery mildew	Australia: No current concerns. Codex MRL: 1 mg/Kg EU: Approved UK: Approved Canada: In review
BOSCALID KRESOXIM- METHYL	7 + 11	Powdery mildew	BOSCALID Australia: No current concerns. Codex MRL: 3 mg/Kg EU: Approved UK: Approved Canada: In review KRESOXIM-METHYL Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Approved UK: Approved Canada: No current review
BUPIRIMATE	8	Powdery mildew	Australia: No current concerns. EU: Approved UK: Approved

ACTIVE CONSTITUENT	MoA Group	Pest	Risks and Comments
CAPTAN	M4	Grey Mould	Australia: No current concerns. Permit PER14326 Expiry date: 31/03/2027 Codex MRL: Codex: Review scheduled 2025 EU: Approved UK: Approved Canada: No current review
CHLOROTHALONIL	M5	Alternaria leaf blight; Anthracnose; Downy mildew; Gummy stem blight; Powdery mildew; Rhizoctonia ground rot; Target leafspot. Permit PER82895 for the control of Grey Mould (<i>Botrytis cinerea</i>)	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. EU: Not approved Canada: In review USA: Review upcoming
COPPER	M1	Angular leaf spot; Anthracnose; Bacterial spot; Downy mildew; Gummy stem blight; Late (Irish) blight; Leaf diseases/spots; Powdery mildew; Rust; Septoria leaf spot; Target spot (Early blight)	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: No current review
CYFLUFENAMID	U6	Powdery mildew	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
DIMETHOMORPH	40	Alternaria leaf blight; Anthracnose; Downy mildew; Gummy stem blight; Septoria leaf spot	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved UK: Approved Canada: No current review
ETHANEDINITRILE		Damping off; Fungal diseases: Fusarium; Fungal diseases: Rhizoctonia; Fusarium wilt; Phytophthora trunk/collar rot; Rhizoctonia rot; Root and collar rot; Sclerotium crown rot; Spot blotch	Australia: No current concerns.
FENHEXAMID	17	Grey mould / Botrytis	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
FLUDIOXONIL CYPRODINIL	9 & 12	Grey mould (Botrytis cinerea)	Australia: No current concerns Fludioxonil - EU: Under review & candidate for substitution
GUAZATINE	M7	Fusarium fruit rot; Rhizopus rot	Australia: No current concerns. EU: Not approved
HYDROGEN PEROXIDE PEROXYACETIC ACID	М	Powdery mildew	Australia: No current concerns.
IODINE	М	Bactericide	Australia: No current concerns. Canada: No current review

ACTIVE CONSTITUENT	MoA Group	Pest	Risks and Comments
IPRODIONE	2	Permit PER81589 for the control of SCLEROTINIA ROT	Australia: No current concerns. Permit PER81589 Expiry date: 30/06/2026 Codex: MRL deleted EU: Not approved Canada: Most of the food crop uses deleted USA: Review upcoming
MANCOZEB	M3	Alternaria leaf blight; Anthracnose; Downy mildew. Permit PER14046 for the control of Grey mould / Botrytis	Australia: APVMA reconsideration Prioritised to be commenced by 2027. Permit PER14046 Expiry date: 31/01/2028 EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024 Canada: Most of uses cancelled USA: Review upcoming
METALAXYL	4	Phytophthora soil fungus (Dieback); Anthracnose; Damping off; Downy mildew; Gummy stem blight	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: In review
METIRAM	M3	Downy mildew; Gummy stem blight	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Approved Canada: No current review
METRAFENONE	50	Powdery mildew	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Approved UK: Approved Canada: No current review
OXADIXYL	4	Downy mildew	Australia: No current concerns. EU: Not approved
OXATHIAPIPROLIN	49	Downy mildew	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Approved UK: Approved Canada: No current review
PENTHIOPYRAD	7	Grey mould / Botrytis; Powdery mildew; Gummy stem blight	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Approved UK: Approved Canada: No current review
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Downy mildew	Australia: No current concerns.
POTASSIUM BICARBONATE	M2	Permit PER13695 for the control of Powdery mildew	Australia: No current concerns. Permit PER13695 Expiry date: 31/07/2025 Canada: In review

ACTIVE CONSTITUENT	MoA Group	Pest	Risks and Comments
PROPINEB	M3	Anthracnose; Downy mildew; Gummy stem blight	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Codex MRL: To be reviewed EU: Not approved
PROPAMOCARB HYDROCHLORIDE FLUOPICOLIDE	28 + 43	Downy mildew (Pseudoperonospora cubensis)	Australia: No current concerns. Fluopicolide - EU: Under review & candidate for substitution
PROQUINAZID	13	Powdery mildew	Australia: EU: Approved UK: Approved
PYDIFLUMETOFEN DIFENOCONAZOLE	7+3	Cercospora leaf spot, Early blight, Powdery mildew	PYDIFLUMETOFEN Australia: No current concerns. Codex MRL: 0.4 mg/Kg EU: Pending UK: Approved Canada: In review DIFENOCONAZOLE Australia: APVMA nominated for reconsideration Codex MRL: EU: Approved, candidate for substitution. UK: Approved Canada: In review
PYRIMETHANIL	9	Permit PER7909 for the control of Botrytis Rot	Australia: Permit PER7909 Expiry date: 30/09/2027 EU: Approved UK: Approved Canada: In review
PYRIOFENONE	50	Powdery mildew	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Approved UK: Approved Canada: No current review
STREPTOMYCES LYDICUS	BM02	Powdery mildew	Australia: No current concerns
SULFUR	M2	Anthracnose, Downy mildew, Rust, Septoria spot, Target spot (Early blight)	Australia: No current concerns.
TRIADIMEFON	3	Powdery mildew	Australia: APVMA nominated for reconsideration after 2029 Codex MRL: 0.2 mg/Kg EU: Not approved Canada: No current review
TRIFLOXYSTROBIN		Permit PER14050 for the control of Powdery mildew	Australia: No current concerns. Permit PER14050 Expiry date: 31/03/2028 Codex MRL: 0.3 mg/Kg EU: Approved UK: Approved Canada: In review

ACTIVE CONSTITUENT	MoA Group	Pest	Risks and Comments
TEA TREE (MELALEUCA) OIL	-	Powdery Mildew	Australia: No current concerns
ZINEB	M3	Anthracnose, downy mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: No current review

HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CLOMAZONE	13	Australia: No current concerns. EU: Approved UK: Approved Canada: In review
DIQUAT (Vegetables)	22	APVMA proposed decisions published July 2024. It is proposed to remove uses in cucumbers. Only uses 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).
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	APVMA nominated for reconsideration and for targeted spray drift reconsideration
GLYPHOSATE	9	Australia: APVMA nominated for reconsideration for targeted spray drift reconsideration EU: Approved UK: Approved Canada: No current review USA: Review upcoming
PARAQUAT (Vegetables)	22	APVMA proposed decisions July 2024. It is proposed to remove uses in cucumbers. Only uses up to 231gai/ha to be kept. Publication of the final regulatory decision is expected in December 2025 . Codex: 0.02 mg/Kg (2006) Fruiting vegetables, cucurbits (group) Canada: Not approved. EU and UK: Not approved (2007). USA: Restricted use (under 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: No current review

PLANT GROWTH REGULATORS – and others

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Postharvest treatment	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review

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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