

Apple Agrichemical Regulatory Risk Assessment

November 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 **apples** 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
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R0	Use no longer approved

Apple - Agrichemical Regulatory Risk Assessment

INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
(E,E) 8,10 DODECADIEN-1-OL	--	Codling moth	Australia: No current concerns.
(S)-METHOPRENE	7A	PER81094 and PER90213for the control of Red Imported Fire Ant	Australia: No current concerns. Permit PER81094 Expiry date: 31/05/2026 Permit PER90213 Expiry date: 30/06/2027
(Z)-8-DODECEN-1-YL ACETATE	--	Oriental fruit moth	Australia: No current concerns
1-DODECANOL	--	Codling moth Oriental fruit moth	Australia: No current concerns
3-METHYL-1-BUTANOL	--	Carpophilus beetles	Australia: No current concerns
ABAMECTIN	6	European red mite Two-spotted mites	Australia: APVMA nominated for reconsideration and spray drift assessment. Codex MRL: 0.01 mg/Kg Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
ABAMECTIN + CHLORANTRANILIPROLE	6 + 28	Codling moth European red mite Helicoverpa species (bollworm) Light brown apple moth Oriental fruit moth Two-spotted mites	ABAMECTIN Australia: APVMA nominated for reconsideration and spray drift assessment. Codex MRL: 0.01 mg/Kg Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July 2025) CHLORANTRANILIPROLE Australia: No current concerns. Codex MRL: 0.4 mg/Kg Canada: In re-evaluation
ACEQUINOCYL	20B	Two spotted mites	Australia: No current concerns.

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ACETAMIPRID + NOVALURON	4A + 15	Apple dimpling bug Codling moth Longtailed mealybug Woolly apple aphid Light brown apple moth Plague thrips San Jose scale Tuber mealybug	ACETAMIPRID Australia: APVMA: Currently under review . Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. Codex MRL: 0.8 mg/Kg Canada: In re-evaluation USA: Under Registration Review (scheduled) NOVALURON Australia: No current concerns. Codex MRL: 3 mg/Kg EU: Not approved Canada: In re-evaluation
ALPHA-CYPERMETHRIN	3A	Apple weevil Garden weevil	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved
<i>BACILLUS THURINGIENSIS</i>	11A	Caterpillars Helicoverpa species Light brown apple moth Loopers Pear looper	Australia: No current concerns. USA: Under Registration Review (scheduled)
BIFENAZATE	20D	Bryobia mite European red mite Two-spotted mites	Australia: No current concerns. Codex MRL: 0.7 mg/Kg Canada: In re-evaluation
BIFENTHRIN	3A	Apple dimpling bug (yellow mirid) Plague thrips	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved Canada: Cancelled

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CARBARYL	1A	Codling moth Helicoverpa species Light brown apple moth Pear and cherry slug Pear leaf blister mite Wingless grasshoppers	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CHLORANTRANILIPROLE	28	Codling moth Helicoverpa species Light brown apple moth Oriental fruit moth	Australia: No current concerns. Codex MRL: 0.4 mg/Kg Canada: In re-evaluation
CHLORPYRIFOS	1B	--	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.
CLOFENTEZINE	10A	Bryobia mite European red mite Two-spotted mites	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved
CLOTHIANIDIN	4A	Codling moth Fruit flies Longtailed mealybug Woolly apple aphid Tuber mealybug	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. Codex MRL: 0.4 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CYCLANILIPROLE	28	Codling moth Apple looper Light brown apple moth	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved

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CYDIA POMONELLA GRANULOSIS VIRUS		Codling moth Oriental fruit moth	Australia: No current concerns.
CYFLUMETOFEN	25A	Bryobia mite European red mite Two-spotted mite	Australia: No current concerns. Codex MRL: 0.4 mg/Kg
DIAZINON	1B	San Jose Scale, Woolly Aphid, Greedy Scale	Australia: APVMA made a Final Decision on 2024 . After 10 September 2025, crop uses are no longer approved. Codex: All MRLs deleted EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
DIMETHOATE	1B	PER13859 for the control of fruit fly	Australia: APVMA reconsideration. Prioritised to be commenced by 2029 . Permit PER13859 Expiry date: 31/05/2030 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
ETHYL FORMATE	8A	Eucalyptus weevil Latania scale Obscure mealybug Onion thrips	Australia: No current concerns. EU: Not approved
ETOXAZOLE	10B	Bryobia mite European red mite Two-spotted mites	Australia: No current concerns. Codex MRL: 0.07 mg/Kg EU: Approved, candidate for substitution.
POTASSIUM SALTS OF FATTY ACIDS	--	Aphids Mealybug Two-spotted mite Spider mites Thrips Whitefly	Australia: No current concerns. Canada: In re-evaluation

