

## **Squash**

# **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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 squash crops 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
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

## Squash - 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
ABAMECTIN	6	Root-knot nematodes  Permit PER14722 for the control of Tomato red spider mite	Australia: <a href="#">APVMA nominated for reconsideration and spray drift assessment</a> . Permit PER14722 Expiry date: 31/05/2030 + Permit PER96481 Expiry date: 31/07/2028 Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
AFIDOPYROPEN	9D	Cabbage aphid Cotton / melon aphid Currant lettuce aphid Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 0.07 mg/Kg EU: Not approved
ALPHA-CYPERMETHRIN	3A	Permit PER80138 for the control of Cucumber fly	Australia: <a href="#">APVMA nominated for reconsideration after 2029</a> . Permit PER80138 Expiry date: 31/12/2029 Codex MRL: 0.07 mg/Kg EU: Not approved
<i>Bacillus thuringiensis</i>	11A	Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Helicoverpa Loopers Lightbrown apple moth Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)
BETA-CYFLUTHRIN	--	Cucumber moth <i>Helicoverpa</i>	Australia: No current concerns.

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BIFENAZATE	20D	Bryobia mite Two-spotted (Red spider) mite	Australia: No current concerns. Codex MRL: 0.5 mg/Kg Canada: In re-evaluation
BIFENTHRIN	3A	Caterpillars Cucumber moth <i>Helicoverpa</i> Mites Moths Silverleaf (Poinsettia) whitefly Whitefly	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> EU: Not approved Canada: Cancelled
BUPROFEZIN	16	Permit PER82647 for the control of greenhouse whitefly, cotton whitefly and silverleaf whitefly	Australia: No current concerns. Permit PER82467 Expiry date: 31/03/2030 Codex MRL: 0.7 mg/Kg
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 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> Lucerne leaf roller	Australia: No current concerns. Codex MRL: 0.3 mg/Kg Canada: In re-evaluation

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CHLORANTRANILIPROLE I THIAMETHOXAM	28 + 4A	Corn Earworm Native Budworm Potato Moth Cluster caterpillar Green peach aphid Silverleaf Whitefly Greenhouse whitefly Western Flower Thrips	CHLORANTRANILIPROLE Australia: No current concerns. Codex MRL: 0.3 mg/Kg Canada: In re-evaluation  THIAMETHOXAM Australia: APVMA: <a href="#">Currently under review</a> . Proposed regulatory decisions expected between December 2025 to October 2026. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CLITORIA TERNATEA EXTRACT	UNE	Silver whitefly	Australia: No current concerns.
CLOTHIANIDIN	4A	Permit PER95266 for the control of Cucumber Fruit Fly	Australia:APVMA: <a href="#">Currently under review</a> .Proposed regulatory decisions expected between December2025 to October2026. 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)
CYANTRANILIPROLE	28	Cotton / melon aphid Cucumber moth <i>Helicoverpa</i> Silverleaf (Poinsettia) whitefly Western flower thrips  PER93849 for the control of Leaf miners PER84805 for the control of Tomato potato psyllid	Australia: No current concerns. Permit PER93849 Expiry date: 31/12/2026 Permit PER84805 Expiry date: 31/12/2027 Codex MRL: 0.3 mg/Kg
CYCLOBUTRIFLURAM	n-3	Root Knot Nematode	Australia: No current concerns.

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CYROMAZINE	17	Permit PER81867 for the control of vegetable leafminer	Australia: No current concerns. Permit PER81867 Expiry date: 30/09/2026 Codex MRL: 2 mg/Kg EU: Not approved
DIAFENTHIURON I CYANTRANILIPROLE	12A + 28	Cluster caterpillar Cotton / melon aphid Cucumber moth Green peach aphid Helicoverpa Plague thrips Silverleaf whitefly Tomato thrips Two-spotted (Red spider) mite Western flower thrips	DIAFENTHIURON Australia: No current concerns. EU: Not approved  CYANTRANILIPROLE Australia: No current concerns. Codex MRL: 0.3 mg/Kg
DIMPROPYRIDAZ	36	Cotton/melon aphid Greenhouse whitefly Silverleaf whitefly	Australia: No current concerns. EU: Pending
EMAMECTIN	6	Cluster caterpillar Cucumber moth <i>Helicoverpa</i> Tomato grub	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> EU: Approved, candidate for substitution. UK: Withdrawn (2024).
ETOXAZOLE	10B	Permit PER82460 for the control of Tomato red spider mite and two-spotted mite	Australia: No current concerns. Permit PER82460 Expiry date: 31/05/2028 EU: Approved, candidate for substitution.
FLONICAMID	29	Cotton / 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

