

Melon

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 melons 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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INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	Root-knot nematodes Vegetable leafminer	Australia: APVMA nominated for reconsideration and spray drift assessment. Codex MRL: 0.01 mg/Kg (melons, except watermelon) Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
AFIDOPYROPEN	9D	Cabbage aphid Cotton aphid (Melon aphid) Currant lettuce aphid Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns. EU: Not 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
<i>Bacillus thuringiensis</i>	11A	Armyworms Cabbage white butterfly Helicoverpa Loopers Cotton bollworm Native budworm Cabbage moth Lightbrown apple moth Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)
BIFENAZATE	20D	Bryobia mite Two-spotted (Red spider) mite	Australia: No current concerns. Codex MRL: 0.5 mg/Kg Canada: In re-evaluation

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BIFENTHRIN	3A	Cucumber moth <i>Helicoverpa</i> Silverleaf (Poinsettia) whitefly	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled
CARBARYL	1A	28-spotted potato ladybird Armyworms Cucurbit stem borer Cutworms European earwig Green vegetable bug <i>Helicoverpa</i> Leaf eating ladybirds Potato moth (Leafminer) Pumpkin beetle Pumpkin beetle Rutherglen bug Wingless grasshopper	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CHLORANTRANILIPROLE	28	Cucumber moth <i>Helicoverpa</i>	Australia: No current concerns. Codex MRL: 0.3 mg/Kg Canada: In re-evaluation
CLOTHIANIDIN	4A	PER95266 for the control of Cucumber Fruit Fly	Australia: APVMA: Currently under review. Proposed regulatory decisions expected between December 2025 to October 2026. Permit PER95266 Expiry date: 31/01/2026 Codex MRL: 0.02 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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Active Constituent	MoA Group	Pest	Risks and Comments
CYANTRANILIPROLE	28	Melon aphid Silverleaf whitefly Cotton bollworm Cucumber moth Native budworm [Suppression only] Western flower thrips Permit PER93849 for the control of <i>Liriomyza</i> leafminers	Australia: No current concerns. Permit PER93849 Expiry date: 31/12/2026 Codex MRL: 0.3 mg/Kg
CYANTRANILIPROLE DIAFENTHIURON	28 + 12A	Silverleaf whitefly Melon aphid Cotton bollworm Native budworm Cucumber moth Cluster caterpillar Green peach aphid Two-spotted mite Suppression of: Western flower thrips Tomato thrips Plague thrips	CYANTRANILIPROLE Australia: No current concerns. Permit PER93849 Expiry date: 31/12/2026 Codex MRL: 0.3 mg/Kg DIAFENTHIURON Australia: No current concerns. EU: Not approved
CYCLOBUTRIFLURAM	N-3	Root-knot nematodes	Australia: No current concerns.
CYROMAZINE	17	Permit PER81867 for the control of Leaf miner	Australia: No current concerns. Permit PER81867 Expiry date: 30/09/2026 Codex MRL: 0.5 mg/Kg (melons, except watermelon) EU: Not approved

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DIAFENTHIURON	12A	Cluster Caterpillar Cotton Aphid Cotton Budworm Cucumber Moth Green Peach Aphid <i>Helicoverpa Punctigera</i> Plague Thrips Suppression Only: Poinsettia Whitefly Tobacco Leafminer Tomato Thrips Two Spotted Mite Western Flower Thrip	Australia: No current concerns. EU: Not approved
DIAZINON	1B	--	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	Aphids Thrips Green Vegetable Bug Jassids Cucumber Fly Permit PER 87065 as postharvest treatment for: Cucumber fly Lesser Queensland Fruit Fly Queensland Fruit Fly Mediterranean fly Banana fly Mango Fly	Australia: APVMA reconsideration. Prioritised to be commenced by 2029 . Permit PER87065 Expiry date: 30/11/2025 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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DIMPROPYRIDAZ	36	Silver Leaf White Fly Greenhouse Whitefly Cotton/melon aphid	Australia: No current concerns. EU: Pending
EMAMECTIN	6	Cluster caterpillar Cucumber moth Helicoverpa Tomato grub	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Approved, candidate for substitution. UK: Withdrawn (2024).
ETOXAZOLE	10B	PER14650 for the control of Two-spotted mite	Australia: No current concerns. Permit PER14650 Expiry date: 30/11/2027 EU: Approved, candidate for substitution.
FLONICAMID	29	Cotton aphid (Melon aphid) Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 0.2 mg/Kg
FLUAZAINDOLIZINE	N-UN	Root-knot nematodes	Australia: No current concerns. EU: Pending
FLUBENDIAMIDE	28	Helicoverpa spp. Cucumber moth	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved UK: Withdrawn (2024).
FLUENSULFONE	5	Root-knot nematodes	Australia: No current concerns. Codex MRL: 0.3 mg/Kg (melons, except watermelon)
FLUPYRADIFURONE	4D	Cotton aphid (Melon aphid) Green peach aphid Greenhouse whitefly Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 0.4 mg/Kg (melons, except watermelon)
HELICOVERPA ARMIGERA NPV	31	Helicoverpa spp.	Australia: No current concerns.