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FENBUTATIN OXIDE	12B	Bryobia mite European red mite Two-spotted mites	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 5 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
FENBUTATIN OXIDE HEXYTHIAZOX	12B + 10A	Two Spotted Mite European Red Mite	FENBUTATIN OXIDE Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 5 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled) HEXYTHIAZOX Australia: No current concerns. Codex MRL: 0.4 mg/Kg
FENITROTHION	1B	Spur-throated locust, Migratory locust Wingless Grasshopper, Australian Plague Locust	Australia: On 15 August 2025, the APVMA made its final decision, cancelling field uses in horticultural crops (Gazette No. 17) . A deemed one-year permit allows possession, supply, and use of products with previously approved labels Codex MRL: 0.5 mg/Kg EU: Not approved Canada: Cancelled USA: Agricultural uses cancelled (2017)
FENOXYCARB	7B	Codling moth Lightbrown apple moth San Jose scale	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).
FENPYROXIMATE	21A	European red mite Two-spotted mite	Australia: No current concerns. Codex MRL: 0.2 mg/Kg

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FIPRONIL	2B	Ants Fruit fly trap toxicant	Australia: APVMA: APVMA: Currently under review . Proposed Regulatory decision expected by April 2026. EU: Not approved USA: Under Registration Review (scheduled)
FLONICAMID	29	Tuber mealybug Woolly apple aphid European red mite Two-spotted mites	Australia: No current concerns. Codex MRL: 0.8 mg/Kg
IMIDACLOPRID	4A	Woolly apple aphid	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
INDOXACARB	22A	Apple weevil Codling moth Fuller's rose weevil Garden weevil Helicoverpa species Light brown apple moth Red imported fire ant Wingless grasshoppers	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved UK: Withdrawn (2024).
LAMBDA-CYHALOTHRIN	3A	Mediterranean fruit fly and Queensland fruit fly (PER12961 – SA biosecurity – soil drench)	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution.

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MALATHION	1B	Apple leafhopper European red mite Locusts Spider mites Thrips Two-spotted mites Wingless grasshoppers Woolly apple aphid Fruit flies Codling moth	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. Codex MRL: 0.5 mg/Kg UK: Withdrawn (2025). Canada: In re-evaluation USA: Under Registration Review (scheduled)
METHOMYL	1A	Apple dimpling bug (yellow mirid) Codling moth Helicoverpa species Light brown apple moth Plague thrips Thrips	Australia: APVMA reconsideration. Prioritised to be commenced by 2026 . Codex MRL: 0.3 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
METHOXYFENOZIDE	18	Light brown apple moth Loopers	Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
MILBEMECTIN	6	European red mite Two-spotted mites	Australia: No current concerns. UK: Withdrawn (2024).
NUCLEAR POLYHEDROSIS VIRUS OF <i>HELICOVERPA ARMIGERA</i>	--	<i>Helicoverpa armigera</i> <i>Helicoverpa punctigera</i>	Australia: No current concerns.
NUCLEAR POLYHEDROSIS VIRUS OF <i>HELICOVERPA ZEA</i>	--	<i>Helicoverpa armigera</i> <i>Helicoverpa punctigera</i> European red mite Woolly apple aphid	Australia: No current concerns.

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ORANGE OIL	--	Two spotted mite (<i>Tetranychus urticae</i>) Scale (<i>Coccoidea</i> spp.) Mealybug (<i>Pseudococcidae</i> spp.) Suppression: Onion thrips (<i>Thrips tabaci</i>) & Western flower thrips (<i>Frankliniella occidentalis</i>) Woolly apple aphid (<i>Eriosoma lanigerum</i>)	Australia: No current concerns.
PARAFFINIC OIL	UNM	Two-spotted mite Mites Spider mites Bryobia mite European red mite Frosted scale Oystershell scale, prune scale San Jose scale Scale insects Armoured (hard) scales Pear scale	Australia: No current concerns.
PIRIMICARB	1A	Woolly apple aphid	Australia: No current concerns. Codex MRL: 1 mg/Kg EU: Approved, candidate for substitution. Canada: Cancelled
PROPARGITE	12C	European red mite Mites Two-spotted mites	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. Codex MRL: 3 mg/Kg EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

