

## Potato 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 **potato 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

## Potato - 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	Red tomato spider mite Vegetable leafminer  Permit PER90864 for the control of Potato Moth  Permit PER84249 for the control of Tomato Potato Psyllid	Australia: <a href="#">APVMA nominated for reconsideration and spray drift assessment.</a> Permit PER90864 Expiry date: 31/05/2030 Permit PER84249 Expiry date: 30/09/2026 Codex MRL: 0.005 mg/Kg Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
ACEPHATE	1B	Potato moth (Leafminer)	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
ACETAMIPRID	4A	Green peach aphid	Australia: APVMA: <a href="#">Currently under review.</a> Proposed regulatory decisions expected between December 2025 to October 2026. Canada: In re-evaluation USA: Under Registration Review (scheduled)
AFIDOPYROPEN	9D	Cabbage aphid Cotton aphid Currant lettuce aphid Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns. EU: Not approved
ALPHA-CYPERMETHRIN	3A	Permit PER12612 for the control of Garden weevil	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Permit PER12612 Expiry date: 30/04/2026 EU: Not approved

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Active Constituent	MoA Group	Pest	Risks and Comments
<i>Bacillus thuringiensis</i>	11A	Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)
CARBARYL	1A	Armyworms/cutworms European earwig Green vegetable bug <i>Helicoverpa</i> Leaf eating ladybirds Potato moth (Leafminer) Rutherglen bug Wingless grasshopper	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CHLORANTRANILIPROLE	28	<i>Helicoverpa</i> Potato moth (Leafminer)	Australia: No current concerns. Canada: In re-evaluation
CHLORPYRIFOS	1B	--	Australia: <a href="#">The chemical review was completed in September 2024.</a> Most uses in horticultural crops were removed. After 30 September 2025, products with previously approved labels must not be supplied. The only remaining approved use is in Brassica crops as specified on current labels. EU: Not approved Canada: Cancelled USA: Agricultural uses cancelled. Very few registrations as Restricted Use Pesticide.
CYANTRANILIPROLE	28	Silverleaf whitefly Cotton bollworm Potato tuber moth  Permit PER84805 Tomato Potato Psyllid	Australia: No current concerns. Permit PER84805 Expiry date: 31/08/2025 Codex MRL: 0.05 mg/Kg

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DIAZINON	1B	--	Australia: <a href="#">APVMA made a Final Decision on 2024</a> . 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 Jassids Leafhoppers Mites Redlegged earth mite Thrips Wingless grasshopper	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2029</a> . EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
FIPRONIL	2B	Mole crickets Whitefringed weevil Wireworms	Australia: APVMA: <a href="#">Currently under review</a> . Proposed Regulatory decision expected by April 2026. Codex MRL: 0.02 mg/Kg EU: Not approved USA: Under Registration Review (scheduled)
FLONICAMID	29	Cotton aphid Green peach aphid Potato aphid	Australia: No current concerns. Codex MRL: 0.01 mg/Kg
FLUAZAIINDOLIZINE	N-UN	Root Knot Nematode ( <i>Meloidogyne</i> spp.)	Australia: No current concerns. EU: Pending
FLUBENDIAMIDE	28	Cabbage white butterflies Cluster caterpillar Diamondback (Cabbage) moth <i>Helicoverpa</i> Potato moth (Leafminer)	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).
FLUENSULFONE	5	Root-knot nematode	Australia: No current concerns. Codex MRL: 0.8 mg/Kg

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FLUPYRADIFURONE	4D	Green peach aphid Silverleaf whitefly	Australia: No current concerns. Codex MRL: 0.05 mg/Kg
GAMMA-CYHALOTHRIN	--	Vegetable leafhopper	Australia: No current concerns. EU: Not approved UK: Withdrawn (2025).
HELICOVERPA ARMIGERA NPV	31	Helicoverpa	Australia: No current concerns.
IMIDACLOPRID	4A	Green peach aphid Silverleaf (Poinsettia) whitefly Silverleaf whiteflies	Australia: APVMA: <a href="#">Currently under review</a> . Proposed regulatory decisions expected between December 2025 to October 2026. EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
LAMBDA-CYHALOTHRIN	3A	Vegetable leafhopper  Permit PER84249 for the control of Tomato Potato Psyllid	Australia: No current concerns. Permit PER84249 Expiry date: 30/09/2026 EU: Approved, candidate for substitution.

