

Pear

Agrichemical Regulatory Risk Assessment

May 2026

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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. This report provides details of CODEX MRLs as a means of highlighting risks for countries that rely on CODEX, however does not include every instance of where an importing country specific MRL is less than the relevant Australian MRL. The Australian Department of Agriculture Fisheries and Forestry provides information directly to grower bodies when MRLs change in other countries.

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 Pear in Australia, as well as assisting with any current initiatives aimed at identifying and addressing pest management deficiencies.

R0	Use no longer approved
R1	Short-term: Critical concern over retaining access < 1 year
R2	Medium-term: Maintaining access of significant concern <2-5 years
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R4	No current risk/concerns

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.
(Z)-8-DODECEN-1-YL ACETATE	--	Oriental fruit moth	(Z)-8-DODECEN-1-YL ACETATE Australia: No current concerns.
1-DODECANOL	--	Codling moth	1-DODECANOL Australia: No current concerns.
4-(P-ACETOXYPHENYL)-2-BUTANONE + MALATHION	1B	Male Queensland fruit fly	4-(P-ACETOXYPHENYL)-2-BUTANONE Australia: No current concerns MALATHION 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. Canada: In re-evaluation
ABAMECTIN	6	European red mite Two-spotted mite	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	European red mite Oriental fruit moth Codling moth Helicoverpa species Light brown apple moth	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 mite	Australia: No current concerns. UK: Withdrawn (2029).

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ACETAMIPRID + NOVALURON	4A + 15	Codling moth Light brown apple moth Longtailed mealybug Woolly apple aphid San Jose scale Tuber mealybug	<p>ACETAMIPRID Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Codex MRL: 0.8 mg/Kg UK: Withdrawn (2033). Canada: In re-evaluation</p> <p>NOVALURON Australia: No current concerns. Codex MRL: 3 mg/Kg EU: Not approved Canada: In re-evaluation</p>
ALPHA-CYPERMETHRIN	3A	Apple weevil Garden weevil	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved
AMMONIUM ACETATE	--	Mediterranean Fruit Fly	Australia: No current concerns EU: Not approved
BACILLUS THURINGIENSIS	11A	Armyworm Caterpillars Helicoverpa species Light brown apple moth Loopers Painted vine moth Vine moths	Australia: No current concerns.
BIFENAZATE	20D	Bryobia mite European red mite Two-spotted mite	Australia: No current concerns. Codex MRL: 0.7 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation
BIFENTHRIN	3A	Caterpillars Longtailed mealybug Two-spotted mite	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled
BUPROFEZIN	16	Longtailed mealybug	Australia: No current concerns. Codex MRL: 6 mg/Kg
CARBARYL	1A	Codling moth Helicoverpa species Light brown apple moth Pear and cherry slug Pear leaf blister mite Wingless grasshoppers	Australia: Codex - being considered for periodic review EU: Not approved Canada: In re-evaluation

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CARPOPHILUS AGGREGATION PHEROMONES	--	Carpophilus beetles	Australia: No current concerns
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
CLOFENTEZINE	10A	Bryobia mite European red mite Two-spotted mites 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 Tuber mealybug	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Codex MRL: 0.4 mg/Kg EU: Not approved Canada: In re-evaluation
COPPER	--	Snails	Australia: No current concerns.
CYCLANILIPROLE	28	Codling moth Apple looper Light brown apple moth	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved
CYDIA POMONELLA GRANULOSIS VIRUS	31	Codling moth Oriental fruit moth	Australia: No current concerns.
CYFLUMETOFEN	25A	Bryobia mite European red mite Two-spotted mites	Australia: No current concerns. Codex MRL: 0.4 mg/Kg
DELTAMETHRIN	3A	Mediterranean Fruit Fly	Australia: No current concerns.
DIAZINON	1B	San Jose 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
DIMETHOATE	1B	PER13859 for the control of fruit fly	Australia: APVMA: Chemical Review prioritised to be commenced by 2029 . Permit PER13859 Expiry date: 31/05/2030 EU: Not approved Canada: In re-evaluation

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E,E-9,11-TETRADECADIEN-1-YL ACETATE E-11-TETRADECEN-1-YL ACETATE	--	Light brown apple moth	E,E-9,11-TETRADECADIEN-1-YL ACETATE Australia: No current concerns. E-11-TETRADECEN-1-YL ACETATE Australia: No current concerns.
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
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
FENOXYCARB	7B	Codling moth Light brown apple moth San Jose scale	Australia: No current concerns. EU: Not approved
FENPYROXIMATE	21A	European red mite Two-spotted mites	Australia: No current concerns.
FIPRONIL	2B	Ants Fruit fly trap toxicant European Wasp	Australia: APVMA: Proposed Regulatory decision was expected by April 2026. APVMA is now advising the by end of 2026 at the earliest. Permit PER89402 Expiry date: 30/04/2027 EU: Not approved
FLONICAMID	29	Longtailed mealybug	Australia: No current concerns. Codex MRL: 0.8 mg/Kg
HEXYTHIAZOX	10A	European red mite Two-spotted mite	Australia: No current concerns. Codex MRL: 0.4 mg/Kg
INDOXACARB	22A	Apple weevil Codling moth Curculio beetle Fuller's rose weevil Garden weevil Helicoverpa species Light brown apple moth Wingless grasshoppers	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved
LAMBDA-CYHALOTHRIN	3A	PER12961 for the control of Mediterranean Fruit Fly & Queensland Fruit Fly	Australia: No current concerns. Permit PER12961 Expiry date: 31/03/2030 EU: Approved, candidate for substitution