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FLUBENDIAMIDE	28	Cluster caterpillar <i>Helicoverpa</i>	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Not approved UK: Withdrawn (2024).
FLUENSULFONE	5	Root-knot nematode	Australia: No current concerns. Codex MRL: 0.7 mg/Kg
FLUPYRADIFURONE	4D	Cotton / melon aphid Green peach aphid Greenhouse whitefly Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 0.2 mg/Kg
HELICOVERPA ARMIGERA NPV	31	<i>Helicoverpa</i> spp	Australia: No current concerns.
HEXYTHIAZOX	10A	Permit PER95394 for the control of Tomato spider mite, Twospotted mite, Broad mite, Tomato russet mite	Australia: No current concerns. Permit PER95394 Expiry date: 30/09/2029 Codex MRL: 0.05 mg/Kg
HYDROGEN PEROXIDE	--	Permit PER93702 for the control of Hairy root or crazy root	Australia: No current concerns. Permit PER93702 Expiry date: 28/02/2027
IMIDACLOPRID	4A	Green peach aphid Pear and cherry slug Silverleaf (Poinsettia) whitefly	Australia: APVMA: <a href="#">Currently under review</a> . Proposed regulatory decisions expected between December2025 to October2026. Codex MRL: 1 mg/Kg EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)

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MALATHION	1B	28-spotted potato ladybird Aphids Green vegetable bug Jassids Leafhoppers Pumpkin beetle Redlegged earth mite Rutherglen bug	Australia: The final regulatory decision was published in an <a href="#">APVMA Special Gazette on 2 May 2024</a> . 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 Cluster caterpillar Cucumber moth <i>Helicoverpa</i> Loopers Rutherglen bug Thrips Webworms Western flower thrips	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2026</a> . 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)
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 Greenhouse whitefly Mites Silverleaf (Poinsettia) whitefly Thrips	Australia: No current concerns.

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PETROLEUM OIL	UN	Aphids Leafhoppers Greenhouse whitefly Mites Silverleaf (Poinsettia) whitefly Thrips	Australia: No current concerns. EU: Not approved
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: 0.04 mg/Kg
PIRIMICARB	1A	Aphids	Australia: No current concerns. Codex MRL: 1 mg/Kg EU: Approved, candidate for substitution. Canada: Cancelled
PYMETROZINE	9B	Cotton / melon aphid Cowpea aphid Green peach aphid Greenhouse whitefly Potato aphid Silverleaf (Poinsettia) whitefly	Australia: <a href="#">APVMA nominated for reconsideration and spray drift assessment.</a> EU: Not approved Canada: Cancelled



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PYRETHRINS	3A	Ants Aphids Cabbage white butterfly Caterpillars Diamondback (Cabbage) moth Earwig Leafhoppers Mealybugs Scale insects Thrips Whitefly	Australia: No current concerns. Codex MRL: *0.05 mg/Kg
PYRIPROXYFEN	7C	Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 0.04 mg/Kg
SPINETORAM	5	Caterpillars Cucumber moth <i>Helicoverpa</i> Western flower thrips	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	Cucumber moth <i>Helicoverpa</i> Western flower thrips  Permit PER89870 for the control of Fall armyworm	Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030 Codex MRL: 0.2 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Cotton / 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

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SULFOXAFLO	4C	Cotton / melon aphid Green peach aphid Greenhouse whitefly	Australia: No current concerns. Codex MRL: 0.5 mg/Kg
TRICHLORFON	1B	Cutworms	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> 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
AMETOCTRADIN I DIMETHOMORPH	45 + 40	Downy mildew	AMETOCTRADIN Australia: No current concerns. Codex MRL: 0.07 mg/Kg EU: Not approved  DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation
<i>Aureobasidium pullulans</i>	--	Botrytis Grey Mould Suppression of Sclerotinia	Australia: No current concerns.
AZOXYSTROBIN	11	Downy mildew Gummy stem blight PER93402 for the control of Powdery mildew	Australia: No current concerns. Permit PER93402 Expiry date: 31/05/2027 Codex MRL: 1 mg/Kg Canada: In re-evaluation
AZOXYSTROBIN I OXATHIPIPROLIN	11 + 49	Gummy stem blight Sclerotinia rot	AZOXYSTROBIN Australia: No current concerns. Permit PER93402 Expiry date: 31/05/2027 Codex MRL: 1 mg/Kg Canada: In re-evaluation  OXATHIPIPROLIN Australia: No current concerns. Codex MRL: 0.2 mg/Kg
BENALAXYL	--	Alternaria leaf blight Downy mildew Gummy stem blight	Australia: No current concerns. EU: Not approved