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HEXYTHIAZOX	10A	PER95394 for the control of Tomato red 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
IMIDACLOPRID	4A	Green peach aphid	Australia: APVMA: Currently under review . Proposed regulatory decisions expected between December2025 to October2026. Codex MRL: 0.2 mg/Kg (melons, except watermelon) EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
MALATHION	1B	Pumpkin beetle Aphid, Green vegetable bug, Jassid, Leaf hopper, Red legged earth mite Rutherglen bug, 28spotted ladybird	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. UK: Withdrawn (2025). Canada: In re-evaluation USA: Under Registration Review (scheduled)
METHOMYL	1A	Permit PER82428 for the control of: Helicoverpa spp. Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including WFT	Australia: APVMA reconsideration. Prioritised to be commenced by 2026 . Permit PER82428 Expiry date: 31/01/2029 Codex MRL: 0.1 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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ORANGE OIL	--	Whitefly (<i>Bemisia tabaci</i>) Two spotted mite (<i>Tetranychus urticae</i>) Suppression: Onion thrips (<i>Thrips tabaci</i>) & Western flower thrips (<i>Frankliniella occidentalis</i>) Tomato thrips (<i>Frankliniella schultzei</i>) Green peach aphid (<i>Myzus persicae</i>) & Melon aphid (<i>Aphis gossypii</i>) Serpentine leafminer (<i>Liriomyza huidobrensis</i>),	Australia: No current concerns.
PARAFFINIC OIL	UNM	Aphids Leafhoppers Mites Thrips	Australia: No current concerns.
PETROLEUM OIL	UN	Aphids, Mites, Thrips, Leafhopper Permit PER12221 for the control of: Greenhouse whitefly Sweet potato whitefly Silverleaf whitefly	Australia: No current concerns. Permit PER12221 Expiry date: 30/09/2027 EU: Not approved
PIPERONYL BUTOXIDE	--	Silverleaf Whitefly	Australia: No current concerns. Codex MRL: 1 mg/Kg USA: Under Registration Review (scheduled)
PIPERONYL BUTOXIDE PYRIPROXYFEN	7C	Silverleaf Whitefly	PIPERONYL BUTOXIDE Australia: No current concerns. Codex MRL: 1 mg/Kg USA: Under Registration Review (scheduled) PYRIPROXYFEN Australia: No current concerns. Codex MRL: 0.07 mg/Kg (melons, except watermelon)

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PIRIMICARB	1A	Aphids	Australia: No current concerns. Codex MRL: 0.2 mg/Kg (melons, except watermelon) EU: Approved, candidate for substitution. Canada: Cancelled
PYMETROZINE	9B	Melon aphid Green peach aphid Potato aphid Cowpea aphid Suppression of: Silverleaf whitefly Greenhouse whitefly	Australia: APVMA nominated for reconsideration and spray drift assessment. EU: Not approved Canada: Cancelled
PYRETHRINS	3A	Fruitfly Rutherglen bug Spiders	Australia: No current concerns. Codex MRL: 0.05 mg/Kg
PYRIPROXYFEN	7C	Ants Greenhouse whitefly Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 0.07 mg/Kg (melons, except watermelon)
SPINETORAM	5	Helicoverpa spp. Western flower thrips Permit PER 94451 for the control of Leaf miners	Australia: No current concerns. Permit PER94451 Expiry date: 31/07/2027 Codex MRL: 0.01 mg/Kg (melons, except watermelon) EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation

