

Apple 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 with changed data requirements. A consequence of which can be that many agrichemicals are not meeting contemporary risk assessment standards as the necessary data is unavailable, or where data is available, the refined 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 an 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** as well as assisting with any current initiatives aimed at identifying and addressing identified 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

INSECTS AND OTHER PESTS

Active constituent	MoA group	Insects and other pests	Risks & Comments
(e,e) 8,10 dodecadien-1-ol	-	Codling moth	Pheromone – no concerns
(Z)-8-dodecen-1-yl acetate e-8-dodecen-1-yl acetate z-8-dodecen-1-ol	-	Oriental fruit moth	Pheromone – no concerns
1-dodecanol (e,e) 8,10 dodecadien-1-ol tetradecanol	-	Codling moth	Pheromone – no concerns
1-dodecanol (e,e) 8,10 dodecadien-1-ol dodecenol acetate - 8 z dodecenyl acetate - 8 z dodecenyl acetate - 8 z tetradecan-1-ol	•	Oriental fruit moth Codling moth	Pheromone – no concerns
3-methyl-1-butanol 2-methyl-1-butanol ethyl acetate acetaldehyde sec butanol ethanol carpophilus aggregation pheromones	-	Carpophilus beetles	Pheromone – no concerns
4-(P-acetoxyphenyl)-2- butanone + malathion	1B	Male Queensland fruit fly	Malathion: 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. Canada: In review. USA: Upcoming review.
Abamectin	6	European red mite	Australia: APVMA nominated for reconsideration and spray drift assessment.

		Two snotted mites	EU: Approved.
		Two-spotted mites	Canada: In review.
A1	6 - 20	0 11:	Codex: Pome fruit MRL set at 0.01 mg/kg (2016).
Abamectin +	6 + 28	Codling moth	Abamectin: Australia: APVMA nominated for reconsideration and spray drift
chlorantraniliprole		European red mite	assessment.
		Helicoverpa species (bollworm)	EU: Approved.
		Light brown apple moth	Canada: In review.
		Oriental fruit moth	Codex: Pome fruit MRL set at 0.01 mg/kg (2016).
		Two-spotted mites	Chlorantraniliprole: Australia: No current concerns.
			EU: Approved.
			UK: Approved.
			Canada: In review.
Acequinocyl	20B	Two spotted mites	EU: Approved.
Acetamiprid + novaluron	4A + 15	Apple dimpling bug (yellow mirid)	Acetamiprid: Australia: APVMA: <u>Currently under review</u> . Proposed regulatory
		Codling moth	decisions expected between Dec. 2025 to Oct. 2026.
		Longtailed mealybug	EU: Approved.
		Woolly apple aphid	UK: Approved.
		Light brown apple moth	Canada: In review.
		Plague thrips	USA: Upcoming review.
		San Jose scale	Codex: Pome fruit MRL set at 0.8 mg/kg (2012).
		Tuber mealybug	Novaluron: EU: Not approved.
			Canada: In review.
Alpha-cypermethrin	3A	Apple weevil	Australia: APVMA nominated for reconsideration.
		Garden weevil	Canada: No current review.
Bacillus thuringiensis	11A	Caterpillars	
		Helicoverpa species	
		Light brown apple moth	
		Loopers	
		Pear looper	
Bifenazate	20D	Bryobia mite	EU: Approved.
		European red mite	UK: Approved.
		Two-spotted mites	Canada: In review.
			Codex: Pome fruit MRL set at 0.7 mg/kg (2007).
Bifenthrin	3A	Apple dimpling bug (yellow mirid)	Australia: APVMA nominated for reconsideration.
		Plague thrips	EU: Not approved.
			Canada: No current review.
			Canada Court cite for form