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MALATHION	1B	Apple leafhopper Caterpillars Codling moth European red mite Locust Scale insects Spider mites Thrips Wingless grasshoppers Woolly apple aphid Fruit flies (lures)	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. Canada: In re-evaluation
METALDEHYDE	--	Snails and slugs	Australia: No current concerns Canada: In re-evaluation
METHOMYL	1A	Light brown apple moth	Australia: APVMA reconsideration. Was to start 2026. APVMA to publish a new Chemical Review priority list by mid 2026. Codex MRL: 0.3 mg/Kg EU: Not approved Canada: In re-evaluation
METHOXYFENOZIDE	18	Light brown apple moth Loopers	Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Not approved Canada: In re-evaluation
MILBEMECTIN	6	European red mite Two-spotted mites	Australia: No current concerns.
NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ARMIGERA	--	Helicoverpa species	Australia: No current concerns.
OMETHOATE	1B	European red mite Two-spotted mites Woolly aphid	Australia: No current concerns. EU: Not approved

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PARAFFINIC OIL	UNM	Spider mites Two-spotted mites Bryobia mite European red mite Frosted scale Oyster shell scale Pear leaf blister mite San Jose scale Scale insects Pear rust mites Two spotted spider mite Brown mite, pear rust mite	Australia: No current concerns.
PROPARGITE	12C	Two-spotted mites	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. EU: Not approved Canada: Cancelled
PROTHIOFOS	1B	Longtailed mealybug Mealybugs	Australia: No current concerns. EU: Not approved
PUTRESCINE	--	Mediterranean Fruit Fly	Australia: No current concerns
PYRETHRINS	3A	Aphids Apple leafhopper Caterpillars Thrips	Australia: No current concerns. Permit PER82426 Expiry date: 31/01/2030
PYRIDABEN	21A	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: 28/02/2027
SPINETORAM	5	Caterpillars Codling moth Helicoverpa species Light brown apple moth Loopers Oriental fruit moth Pear and cherry slug Western flower thrips PER12590 for the control of Fruit Fly (suppression only)	Australia: No current concerns. Permit PER12590 Expiry date: 31/05/2029 Codex MRL: 0.05 mg/Kg EU: Not approved Canada: In re-evaluation

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SPINOSAD	5	Helicoverpa species Light brown apple moth Loopers Western flower thrips Pear and cherry slug	Australia: No current concerns. 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	European red mite Mites Pear leaf blister mite	Australia: No current concerns.
TEBUFENOZIDE	18	Colding moth Light brown apple moth Loopers	Australia: No current concerns. Codex MRL: 1 mg/Kg
TEBUFENPYRAD	21A	European red mite Two-spotted mites	Australia: No current concerns. EU: Approved, candidate for substitution
TETRANILIPROLE	28	Apple weevil Fuller's rose weevil Garden weevil	Australia: No current concerns. Codex MRL: 0.4 mg/Kg
THIACLOPRID	4A	Codling moth Oriental fruit moth Woolly apple aphid PER14562 for the control of Mediterranean Fruit Fly	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit PER14562 Expiry date: 31/05/2027 Codex MRL: 0.7 mg/Kg EU: Not approved Canada: In re-evaluation
TRICHLORFON	1B	Rutherglen bug Fruit flies	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled
TRIMETHYLAMINE HYDROCHLORIDE	--	Mediterranean Fruit Fly	Australia: No current concerns EU: Not approved

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FUNGICIDES – Disease Control

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Active Constituent	MoA Group	Pest	Risks and Comments
BOSCALID	7	Black spot	Australia: No current concerns. Codex MRL: 2 mg/Kg Canada: In re-evaluation
BOSCALID + PYRACLOSTROBIN	7 + 11	Black 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
CAPTAN	M4	Black spot	Australia: No current concerns. Codex MRL: 15 mg/Kg
COPPER	M1	Bitter rot Black spot Fly speck Ripe fruit rot / spot Sooty blotch	Australia: No current concerns.
CYPRODINIL	9	Black spot	Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation
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: 5 mg/Kg EU: Not approved Canada: In re-evaluation
DITHIANON	M9	Black spot	Australia: No current concerns. Codex MRL: 1 mg/Kg