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PYRETHRINS	3A	Fruitfly Rutherglen bug Spiders Aphids Apple leafhopper Caterpillars Codling moth Earwigs Plague thrips Thrips	Australia: No current concerns. USA: Under Registration Review (scheduled)
PYRIDABEN	21A	European red mite Two-spotted mites	Australia: No current concerns.
PYRIPROXYFEN	7C	PER87728 for the control of Red imported fire ants	Australia: No current concerns. Permit PER87728 Expiry date: 28/02/2026
SPINETORAM	5	Caterpillars Codling moth Helicoverpa species Light brown apple moth Loopers Oriental fruit moth Pear and cherry slug Wester flower thrips PER12590 for the control of Suppression only of: Queensland fruit fly Lesser Queensland fruit fly	Australia: No current concerns. Permit PER12590 Expiry date: 31/05/2029 Codex MRL: 0.05 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation

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SPINOSAD	5	Helicoverpa species Light brown apple moth Loopers Pera and cherry slug Wester flower thrips Fall armyworm (PER89870)	Australia: No current concerns. Codex MRL: 0.1 mg/Kg Canada: In re-evaluation
SPIROMESIFEN	23	Two-spotted mite	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
SPIROTETRAMAT	23	Longtailed mealybug San Jose scale Tuber mealybug Woolly apple aphid	Australia: No current concerns. Codex MRL: 0.7 mg/Kg EU: Not approved Canada: In re-evaluation
SULFOXAFLOX	4C	Apple dimpling bug (yellow mirid) Longtailed mealybug San Jose scale Tuber mealybug Woolly apple aphid	Australia: No current concerns. Codex MRL: 0.3 mg/Kg
SULFUR	UN	Bryobia mite European red mite Pear leaf blister mite San Jose scale	Australia: No current concerns.
TAU-FLUVALINATE	3A	Apple dimpling bug (yellow mirid) Plague thrips	Australia: No current concerns.
TEBUFENOZIDE	18	Codling moth Light brown apple moth	Australia: No current concerns. Codex MRL: 1 mg/Kg
TEBUFENPYRAD	21A	European red mite Two spotted mite	Australia: No current concerns. EU: Approved, candidate for substitution.

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TETRANILIPROLE	28	Apple weevil Codling moth Fuller's rose weevil Garden weevil Light brown apple moth	Australia: No current concerns. Codex MRL: 0.4 mg/Kg
THIACLOPRID	4A	Apple dimpling bug (yellow mirid) Codling moth Oriental fruit moth Woolly apple aphid PER14562 for the control of Mediterranean Fruit Fly	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. Permit PER14562 Expiry date: 31/05/2027 Codex MRL: 0.7 mg/Kg EU: Not approved Canada: In re-evaluation
TRICHLORFON	1B	Fruit flies Rutherglen bug	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

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FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
BOSCALID PYRACLOSTROBIN	7 + 11	Blackspot Powdery mildew Alternaria leaf blotch Alternaria fruit spot	BOSCALID Australia: No current concerns. Codex MRL: 2 mg/Kg Canada: In re-evaluation PYRACLOSTROBIN Australia: No current concerns. Codex MRL: 0.7 mg/Kg Canada: In re-evaluation
BUPIRIMATE	8	Powdery mildew	Australia: No current concerns.
CAPTAN	M4	Black spot	Australia: No current concerns. Codex MRL: 15 mg/Kg
COPPER	M1	Bitter rot Black spot Fly speck Ripe fruit rot Sooty blotch	Australia: No current concerns.
CYPROCONAZOLE IODOCARB	3 +28	Silver leaf	CYPROCONAZOLE Australia: APVMA nominated for reconsideration after 2029. EU: Not approved UK: Withdrawn (2024). IODOCARB Australia: No current concerns.