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 review. USA: Upcoming review. Label changes expected. Codex: No MRLs for pome fruit.
Chlorantraniliprole	28	Colding moth Helicoverpa species Light brown apple moth Oriental fruit moth	Australia: No current concerns. EU: Approved. UK: Approved. Canada: In review. Codex: Pome fruit MRL set at 0.4 mg/kg (2009).
Chlorpyrifos	1 B	Apple dimpling bug, light brown apple moth, mealybug, Queensland fruit fly, San Jose' scale, wingless grasshopper, woolly aphid (label) Locusts (PER11843 – EXPIRED)	PER11843 expired 31/07/2024. Australia: The APVMA issued a final decision in September 2024. Uses in pome fruit were cancelled. Products with previously approved labels should not be possessed or used after September 30, 2025. The final decision was published in the APVMA Official Gazette on October 3, 2024. EU: Not approved. Canada: In review. USA: Upcoming review. Codex: MRLs revoked.
Clofentezine	10A	Bryobia mite European red mite Two-spotted mites	Australia: No current concerns. EU: Not approved. UK: Approved. Canada: No current review. Codex: Pome fruit MRL set at 0.5 mg/kg (2008).
Clothianidin	4A	Codling moth Fruit flies Longtailed mealybug Woolly apple aphid Tuber mealybug	Australia: APVMA: <u>Currently under review</u> . Proposed regulatory decisions expected between Dec. 2025 to Oct. 2026. EU: Not approved. Canada: In review. USA: Upcoming review. Codex: Pome fruit MRL set at 0.4 mg/kg (2012).
Cyclaniliprole	28	Codling moth Apple looper Light brown apple moth	Codex: Pome fruit MRL set at 0.2 mg/kg (2021).
Cydia pomonella granulosis virus	31	Codling moth Oriental fruit moth	

Cyflumetofen	25A	Bryobia mite	EU: Approved.
·		European red mite	UK: Approved.
		Two-spotted mite	Canada: No current review.
			Codex: Pome fruit MRL set at 0.4 mg/kg (2015).
Deltamethrin + MagMED	3	Medfly (PER92548-WA only)	PER92548 expires 30/09/2025.
			Australia: Completed.
			EU: Approved.
			UK: Approved.
			Canada: No current review.
Diazinon	1B	San Jose Scale, Woolly Aphid, Greedy	Australia: Australia: APVMA made a Final Decision on 10 September 2024.
		Scale	Agricultural uses were not supported during the review. Approved use on all
			fruit ceases on 10 September 2025.
			Codex: All MRLs deleted.
			EU: Not approved.
			Canada: No current review.
			USA: Upcoming review.
Dimethoate	1B	Fruit flies (PER13859 – after harvest	PER13859 expires 31/05/2030.
		orchard clean-up spray)	Australia: APVMA reconsideration. Prioritised to be commenced by 2029.
			EU: Not approved.
			Canada: In review.
			USA: Upcoming review.
E,E-9,11-tetradecadien-1-yl	-	Light brown apple moth	Pheromone – no concerns
acetate E-11-tetradecen-1-yl			
acetate			
E-11-tetradecenyl acetate	-	Light brown apple moth	Pheromone – no concerns
E,E-9,11-tetradecadien-1-yl			
acetate			
Ethyl formate (Po)	8A	Eucalyptus weevil	Australia: APVMA: no current concerns.
		Latania scale	EU: Not approved.
		Obscure mealybug	
		Onion thrips	
Etoxazole	10B	Bryobia mite	Australia: No current concerns.
		European red mite	EU: Approved, candidate for substitution.
		Two-spotted mites	UK: Approved.
			Canada: No current review.
			Codex: Pome fruit MRL set at 0.07 mg/kg (2012).