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BOSCALID   KRESOXIM-METHYL	7 + 11	Powdery mildew	<p>BOSCALID Australia: No current concerns. Codex MRL: 3 mg/Kg Canada: In re-evaluation</p> <p>KRESOXIM-METHYL Australia: No current concerns. Codex MRL: 0.5 mg/Kg</p>
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. <a href="#">Prioritised to be commenced by 2028.</a> Codex MRL: 3 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Angular leaf spot Anthracnose Bacterial spot Downy mildew Gummy stem blight Leaf diseases/spots Powdery mildew	Australia: No current concerns.
CYFLUFENAMID	U6	Powdery mildew	Australia: No current concerns.
DIFENOCONAZOLE	3	PER93402 for the control of Powdery mildew	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Permit PER93402 Expiry date: 31/05/2027 Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation

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DIMETHOMORPH	40	Alternaria leaf blight Anthracnose Downy mildew Gummy stem blight Septoria spot	Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Not approved Canada: In re-evaluation
FLORYLPICOXAMID	21	Powdery mildew	Australia: No current concerns. EU: Pending
FLUOPICOLIDE I PROPAMOCARB HCL	43 + 28	Downy mildew	FLUOPICOLIDE Australia: No current concerns Codex MRL: 0.5 mg/Kg EU: Approved, candidate for substitution.  PROPAMOCARB HCL Australia: No current concerns. Codex MRL: 5 mg/Kg
HYDROGEN PEROXIDE   PEROXYACETIC ACID	M	Powdery mildew	Australia: No current concerns
IODINE	M	Bacteria and Fungi	Australia: No current concerns. Canada: Cancelled
MANCOZEB	M3	Angular leaf spot Anthracnose Downy mildew Gummy stem blight Septoria spot Alternaria leaf blight Powdery mildew	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)

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MANCOZEB   DIMETHOMORPH	M3 + 40	Downy mildew Anthracnose Gummy stem blight Alternaria leaf spot Septoria spot	MANCOZEB Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a>  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. <a href="#">Prioritised to be commenced by 2027.</a>  METALAXYL Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
MANCOZEB   METALAXYL-M	M3 + 4	Downy mildew Anthracnose Gummy stem blight Alternaria leaf spot Septoria spot	MANCOZEB Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a>  METALAXYL-M Australia: No current concerns.
MANCOZEB   SULFUR (S) AS WETTABLE SULFUR	M3 + M2	Downy mildew Anthracnose Gummy stem blight Septoria spot	MANCOZEB Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a>  SULFUR (S) AS WETTABLE SULFUR Australia: No current concerns.
MELALEUCA OIL	--	Powdery mildew	Australia: No current concerns

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METALAXYL	4	Damping off	Australia: No current concerns. Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
METALAXYL-M	4	Damping off	Australia: No current concerns.
METIRAM	M3	Downy mildew Gummy stem blight	Australia:APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> 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	--	<i>Powdery mildew (Podosphaera xanthii) Grey mould (Botrytis cinerea) Suppression only</i>	<i>Australia: No current concerns.</i>
OXADIXYL	4	Downy mildew Gummy stem blight	Australia: No current concerns. EU: Not approved
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.

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PROPAMOCARB HYDROCHLORIDE   FLUOPICOLIDE	28 + 43	Downy mildew	PROPAMOCARB HYDROCHLORIDE 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	Anthrachnose Downy mildew Gummy stem blight	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> EU: Not approved
PROPINEB   OXADIXYL	M3 + 4	Downy mildew Anthrachnose Gummy stem blight	PROPINEB Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> EU: Not approved  OXADIXYL Australia: No current concerns. EU: Not approved
PROQUINAZID	13	Powdery mildew	Australia: No current concerns.
PYDIFLUMETOFEN   DIFENOCONAZOLE	7 + 3	Alternaria leaf spot Gummy stem blight Powdery mildew	PYDIFLUMETOFEN Australia: No current concerns. Codex MRL: 0.4 mg/Kg EU: Pending Canada: In re-evaluation  DIFENOCONAZOLE Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Permit PER93402 Expiry date: 31/05/2027 Codex MRL: 0.2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation



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PYRIOFENONE	50	Powdery mildew	Australia: No current concerns. Codex MRL: 0.2 mg/Kg
STREPTOMYCES LYDICUS	--	Powdery mildew	Australia: No current concerns.
SULFUR	M2	Powdery mildew Rust Black Spot	Australia: No current concerns.
TEA TREE OIL	BM01	Powdery mildew	Australia: No current concerns.
TRIADIMEFON	3	Powdery mildew	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Codex MRL: 0.2 mg/Kg EU: Not approved Canada: Restricted use
TRIADIMENOL	3	Powdery mildew	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Codex MRL: 0.2 mg/Kg EU: Not approved Canada: Cancelled
ZINEB	M3	Downy mildew Anthracnose	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> 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
DIMETHENAMID-P	15	Australia: No current concerns. Canada: In re-evaluation
DIQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is 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
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> Canada: Cancelled
PARAQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is 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

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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.

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
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

## Squash - Agrichemical Regulatory Risk Assessment

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