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Active Constituent	MoA Group	Pest	Risks and Comments
METHOMYL	1A	Potato moth Potato looper  Permit PER82428 for the control of: Helicoverpa spp. Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including WFT  Permit PER84249 for the control of Tomato Potato Psyllid	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2026.</a> Permit PER82428 Expiry date: 31/01/2029 Permit PER84249 Expiry date: 30/09/2026 Codex MRL: 0.02 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PERMETHRIN	3A	Potato moth	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Codex MRL: 0.05 mg/Kg EU: Not approved
PHORATE	1B	Aphids Jassids Thrips Two-spotted (Red spider) mite Wireworms	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2026.</a> Codex MRL: 0.3 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PIRIMICARB	1A	Potato aphid	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: Cancelled
PYMETROZINE	9B	Green peach aphid	Australia: <a href="#">APVMA nominated for reconsideration and spray drift assessment.</a> EU: Not approved Canada: Cancelled

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SPINETORAM	5	Caterpillars Helicoverpa Lightbrown apple moth Loopers Potato moth (Leafminer)	Australia: No current concerns. Codex MRL: 0.01 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	Helicoverpa Lightbrown apple moth Loopers Potato moth (Leafminer)  Permit PER89870 for the control of Fall Armyworm	Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030 Codex MRL: 0.01 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Silverleaf (Poinsettia) whitefly	Australia: No current concerns. Codex MRL: 0.8 mg/Kg EU: Not approved Canada: In re-evaluation
SPODOPTERA FRUGIPERDA NPV		Permits PER90820 and PER91477 for the control of Fall Armyworm	Australia: No current concerns. Permit PER90820 Expiry date: 31/03/2027 Permit PER91477 Expiry date: 31/03/2027
SULFOXAFLOX	4C	Green peach aphid Tomato/ potato psyllid	Australia: No current concerns.
THIODICARB	1A	Helicoverpa	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> EU: Not approved USA: Under Registration Review (scheduled)
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
AMISULBROM	21	Pink rot Powdery scab	Australia: No current concerns.
AZOXYSTROBIN	11	Late (Irish) blight Rhizoctonia canker (Black scurf) Silver scurf Target spot (Early blight)	Australia: No current concerns. Codex MRL: 7 mg/Kg Canada: In re-evaluation
AZOXYSTROBIN   DIFENOCONAZOLE	11 + 3	Late (Irish) blight	AZOXYSTROBIN Australia: No current concerns. Codex MRL: 7 mg/Kg Canada: In re-evaluation  DIFENOCONAZOLE Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Codex MRL: 4 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
<i>Bacillus amyloliquefaciens</i> STRAIN QST 713	BM02	Rhizoctonia canker (Black scurf)	Australia: No current concerns.
BOSCALID	7	Sclerotinia rot Target spot (Early blight)	Australia: No current concerns. Canada: In re-evaluation
CHLORIDAZON	3	EARLY BLIGHT (TARGET SPOT)	Australia: No current concerns.
CHLOROTHALONIL	M5	Late (Irish) blight Target spot (Early blight)	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2028.</a> 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	Late (Irish) blight Target spot (Early blight) Pink rot	Australia: No current concerns.
CYAZOFAMID	21	Late (Irish) blight	Australia: No current concerns. Codex MRL: 0.01 mg/Kg Canada: In re-evaluation
CYPROCONAZOLE	3	Late (Irish) blight Target spot (Early blight)	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> EU: Not approved UK: Withdrawn (2024).
DIFENOCONAZOLE	3	Target spot (Early blight)	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Codex MRL: 4 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
DIMETHOMORPH	40	Late (Irish) blight Target spot (Early blight) Late (Irish) blight	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Not approved Canada: In re-evaluation
FLUAZINAM	29	Late (Irish) blight Sclerotinia rot Anthracnose (Black Dot)  PER96705 for the control of powdery scab	Australia: No current concerns. Permit PER96705 Expiry date: 31/10/2027 Canada: In re-evaluation