Fatty acids – K salt	-	Aphids	Australia: No current concerns.
·		Mealybug	Canada: In review.
		Two-spotted mite	
		Spider mites	
		Thrips	
		Whitefly	
Fenbutatin oxide	12B	Bryobia mite	Australia: APVMA nominated for reconsideration.
		European red mite	EU: Not approved.
		Two-spotted mites	Canada: In review.
			USA: Upcoming review.
			Codex: Pome fruit MRL set at 5 mg/kg (1995). To be reviewed by JMPR.
Fenitrothion	1B	Spur-throated locust, Migratory	Australia: <u>APVMA: Review</u> – proposed decisions published 9 April 2024.
		locust Wingless Grasshopper,	All uses in apples to be cancelled. Final review decision is expected in
		Australian Plague Locust	2025.
			EU: Not approved.
			Canada: No current review.
			Codex: MRL set at 0.5 mg/kg (2008).
Fenoxycarb	7B	Codling moth	EU: Not approved.
		Lighbrown apple moth	UK: Withdrawn.
		San Jose scale	
Fenpyroximate	21A	European red mite	EU: Approved. UK: Approved.
		Two-spotted mite	Canada: No current review.
			Codex: MRL set at 0.2 mg/kg (2018).
Fipronil	2B	Ants	Australia: APVMA: Currently under review. Proposed regulatory decision
		Fruit fly trap toxicant	expected by April 2026.
			EU: Not approved.
			USA: Upcoming review.
Floring	20	Toda on one a believe	Codex: Re-evaluation underway.
Flonicamid	29	Tuber mealybug	Canada: No current review. Codex: Pome fruit MRL set at 0.8 mg/kg (2017).
Ham this are	400	Woolly apple aphid	
Hexythiazox	10A	European red mite	EU: Approved. UK: Approved.
		Two-spotted mites	Canada: No current review.
Imidacloprid	40	Woolly apple aphid	Codex: Pome fruit MRL set at 0.4 mg/kg (2010). Australia: APVMA: Currently under review. Proposed regulatory decisions
ппиасторпи	4A	woony apple aprilu	expected between Dec. 2025 to Oct. 2026.
			expected between Dec. 2025 to Oct. 2026.

			EU: Not approved.
			Canada: No current review.
			USA: Upcoming review.
			Codex: MRL set at 0.5 mg/kg (2004).
Indoxacarb	22A	Apple weevil	EU: Not approved.
		Codling moth	UK: Withdrawn.
		Fuller's rose weevil	Codex: MRL set at 0.5 mg/kg (2006).
		Garden weevil	
		Helicoverpa species	
		Light brown apple moth	
		Red imported fire ant	
		Wingless grasshoppers	
Lambda-cyhalothrin	3A	Mediterranean fruit fly and Queensland	PER12961 expires 31/03/2030.
		fruit fly (PER12961 – SA biosecurity –	Australia: No current concerns.
		soil drench)	EU: Approved, candidate for substitution.
			UK: Approved.
			Canada: No current review.
Malathion	1B	Apple leafhopper	Australia: The <u>final regulatory decision</u> was published in an APVMA Special
		European red mite	Gazette on 2 May 2024. Labels containing malathion as an active constituent
		Locusts	have been varied. Products bearing previously approved labels must not be
		Spider mites	supplied after 1 May 2026.
		Thrips	EU: Approved.
		Two-spotted mites	UK: Withdrawn.
		Wingless grasshoppers	Canada: In review.
		Woolly apple aphid	USA: Upcoming review.
		Fruit flies	Codex: MRL set at 0.5 mg/kg (2006). Review underway.
		Codling moth	
Methomyl	1A	Apple dimpling bug (yellow mirid)	Australia: APVMA reconsideration. Prioritised to be commenced by 2026.
		Codling moth	EU: Not approved.
		Helicoverpa species	Canada: In review.
		Light brown apple moth	USA: Upcoming review.
		Plague thrips	Codex: MRL set at 0.3 mg/kg (2010).
		Thrips	
Methoxyfenozide	18	Light brown apple moth	EU: Approved, candidate for substitution.
,			UK: Approved.
		Loopers	ok. Approved.