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DODINE	U12	Black spot	Australia: No current concerns. Codex MRL: 5 mg/Kg 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	7	Black spot	Australia: No current concerns. Codex MRL: 0.5 mg/Kg
FLUOPYRAM + TRIFLOXYSTROBIN	7 + 11	Black 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	Black spot	Australia: No current concerns. Codex MRL: 0.9 mg/Kg
HEXACONAZOLE	3	Scab (Venturia pirina)	Australia: No current concerns. EU: Not approved Canada: Cancelled
IMAZALIL	3	Blue mould	Australia: No current concerns.
IODINE	M	Bactericide / fungicide	Australia: No current concerns. Canada: Cancelled
IPRODIONE	2	Blue and green moulds Blue mould Botrytis blight Ripe fruit rot / spot Storage rot	Australia: No current concerns. EU: Not approved USA: Under Registration Review (scheduled)
ISOPYRAZAM	7	Black spot	Australia: No current concerns. Codex MRL: 0.4 mg/Kg EU: Not approved
KRESOXIM-METHYL	11	Black spot	Australia: No current concerns. Codex MRL: 0.15 mg/Kg

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MANCOZEB	M3	Bitter rot Black spot Fly speck Powdery mildew Ripe fruit rot / spot Sooty blotch Target spot (early blight)	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)
METIRAM	M3	Bitter rot Black spot Sooty blotch	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for foliar applications in potato crops.
MYCLOBUTANIL	3	Black spot	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.6 mg/Kg EU: Not approved Canada: In re-evaluation
PARAFFINIC OIL	UNM	Powdery mildew	Australia: No current concerns.
PENCONAZOLE	3	Black spot	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 EU: Not approved
PROQUINAZID	13	Powdery mildew	Australia: No current concerns.
PYRACLOSTROBIN	11	Black spot	Australia: No current concerns. Codex MRL: 0.7 mg/Kg Canada: In re-evaluation
PYRIMETHANIL	9	Blue mould Grey mould Ripe fruit rot / spot	Australia: No current concerns. Codex MRL: 15 mg/Kg Canada: In re-evaluation
SULPHUR	M2	Black spot Powdery mildew	Australia: No current concerns. Canada: In re-evaluation
THIABENDAZOLE	1	Blue mould Grey mould Ripe fruit rot / spot	Australia: No current concerns. Codex MRL: 3 mg/Kg
THIRAM	M3	Black spot	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

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ZINEB	M3	Bitter rot Black spot Sooty blotch	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled
ZIRAM	M3	Black spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Approved, candidate for substitution Canada: Cancelled

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HERBICIDES – Weed Control

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Risks and Comments
2,2-DPA PRESENT AS THE SODIUM SALT	0	Australia: No current concerns. EU: Not approved
AMITROLE + AMMONIUM THIOCYANATE	34	AMITROLE Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.05 mg/Kg Canada: Cancelled AMMONIUM THIOCYANATE Australia: No current concerns.
CARFENTRAZONE-ETHYL	14	Australia: No current concerns. UK: Withdrawn (2033). Canada: In re-evaluation
CLETHODIM	1	Australia: No current concerns.
DICHLORBENIL	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 Mid 2026. Codex MRL: 0.02 mg/Kg EU: Not approved
FLUAZIFOP-P	1	Australia: No current concerns
FLUMIOXAZIN	14	Australia: No current concerns. Codex MRL: 0.02 mg/Kg Canada: In re-evaluation
GLUFOSINATE-AMMONIUM	10	Australia: Nominated for targeted spray drift reconsideration EU: Not approved Canada: In re-evaluation
GLYPHOSATE	9	Australia: 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.

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NORFLURAZON	12	Australia: No current concerns. EU: Not approved
ORYZALIN	3	Australia: No current concerns. EU: Not approved
OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution 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 Mid 2026. Candidate chemical recommended to be listed to Rotterdam Convention. Codex MRL: 0.01 mg/Kg EU: Not approved Canada: Cancelled USA: Restricted use
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
TRIFLURALIN	3	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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FUMIGANTS

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Active Constituent	Use	Risks and Comments
1,3-DICHLOROPROPENE	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Pending Canada: Cancelled
CHLOROPICRIN	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Not approved USA: Restricted use
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
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.
METHYL BROMIDE	Disinfestation treatment of commodities	Australia: APVMA nominated for reconsideration after 2029. Permit PER96144 Expiry date: 31/01/2031 EU: Not approved Canada: Remaining pre-plant soil fumigation uses were cancelled (June 2025) USA: Restricted use

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PLANT GROWTH REGULATORS AND OTHERS

Blue text = new APVMA approved uses

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Improves quality after shipping, storage and handling,	Australia: No current concerns UK: Withdrawn (2034).
6-BENZYLADENINE + GIBBERELLINS	Fruit set improvement	6-BENZYLADENINE Australia: No current concerns. GIBBERELLINS Australia: No current concerns.
METAMITRON	Fruit thinning	Australia: No current concerns
NAPHTHYLACETIC ACID = NAA	Prevention of pre-harvest drop	Australia: No current concerns

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