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SPINOSAD	5	Helicoverpa Western flower thrips Permit PER89870 for the control of Fall Armyworm. Permit PER94331 for the control of leafminers	Australia: No current concerns. Permit PER89870 Expiry date: 30/10/2030 Permit PER94331 Expiry date: 30/04/2026 Codex MRL: 0.2 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Cotton aphid (Melon aphid) Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved Canada: In re-evaluation
SULFOXAFLOX	4C	Cotton aphid (Melon aphid) Green peach aphid Greenhouse whitefly	Australia: No current concerns. Codex MRL: 0.5 mg/Kg
TRICHLORFON	1B	Cabbage White Butterfly, Cabbage Moth, Green Vegetable Bug, 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
AZOXYSTROBIN	11	Downy mildew Gummy stem blight Powdery mildew PER91493 for the control of post-Harvest Rot and Stem End Rot	Australia: No current concerns. Permit PER91493 Expiry date: 31/05/2029 Codex MRL: 1 mg/Kg Canada: In re-evaluation
AZOXYSTROBIN	11	Post Harvest Rot and Stem End Rot	Australia: No current concerns. Codex MRL: 1 mg/Kg Canada: In re-evaluation
BOSCALID KRESOXIM-METHYL	7 + 11	Powdery mildew	BOSCALID Australia: No current concerns. Codex MRL: 3 mg/Kg Canada: In re-evaluation KRESOXIM-METHYL Australia: No current concerns. Codex MRL: 0.5 mg/Kg
BUPIRIMATE	8	Powdery mildew	Australia: No current concerns.
CHLOROTHALONIL	M5	Alternaria leaf blight Anthracnose Downy mildew Gummy stem blight Powdery mildew Rhizoctonia ground rot Target leafspot	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Codex MRL: 2 mg/Kg (melons, except watermelon) EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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Active Constituent	MoA Group	Pest	Risks and Comments
COPPER	M1	Angular leaf spot Anthracnose Bacterial spot Downy mildew Gummy stem blight Late (Irish) blight Leaf diseases/spots Powdery mildew Rust Septoria Target spot	Australia: No current concerns.
CYFLUFENAMID	U6	Powdery mildew	Australia: No current concerns.
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 Canada: In re-evaluation
DIMETHOMORPH AMETOCTRADIN	40 + 45	Downy mildew	DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation AMETOCTRADIN Australia: No current concerns. Codex MRL: 3 mg/Kg
FLORYLPICOXAMID	21	Powdery mildew	Australia: No current concerns. EU: Pending

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FLUOPICOLIDE	43	DOWNY MILDEW	Australia: No current concerns Codex MRL: 0.5 mg/Kg EU: Approved, candidate for substitution.
GUAZATINE ACETATES	M7	Alternaria fruit rot Fusarium fruit rot Geotrichum fruit rot (Sour rot) Pink mould rot Rhizopus rot	Australia: No current concerns. EU: Not approved
HYDROGEN PEROXIDE PEROXYACETIC ACID	M	Powdery mildew	Australia: No current concerns.
IMAZALIL	3	Alternaria fruit rot Fusarium fruit rot Geotrichum fruit rot (Sour rot) Pink mould rot	Australia: No current concerns.
IODINE	M	Bactericide Fungi	Australia: No current concerns. Canada: Cancelled
KRESOXIM-METHYL	11	Powdery Mildew	Australia: No current concerns. Codex MRL: 0.5 mg/Kg
MANCOZEB	M3	Alternaria leaf blight Anthracnose Downy mildew Gummy stem blight Powdery mildew Septoria leaf spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)