			Codex: Pome fruit MRL set at 2 mg/kg (2005).
Milbemectin	6	European red mite	EU: Approved.
		Two-spotted mites	UK: Withdrawn.
Nuclear polyhedrosis virus of	-	Helicoverpa armigera	Australia: No current concerns.
Helicoverpa armigera		Helicoverpa punctigera	EU: Approved.
Nuclear polyhedrosis virus of	-	Helicoverpa armigera	Australia: No current concerns.
Helicoverpa zea		Helicoverpa punctigera	
		European red mite	
		Woolly apple aphid	
Paraffinic oil / petroleum oil	UNM	Two-spotted mite	Australia: No current concerns.
		Mites	
		Spider mites	
		Bryobia mite	
		European red mite	
		Frosted scale	
		Oystershell scale, prune scale	
		San Jose scale	
		Scale insects	
		Armoured (hard) scales	
		Pear scale	
Pirimicarb	1A	Woolly apple aphid	Australia: No current concerns.
			EU: Approved, candidate for substitution.
			UK: Approved.
			Canada: No current review.
			USA: No registrations.
			Codex: Pome fruit MRL set at 1 mg/kg (2007). JMPR periodic re-evaluation
Dona a weit a	420	Francisco and with	scheduled for 2025.
Propargite	12C	European red mite	Australia: <u>APVMA reconsideration</u> . Prioritised to be commenced by 2029. EU: Not approved.
		Mites	Canada: No current review.
		Two-spotted mites	USA: Upcoming review.
Pyrethrins	3A	Ants	Australia: No current concerns.
r yrediiiiis	5A	Aphids	EU: Approved.
		Apple leafhopper	UK: Approved.
		Apple lealiloppel	On Approved.

		Caterpillars	Canada: No current review.
		Codling moth	
		Earwigs	
		Plague thrips	
		Thrips	
Pyridaben	21A	European red mite	Australia: No current concerns.
		Two-spotted mites	EU: Approved.
		·	UK: Approved.
			Canada: No current review.
Pyriproxyfen	7C	Red imported fire ant (PER87728)	PER87728 expires 28/02/2026.
S-methoprene	7A	Red imported fire ant (PER81094 & PER90213)	PER81094 expires 31/05/2026, PER90213 expires 30/06/2027.
Spinetoram	5	Caterpillars	PER12590 expires 31/05/2029.
		Codling moth	Australia: No current concerns.
		Helicoverpa species	EU: Not approved.
		Light brown apple moth	UK: Withdrawn.
		Loopers	Canada: In review.
		Oriental fruit moth	Codex: Pome fruit MRL set at 0.05 mg/kg (2009).
		Pear and cherry slug	
		Wester flower thrips	
		Fruit flies (PER12590)	
Spinosad	5	Helicoverpa species	PER80719 expires 31/03/2028.
		Light brown apple moth	PER89870 expires 31/07/2025.
		Loopers	Australia: Reviewed in 2014. No current concerns.
		Pera and cherry slug	EU: Approved.
		Wester flower thrips	UK: Approved.
		Fruit flies (PER80719 – lures bait spray)	Canada: In review.
		Fall armyworm (PER89870)	Codex: MRL set at 0.1 mg/kg (2004).
Spirotetramat	23	Longtailed mealybug	Australia: No current concerns.
		San Jose scale	EU: Not approved.
		Tuber mealybug	UK: Approved.
		Woolly apple aphid	Canada: In review.
			Codex: Pome fruit MRL set at 0.7 mg/kg (2009).
Sulfoxaflor	4C	Apple dimpling bug (yellow mirid)	Australia: No current concerns.
		Longtailed mealybug	EU: Approved.
		San Jose scale	UK: Approved.