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CYPRODINIL	9	Black spot	Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
CYPRODINIL + FLUDIOXONIL	9 + 12	Alternaria leaf and fruit blotch (suppression)	CYPRODINIL Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation FLUDIOXONIL Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Approved, candidate for substitution.
DIFENOCONAZOLE	3	Black spot Powdery mildew	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 4 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
DIPHENYLAMINE	--	Superficial scald	Australia: No current concerns. Codex MRL: 10 mg/Kg EU: Not approved Canada: In re-evaluation
DITHIANON	M9	Alternaria leaf blotch / fruit spot Bitter rot Black spot	Australia: No current concerns. Codex MRL: 1 mg/Kg
DODINE	U12	Black spot	Australia: No current concerns. Codex MRL: 5 mg/Kg Canada: In re-evaluation

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FLUAZINAM	29	White root rot	Australia: No current concerns. Canada: In re-evaluation
FLUDIOXONIL	12	Blue mould Grey mould	Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Approved, candidate for substitution.
FLUOPYRAM + TRIFLOXYSTROBIN	7 + 11	Black spot Powdery mildew Alternaria leaf blotch / fruit spot	FLUOPYRAM Australia: No current concerns. Codex MRL: 0.5 mg/Kg TRIFLOXYSTROBIN Australia: No current concerns. Codex MRL: 0.7 mg/Kg Canada: In re-evaluation
FLUXAPYROXAD	7	Alternaria leaf blotch / fruit spot Black spot Powdery mildew	Australia: No current concerns. Codex MRL: 0.9 mg/Kg
FOSETYL-ALUMINIUM	P07 (33)	Phytophthora trunk / collar rot	Australia: APVMA nominated for reconsideration after 2029.
HEXACONAZOLE	3	Black spot, Scab (Venturia inaequalis) Powdery mildew (Podosphaeria leucotricha)	Australia: No current concerns. EU: Not approved Canada: Cancelled
IMAZALIL	3	Blue mould	Australia: No current concerns.
IODINE	M	Bactericide / fungicide (Postharvest)	Australia: No current concerns. Canada: Cancelled

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IPRODIONE	2	Blue and green moulds Blue mould Botrytis blight Ripe fruit rot Storage rot	Australia: No current concerns. EU: Not approved USA: Under Registration Review (scheduled)
ISOPYRAZAM	7	Black spot Powdery mildew	Australia: No current concerns. Codex MRL: 0.4 mg/Kg EU: Not approved
KRESOXIM-METHYL	11	Black spot Powdery mildew	Australia: No current concerns. Codex MRL: 0.15 mg/Kg
MANCOZEB	M3	Bitter rot Black spot Fly speck Powdery mildew Ripe fruit rot Sooty blotch Target spot (early blight)	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)
MEFENTRIFLUCONAZOLE	3	Alternaria leaf blotch / fruit spot Black spot Powdery mildew	Australia: No current concerns. Codex MRL: 1.5 mg/Kg Canada: In re-evaluation
METIRAM	M3	Bitter rot Black spot Fly speck Ripe fruit rot Sooty blotch PER12864 for the control of Alternaria	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER12864 Expiry date: 30/06/2026 EU: Not approved Canada: Only approved for foliar applications in potato crops.

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MYCLOBUTANIL	3	Black spot Powdery mildew	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.6 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
ORANGE OIL	--	<i>Powdery mildew (Podosphaera leucotricha)</i>	Australia: No current concerns.
PENCONAZOLE	3	Black spot Powdery mildew	Australia: No current concerns. Codex MRL: 0.1 mg/Kg
PENTHIOPYRAD	7	Black spot Powdery mildew	Australia: No current concerns. Codex MRL: 0.4 mg/Kg
PETROLEUM OIL	--	Powdery mildew	Australia: No current concerns. EU: Not approved
POLYOXIN D ZINC SALT	19	Alternaria leaf blotch / fruit spot Powdery mildew	Australia: No current concerns.
POTASSIUM BICARBONATE	M2	Powdery mildew	Australia: No current concerns. Canada: In re-evaluation
PROQUINAZID	13	Powdery mildew	Australia: No current concerns.
PYRIMETHANIL	9	Blue mould Grey mould Ripe fruit rot	Australia: No current concerns. Codex MRL: 15 mg/Kg Canada: In re-evaluation
QUINTOZONE	14	Collar rot	Australia: No current concerns. EU: Not approved
SULFUR	M2	Black spot Powdery mildew	Australia: No current concerns.