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Active Constituent	MoA Group	Pest	Risks and Comments
MANCOZEB DIMETHOMORPH	M3 + 40	Downy mildew Anthracnose Gummy stem blight Alternaria leaf spot Septoria spot	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation
MANCOZEB METALAXYL	M3 + 4	Downy mildew Anthracnose Gummy Stem Blight Alternaria Leaf Spot Septoria Spot	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. METALAXYL Australia: No current concerns. Codex MRL: 0.15 mg/Kg (melons, except watermelon) EU: Approved, candidate for substitution. Canada: In re-evaluation
METALAXYL	4	Phytophthora soil fungus (Dieback) Alternaria leaf blight Anthracnose Damping off Downy mildew Gummy stem blight	Australia: No current concerns. Codex MRL: 0.15 mg/Kg (melons, except watermelon) EU: Approved, candidate for substitution. Canada: In re-evaluation
METIRAM	M3	Downy mildew Gummy stem blight	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for foliar applications in potato crops.
METRAFENONE	50	Powdery mildew	Australia: No current concerns. Codex MRL: 0.5 mg/Kg
ORANGE OIL	--	Powdery mildew (<i>Podosphaera xanthii</i>) Grey mould (<i>Botrytis cinerea</i>) Suppression only	Australia: No current concerns.

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Active Constituent	MoA Group	Pest	Risks and Comments
OXATHIPIPROLIN	49	Downy mildew	Australia: No current concerns. Codex MRL: 0.2 mg/Kg
PENTHIOPYRAD	7	Grey mould Gummy stem blight Powdery mildew	Australia: No current concerns. Codex MRL: 0.5 mg/Kg
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Downy mildew	Australia: No current concerns.
PROPAMOCARB	28	Anthrachnose Downy mildew Gummy stem blight	Australia: No current concerns. Codex MRL: 5 mg/Kg
PROPAMOCARB HYDROCHLORIDE FLUOPICOLIDE	28 + 43	Downy mildew	PROPAMOCARB Australia: No current concerns. Codex MRL: 5 mg/Kg FLUOPICOLIDE Australia: No current concerns Codex MRL: 0.5 mg/Kg EU: Approved, candidate for substitution.
PROPINEB	M3	Downy mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved
PROPINEB OXADIXYL	M3 + 4	Downy mildew Anthrachnose Gummy stem blight	PROPINEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved OXADIXYL Australia: No current concerns. EU: Not approved
PROQUINAZID	13	Powdery mildew	Australia: No current concerns.

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PYDIFLUMETOFEN DIFENOCONAZOLE	7 + 3	Alternaria leaf spot Gummy stem blight Cercospora leaf spot Powdery mildew	PYDIFLUMETOFEN Australia: No current concerns. Codex MRL: 0.4 mg/Kg EU: Pending Canada: In re-evaluation DIFENOCONAZOLE Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.7 mg/Kg (melons, except watermelon) EU: Approved, candidate for substitution. Canada: In re-evaluation
PYRIOFENONE	50	Powdery mildew	Australia: No current concerns. Codex MRL: 0.2 mg/Kg
<i>Streptomyces lydicus</i>	--	Powdery mildew	Australia: No current concerns.
TEA TREE OIL	BM01	Powdery mildew	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: Restricted use
TRIADIMENOL	3	Powdery mildew	Australia: APVMA nominated for reconsideration after 2029. Codex MRL: 0.2 mg/Kg EU: Not approved Canada: Cancelled
ZINEB	M3	Anthrachnose Downy mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Cancelled

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HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CLOMAZONE	13	Australia: No current concerns. Canada: In re-evaluation
DIQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is now expected in Mid 2026 EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: APVMA Nominated for targeted spray drift reconsideration Canada: Cancelled
PARAQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is now expected in Mid 2026. Candidate chemical recommended to be listed to Rotterdam Convention. Codex MRL: 0.02 mg/Kg EU: Not approved Canada: Cancelled USA: Restricted use
QUIZALOFOP-P-ETHYL	1	Australia: No current concerns.
SETHOXYDIM	1	Australia: No current concerns. EU: Not approved Canada: Phase-Out

FUMIGANTS – Mixed Function

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

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Active Constituent	Use	Risks and Comments
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
DAZOMET	Control of bacterial spot (<i>Xanthomonas</i> 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.

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

Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE	Benefit of extending the postharvest life of melons.	Australia: No current concerns

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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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