		Tuber mealybug	Canada: No current review.
		Woolly apple aphid	Codex: Pome fruit MRL set at 0.3 mg/kg (2015).
Sulfur	UN	Bryobia mite	Australia: No current concerns.
		European red mite	
		Pear leaf blister mite	
		San Jose scale	
Tau-fluvalinate	3A	Apple dimpling bug (yellow mirid)	EU: Approved.
		Plague thrips	UK: Approved.
Tebufenozide	18	Codling moth	EU: Approved.
		Light brown apple moth	UK: Approved.
			Canada: No current review.
			Codex: Pome fruit MRL set at 1 mg/kg (1999).
Tebufenpyrad	21A	European red mite	EU: Approved, candidate for substitution.
		Two spotted mite	UK: Approved.
			Canada: No current review.
Tetraniliprole	28	Apple weevil	Australia: No current concerns.
		Codling moth	Canada: No current review.
		Fuller's rose weevil	Codex: Pome fruit MRL set at 0.4 mg/kg (2023).
		Garden weevil	
		Light brown apple moth	
Thiacloprid	4A	Apple dimpling bug (yellow mirid)	PER14562 expires 31/05/2027.
		Codling moth	Australia: APVMA: Currently under review. Proposed regulatory decisions
		Oriental fruit moth	expected between Dec. 2025 to Oct. 2026.
		Woolly apple aphid	EU: Not approved.
		Mediterranean fruit fly (PER14562)	Canada: In review.
			Codex: Pome fruit MRL set at 0.7 mg/kg (2007).
Trichlorfon	1B	Fruit flies	Australia: APVMA nominated for reconsideration.
		Rutherglen bug	EU: Not approved.
			Canada: No current review.
			USA: Upcoming review.

DISEASES

Active constituent	MoA Group	Disease	Risks & Comments
BCDMH	-	Surface sterilization	
(Bromochlorodimethylhydantoin)			
Boscalid + pyraclostrobin	7 + 11	Alternaria leaf blotch/fruit spot	Boscalid: Australia: No current concerns.
		Black spot	EU: Approved.
		Powdery mildew	UK: Approved.
			Canada: In review.
			Codex: Pome fruit MRL set at 2 mg/kg (2021).
			Pyraclostrobin: EU: Approved.
			UK: Approved.
			Canada: In review.
Bupirimate	8	Powdery mildew	EU: Approved.
			UK: Approved.
Captan	M4	Black spot	EU: Approved.
			UK: Approved.
			Canada: No current review.
			Codex: Pome fruit MRL set at 15 mg/kg (2008). Scheduled for
			review in 2025.
Chlorine (calcium / sodium	M	Surface diseases and pests – post	PER10822 expires 30/11/2025.
hypochlorite)		harvest (PER10822)	
Copper	M1	Bitter rot	Australia: No current concerns.
		Black spot	
		Fly speck	
		Ripe fruit rot	
		Sooty blotch	
Cyproconazole + iodocarb	3 + 28	Silver leaf	Cyproconazole: Australia: APVMA nominated for reconsideration
			EU: Not approved.
			UK: Withdrawn.
			lodocarb: Australia: No current concerns
Cyprodinil	9	Black spot	Australia: No current concerns.
			EU: Approved, candidate for substitution.
			UK: Approved.
			Canada: In review.
Constantini o flordinosani	0 + 12	Alternation look and finite black-b	Codex: Pome fruit MRL set at 2 mg/kg (2014).
Cyprodinil + fludioxonil	9 + 12	Alternaria leaf and fruit blotch	Cyprodinil: Australia: No current concerns.

		(suppression)	EU: Approved, candidate for substitution. UK: Approved. Canada: In review. Codex: Pome fruit MRL set at 2 mg/kg (2014). Fludioxonil: Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: No current review.
DPA (diphenylamine)	-	Superficial scald	EU: Not approved. Canada: In review. Codex: MRL set at 10 mg/kg (2003).
Difenoconazole	3	Powdery mildew	Australia: APVMA nominated for reconsideration after 2029. EU: Approved, candidate for substitution. UK: Approved. Canada: In review. Codex: Pome fruit MRL set at 4 mg/kg (2018).
Dithianon	M9	Alternaria leaf blotch / fruit spot Bitter rot Black spot	EU: Approved. UK: Approved. Canada: No current review. Codex: Pome fruit MRL set at 1 mg/kg (2014).
Dodine	U12	Black spot	EU: Approved. UK: Approved. Canada: In review. Codex: Pome fruit MRL set at 5 mg/kg (2005).
Fluazinam	29	White root rot	EU: Approved. UK: Approved. Canada: In review.
Fludioxonil	12	Blue mould Grey mould	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved. Canada: No current review.
Fluopyram + trifloxystrobin	7+11	Powdery mildew Alternaria leaf blotch / fruit spot	Fluopyram: EU: Approved. UK: Approved. Canada: No current review. Codex: Pome fruit MRL set at 0.5 mg/kg (2013). Trifloxystrobin: Australia: No current concerns. EU: Approved.