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Active Constituent	MoA Group	Pest	Risks and Comments
FLUAZINAM   AZOXYSTROBIN	29 + 11	Early Blight Late Blight	FLUAZINAM Australia: No current concerns. Canada: In re-evaluation  AZOXYSTROBIN Australia: No current concerns. Codex MRL: 7 mg/Kg Canada: In re-evaluation
FLUDIOXONIL	12	Anthrachnose (Black Dot) Common scab Dry rot Rhizoctonia canker (Black scurf) Silver scurf	Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Approved, candidate for substitution.
FLUDIOXONIL   SEDAXANE	12 + 7	Anthrachnose (Black Dot) Common scab Dry rot Gangrene Rhizoctonia canker (Black scurf) Silver scurf	FLUDIOXONIL Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Approved, candidate for substitution.  SEDAXANE Australia: No current concerns.
FLUTOLANIL	7	Rhizoctonia canker (Black scurf)	Australia: No current concerns.
HYDROGEN PEROXIDE   PEROXYACETIC ACID	M	Powdery scab Rhizoctonia canker (Black scurf)	Australia: No current concerns.
IMAZALIL	3	Dry rot Gangrene Silver scurf	Australia: No current concerns. Codex MRL: 9 mg/Kg
INPYRFLUXAM	7	Rhizoctonia solani – soil borne	Australia: No current concerns.

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Active Constituent	MoA Group	Pest	Risks and Comments
IODINE	M	Bactericide Fungi	Australia: No current concerns. Canada: Cancelled
IPRODIONE	2	Hypocotyl rot Rhizoctonia canker (Black scurf) Sclerotinia rot Target spot (Early blight)	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Not approved USA: Under Registration Review (scheduled)
MANCOZEB	M3	Fusarium seed piece decay Late (Irish) blight Seed piece breakdown Target spot (Early blight)	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)
MANCOZEB   AZOXYSTROBIN	M3 + 11	Early blight	MANCOZEB Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a>  AZOXYSTROBIN Australia: No current concerns. Codex MRL: 7 mg/Kg Canada: In re-evaluation
MANCOZEB   COPPER	M3 + M1	Early Blight Late Blight	MANCOZEB Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a>  COPPER Australia: No current concerns.
MANCOZEB   METALAXYL	M3 + 4	Early Blight Late Blight	MANCOZEB Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a>  METALAXYL Australia: No current concerns. Codex MRL: 0.02 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation

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Active Constituent	MoA Group	Pest	Risks and Comments
METALAXYL	4	Pink rot	Australia: No current concerns. Codex MRL: 0.02 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
METIRAM	M3	Early Blight Late 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.
METIRAM   PYRACLOSTROBIN	M3 +11	Early Blight Late Blight	METIRAM Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> EU: Not approved Canada: Only approved for foliar applications in potato crops.  PYRACLOSTROBIN Australia: No current concerns. Canada: In re-evaluation
PENCYCURON	20	Rhizoctonia canker (Black scurf)	Australia: No current concerns. EU: Not approved UK: Withdrawn (2021).
PENFLUFEN	7	Rhizoctonia canker (Black scurf)	Australia: No current concerns. EU: Not approved UK: Withdrawn (2025).
PENTHIOPYRAD	7	Alternaria leaf spots Powdery mildew	Australia: No current concerns. Codex MRL: 0.05 mg/Kg
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Permit PER94059 for the control of Pink rot	Australia: No current concerns. Permit PER94059 Expiry date: 30/11/2028
PROCYMIDONE	2	Sclerotinia rot Target spot (Early blight)	Australia: No current concerns. EU: Not approved

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Active Constituent	MoA Group	Pest	Risks and Comments
PROPAMOCARB   FLUOPICOLIDE	M3 + 43	Late blight	PROPAMOCARB HYDROCHLORIDE Australia: No current concerns.  FLUOPICOLIDE Australia: No current concerns EU: Approved, candidate for substitution.
PROPINEB	M3	Late (Irish) blight Target spot (Early blight)	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> EU: Not approved
PYDIFLUMETOFEN	7	Early blight	Australia: No current concerns. EU: Pending Canada: In re-evaluation
PYDIFLUMETOFEN   DIFENOCONAZOLE	7 + 3	Powdery mildew Target spot (Early blight)	PYDIFLUMETOFEN Australia: No current concerns. EU: Pending Canada: In re-evaluation  DIFENOCONAZOLE Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Codex MRL: 4 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
PYDIFLUMETOFEN   FLUDIOXONIL	7 + 12	Botrytis Sclerotinia	PYDIFLUMETOFEN Australia: No current concerns. EU: Pending Canada: In re-evaluation  FLUDIOXONIL Australia: No current concerns. Codex MRL: 5 mg/Kg EU: Approved, candidate for substitution.