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TEBUCONAZOLE	3	Silver leaf	Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 1 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
THIABENDAZOLE	1	Blue mould Grey mould Ripe fruit rot	Australia: No current concerns. Codex MRL: 3 mg/Kg
THIRAM	M3	Black spot Ripe fruit rot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for seed treatment.
TRIFLOXYSTROBIN	11	Black spot Powdery mildew	Australia: No current concerns. Codex MRL: 0.7 mg/Kg Canada: In re-evaluation
TRIFORINE	3	Black spot Powdery mildew	Australia: No current concerns. EU: Not approved
ZINEB	M3	Bitter rot Black spot Sooty blotch	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled
ZIRAM	M3	Bitter rot Black spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Approved, candidate for substitution. UK: Withdrawn (2024). Canada: Cancelled

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HERBICIDES – Weed Control

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2,2-DPA PRESENT AS THE SODIUM SALT	0	Australia: No current concerns. EU: Not approved
AMITROLE	34	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.05 mg/Kg Canada: Cancelled
ASULAM	18	Australia: No current concerns EU: Not approved Canada: Cancelled
CARFENTRAZONE-ETHYL	14	Australia: No current concerns. Canada: In re-evaluation
CLETHODIM	1	Australia: No current concerns.
DICHLOROBENIL	29	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
DIQUAT	22	Australia: APVMA: Currently under review. Publication of the final regulatory decision is expected in December 2025. Codex MRL: 0.02 mg/Kg EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
FLUAZIFOP-P		Australia: No current concerns
FLUMIOXAZIN	14	Australia: No current concerns. Codex MRL: 0.02 mg/Kg Canada: In re-evaluation

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
R0	Use no longer approved

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Active Constituent	MoA Group	Risks and Comments
GLUFOSINATE-AMMONIUM	10	Australia: APVMA Nominated for targeted spray drift reconsideration Codex MRL: 0.1 mg/Kg EU: Not approved Canada: In re-evaluation
GLYPHOSATE	9	Australia: APVMA Nominated for targeted spray drift reconsideration USA: Under Registration Review (scheduled)
HALOXYFOP	1	Australia: No current concerns. Codex MRL: 0.02 mg/Kg EU: Not approved
ISOXABEN	29	Australia: No current concerns.
NORFLURAZON	12	Australia: No current concerns. EU: Not approved
ORYZALIN	3	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).
OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)
PARAQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is expected in December 2025. Candidate chemical recommended to be listed to Rotterdam Convention. Codex MRL: 0.01 mg/Kg EU: Not approved Canada: Cancelled USA: Restricted use

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
R0	Use no longer approved

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Active Constituent	MoA Group	Risks and Comments
SAFLUFENACIL	14	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved
SIMAZINE	5	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved
TERBACIL	5	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
TRIFLURALIN	3	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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
R0	Use no longer approved

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FUMIGANTS – Mixed Function

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

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
R0	Use no longer approved

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PLANT REGULATORS AND OTHERS – Plant regulators, post-harvest treatments, rodenticides and others.

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Improve fruit quality post-harvest.	Australia: No current concerns
6-BENZYLADENINE	Reducing fruit set, increasing fruit size and improving firmness of harvested apples.	Australia: No current concerns
AMMONIUM THIOSULPHATE	Desiccation of blossoms and reduction of fruit set.	Australia: No current concerns
AMINOETHOXYVINYLGLYCINE	Manage maturation in the orchard and increase fruit size and storage potential.	Australia: No current concerns. EU: Not approved
CARBARYL	Fruit thinning	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CYANAMIDE	Regulation of bud break.	Australia: No current concerns. EU: Not approved Canada: Cancelled
ETHEPHON	Advancement of maturity, improvement of red colour, thinning, loosening, retard vegetative growth and stimulate flowering in following season.	Australia: No current concerns Codex MRL: 0.8 mg/Kg
GIBBERELLINS	For the improvement of fruit shape and increase in fruit size.	Australia: No current concerns
METAMITRON	Fruit thinning	Australia: No current concerns.
NAPHTHYLACETIC ACID = NAA	Fruit thinning and controlling fruit drop.	Australia: No current concerns

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
R0	Use no longer approved

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Active Constituent	Use	Risks and Comments
PACLOBUTRAZOL	Reduce vegetative growth.	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: In re-evaluation
PROHEXADIONE-CALCIUM	Reduction of shoot growth.	Australia: No current concerns Canada: In re-evaluation
CHLORINE (CALCIUM / SODIUM HYPOCHLORITE)	PER10822 for the control of Various insect and fungal pests	Permit PER10822 Expiry date: 30/11/2025

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