			UK: Approved.
			Canada: In review.
Fluxapyroxad	7	Alternaria leaf blotch / fruit spot	EU: Approved.
		Black spot	UK: Approved.
		Powdery mildew	Canada: No current review.
			Codex: Pome fruit MRL set at 0.9 mg/kg (2013).
Fosetyl-Aluminium	33	Phytophthora trunk / collar rot	Codex: Pome fruit MRL set at 50 mg/kg (2018).
Hexaconazole	3	Black spot, Scab (Venturia inaequalis)	Australia: No current concerns.
		Powdery mildew (<i>Podosphaeria</i>	EU: Not approved. Not permitted for use on food or feed crops in
		leucotricha)	EU member states as of 2025. Proposed addition to Rotterdam
			Convention's Prior Informed Consent (PIC) procedure
			Canada: No current review.
Imazalil	3	Blue mould	
Iodine (post-harvest)	M	Bactericide / fungicide	Australia: No current concerns.
			Canada: No current review.
Iprodione	2	Blue and green moulds	Australia: No current concerns.
		Blue mould	EU: Not approved. Not renewed due to concerns over toxicity and
		Botrytis blight	potential endocrine-disrupting effects. MRLs are set at or near the
		Ripe fruit rot	limit of detection.
		Storage rot	Canada: Several food crop uses deleted.
			USA: Upcoming review.
			Codex: Review scheduled.
Isopyrazam	7	Black spot	Codex: Pome fruit MRL set at 0.4 mg/kg (2018).
		Powdery mildew	EU: no longer approved in the EU due to its classification as
			carcinogenic and toxic for reproduction
Kresoxim-methyl	11	Black spot	EU: Approved.
		Powdery mildew	UK: Approved.
			Canada: No current review.
			Codex: Pome fruit MRL set at 0.15 mg/kg (2021).
Mancozeb	M3	Bitter rot	Australia: APVMA reconsideration. Prioritised to be commenced by
		Black spot	2027.
		Fly speck	EU: Not approved.
		Powdery mildew	UK: Withdrawn.
		Ripe fruit rot	Canada: No current review.
		Sooty blotch	USA: Upcoming review.
		Target spot (early blight)	Codex: Pome fruit MRL set at 5 mg/kg (2005). Periodic review by
			JMPR starting in 2025.

Mefentrifluconazole	3	Alternaria leaf blotch / fruit spot	EU: Approved.
		Black spot	UK: Approved.
		Powdery mildew	Canada: In review.
		,	Codex: Pome fruit MRL set at 1.5 mg/kg (2023).
Metiram	M3	Alternaria leaf blotch / fruit spot	PER12864 expires 30/06/2026.
		(PER12864)	Australia: APVMA reconsideration. Prioritised to be commenced by
		Bitter rot	2027.
		Black spot	EU: Not approved.
		Fly speck	UK: Approved.
		Ripe fruit rot	Canada: No current review.
		Sooty blotch	Codex: Pome fruit MRL set at 5 mg/kg (2005). Periodic review by
		,	JMPR starting in 2025.
Myclobutanil	3	Black spot	Australia: APVMA nominated for reconsideration.
		Powdery mildew	EU: Not approved.
			UK: Withdrawn.
			Canada: In review.
			Codex: Pome fruit MRL set at 0.6 mg/kg (2015).
Penconazole	3	Black spot	Australia: Removed from APVMA Chemical Review priority.
		Powdery mildew	Canada: No current review.EU: Approved.
			UK: Approved.
			Codex: MRL set at 0.1 mg/kg (2017).
Penthiopyrad	7	Black spot	Australia: No current concerns.
		Powdery mildew	EU: Approved.
			UK: Approved.
			Canada: No current review.
			Codex: Pome fruit MRL set at 0.4 mg/kg (2014).
Petroleum oil	-	Powdery mildew	Australia: No current concerns.
Polyoxin-D zinc salt	19	Alternaria leaf blotch / fruit spot	Canada: No current review.
		Powdery mildew	
Potassium bicarbonate	M2	Powdery mildew	Australia: No current concerns.
			Canada: In review.
Proquinazid	13	Powdery mildew	EU: Approved.
			UK: Approved.
Pyrimethanil	9	Blue mould	EU: Approved.
		Grey mould	UK: Approved.
		Ripe fruit rot	Canada: In review.
			Codex: Pome fruit MRL set at 15 mg/kg (2014).