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Active Constituent	MoA Group	Pest	Risks and Comments
PYRIMETHANIL	9	Early blight	Australia: No current concerns. Codex MRL: 0.05 mg/Kg Canada: In re-evaluation
QUINTOZENE	14	Rhizoctonia canker (Black scurf)	Australia: No current concerns. EU: Not approved
THIABENDAZOLE	1	Dry rot Gangrene Silver scurf	Australia: No current concerns. Codex MRL: 15 mg/Kg
TOLCLOFOS-METHYL	14	Rhizoctonia canker (Black scurf)	Australia: No current concerns. Codex MRL: 0.3 mg/Kg

### HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
2,2-DPA	0	Australia: No current concerns.
2,4-D	4	Australia: No current concerns. Codex MRL: 0.2 mg/Kg Canada: In re-evaluation USA: Under Registration Review (scheduled)
AMITROLE	34	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Canada: Cancelled
ASULAM	18	Australia: No current concerns EU: Not approved Canada: Cancelled

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ATRAZINE	5	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CARFENTRAZONE-ETHYL	14	Australia: No current concerns. Canada: In re-evaluation
CLETHODIM	1	Australia: No current concerns. Codex MRL: 0.5 mg/Kg
CLOMAZONE	13	Australia: No current concerns. Canada: In re-evaluation
CYANAZINE	5	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> EU: Not approved Canada: Cancelled
DICAMBA	4	Australia: <a href="#">APVMA nominated for reconsideration and spray drift assessment.</a> Canada: In re-evaluation USA: Under Registration Review (scheduled)
DIQUAT	22	Australia: APVMA: <a href="#">Currently under review.</a> Publication of the final regulatory decision is now expected in Mid 2026. Codex MRL: 0.1 mg/Kg EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
ETHYL DIPROPYLTHIOCARBAMATE	15	Australia: No current concerns. Canada: In re-evaluation
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> Canada: Cancelled
LINURON	5	Australia: No current concerns. EU: Not approved

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METOBROMURON	5	Australia: No current concerns. Canada: Cancelled
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: Cancelled
METRIBUZIN	5	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PARAQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is now expected in Mid 2026. Candidate chemical recommended to be listed to Rotterdam Convention. EU: Not approved Canada: Cancelled USA: Restricted use
PENDIMETHALIN	3	Australia: No current concerns. Permit PER93692 Expiry date: 31/05/2027 EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
PROMETRYN	5	Australia: No current concerns. EU: Not approved
QUIZALOFOP-P-ETHYL	1	Australia: No current concerns.
SETHOXYDIM	1	Australia: No current concerns. EU: Not approved Canada: Phase-Out
S-METOLACHLOR	15	Australia: No current concerns. EU: Not approved

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### FUMIGANTS – Mixed Function

Active Constituent	Use	Risks and Comments
CHLOROPICRIN + 1,3-DICHLOROPROPENE	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	<p>CHLOROPICRIN Australia: No current concerns. EU: Not approved USA: Restricted use</p> <p>1,3-DICHLOROPROPENE Australia: No current concerns. EU: Pending Canada: Cancelled</p>
DAZOMET	Control of bacterial spot ( <i>Xanthomonas</i> spp.) (suppression only). Soil insects and nematodes	<p>Australia: No current concerns. USA: Under Registration Review (scheduled)</p>
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.

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## Potato - Agrichemical Regulatory Risk Assessment

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

Active Constituent	Use	Risks and Comments
CHLORPROPHAM	Prevention of Sprouting	Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Not approved Canada: In re-evaluation
MALEIC HYDRAZIDE	Inhibits sprouting of tubers	Australia: No current concerns. Codex MRL: 50 mg/Kg Canada: In re-evaluation

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