Quintozene	14	Collar rot	EU: Not approved.
			Canada: No current review.
			Codex: Re-evaluation.
Sulfur	M2	Black spot	Australia: No current concerns.
		Powdery mildew	
Tebuconazole	3	Silver leaf	Australia: APVMA: Removed from nomination list - maintain
			watching brief.
			EU: Approved, candidate for substitution.
			UK: Approved.
			Canada: In review.
			USA: Upcoming review.
			Codex: MRL set at 1 mg/kg (2012).
Thiabendazole	1	Blue mould	EU: Approved.
		Grey mould	UK: Approved.
		Ripe fruit rot	Canada: No current review.
		·	Codex: Pome fruit MRL set at 3 mg/kg (2003).
Thiram	M3	Black spot	Australia: APVMA reconsideration. Prioritised to be commenced by
		Ripe fruit rot	2027.
			EU: Not approved.
			Canada: No current review.
			Codex: Pome fruit MRL set at 5 mg/kg (2005). Periodic review by
			JMPR starting in 2025.
Trifloxystrobin	11	Black spot	Australia: No current concerns.
		Powdery mildew	EU: Approved.
			UK: Approved.
			Canada: In review.
			Codex: Pome fruit MRL set at 0.7 mg/kg (2006).
Triforine	3	Black spot	Australia: Completed.
		Powdery mildew	EU: Not approved.
			Canada: No current review.
Zineb	M3	Bitter rot	Australia: APVMA reconsideration. Prioritised to be commenced by
		Black spot	2027.
		Sooty blotch	EU: Not approved.
			Canada: No current review.
			Codex Pome fruit MRL set at 5 mg/kg (2005). Periodic review by
			JMPR starting in 2025.
Ziram		Bitter rot	Australia: APVMA reconsideration. Prioritised to be commenced by

M3	Black spot	2027.
		EU: Approved, candidate for substitution.
		UK: Withdrawn.
		Canada: No current review.
		Codex: Pome fruit MRL set at 5 mg/kg (2005). Periodic review by
		JMPR starting in 2025.

PLANT GROWTH REGULATORS

Active constituent	Claim	Risks & Comments
1-methylcyclopropene	Improve fruit quality post-harvest.	EU: Approved.
		UK: Approved.
		Canada: No current review.
6-benzyladenine	Reducing fruit set, increasing fruit size and improving	EU: Approved.
	firmness of harvested apples.	UK: Approved.
Ammonium thiosulphate	Desiccation of blossoms and reduction of fruit set.	
AVG (aminoethoxyvinylglycine)	Manage maturation in the orchard and increase fruit	
	size and storage potential.	
Carbaryl	Fruit thinning	Australia: No current concerns.
		EU: Not approved.
		Canada: In review.
		USA: Upcoming review.
Cyanamide	Regulation of bud break.	
Ethephon	Advancement of maturity, improvement of red	EU: Approved.
	colour, thinning, loosening, retard vegetative growth	UK: Approved.
	and stimulate flowering in following season.	Canada: No current review.
		Codex: MRL set at 0.8 mg/kg (2016).
Gibberellins	For the improvement of fruit shape and increase in	EU: Approved.
	fruit size.	UK: Approved.
		Canada: In review.
Metamitron	Fruit thinning	EU: Approved.
		UK: Approved.
		Canada: No current review.
NAA (naphthylacetic acid)	Fruit thinning and controlling fruit drop.	
Paclobutrazol	Reduce vegetative growth.	EU: Approved, candidate for substitution.
		UK: Approved.

		Canada: In review.
Prohexadione-calcium	Reduction of shoot growth.	

WEEDS

Active constituent	MoA Group	Weed	Risks & Comments
2,2-DPA as Na salt	0	Various grasses.	
Amitrole	34	Various broadleaf weeds and grasses.	Australia: APVMA nominated for reconsideration. Canada: No current review. Codex: Pome fruit MRL set at 0.05 mg/kg (2004).
Asulam	18	Various broadleaf weeds and grasses.	
Carfentrazone-ethyl	14	Various broadleaf weeds.	EU: Approved. UK: Approved. Canada: In review.
Clethodim (non-bearing trees)	1	Various grasses.	Australia: No current concerns. EU: Approved. UK: Approved. Canada: No current review.
Dichlobenil	29	Various broadleaf weeds and grasses.	EU: Not approved. Canada: In review.
Diquat	22	Various broadleaf weeds and grasses.	APVMA proposed decisions published July 2024. All uses in orchards proposed to be deleted. 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	1	Various grasses.	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration. Canada: No current review. Codex: Pome fruit MRL set at 0.01 mg/kg (2017).
Flumioxazin	14	Various broadleaf weeds and grasses.	EU: Approved. Canada: In review. Codex: Pome fruit MRL set at 0.02 mg/kg (2016).
Glufosinate-ammonium	10	Various broadleaf weeds and grasses.	Australia: APVMA: Nominated for targeted spray drift reconsideration (potential risk

			to vegetation, natural aquatic and bystander areas). Canada: In review. Codex: Pome fruit MRL set at 0.1 mg/kg (2013).
Glyphosate	9	Various broadleaf weeds and grasses.	Australia: APVMA nominated for reconsideration for targeted spray drift reconsideration. EU: Approved. UK: Approved. Canada: No current review. USA: Upcoming review.
Haloxyfop-p	1	Various grasses.	Codex: Pome fruit MRL set at 0.02 mg/kg (2011).
Isoxaben (non-bearing trees)	29	Various broadleaf weeds.	EU: Approved. UK: Approved. Canada: No current review.
Norflurazon	12	Various broadleaf weeds and grasses.	EU: Not approved.
Oryzalin	3	Various broadleaf weeds and grasses.	EU: Not approved. UK: Withdrawn.
Oxyfluorfen	14	Various broadleaf weeds and grasses.	EU: Approved, candidate for substitution. UK: Withdrawn. Canada: In review. USA: Upcoming review.
Paraquat	22	Various broadleaf weeds and grasses.	APVMA proposed decisions July 2024. All uses in orchards proposed to be deleted. Publication of the final regulatory decision is expected in <u>December 2025</u> . Codex: Assorted tropical and sub-tropical fruits – inedible peel MRL and Pome fruits (group) set at *0.01 mg/kg (2006). Canada: Not approved. EU and UK: Not approved (2007). USA: Restricted use (under review).
Saflufenacil	14	Various broadleaf weeds.	EU: Not approved. Canada: No current review. Codex: Pome fruit MRL set at 0.01 mg/kg (2012).
Simazine	5	Various broadleaf weeds and grasses.	EU: Not approved.
Terbacil	5	Various broadleaf weeds and grasses.	EU: Not approved. Canada: In review.
Trifluralin	3	Various broadleaf weeds and grasses.	EU: Not approved.

		Canada: No current review.
		USA: Upcoming review.

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