

## Sweet potato Agrichemical Regulatory Risk Assessment

March 2024

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 chemicals 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 farm chemicals 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 prohibiting the use in the exporting country to ensure compliance, as breaches of MRLs could adversely affect market access.

The effects of the above are greater pressure placed on the availability and use of individual chemicals or chemical groups. As a consequence, it is possible that the number of approved agrichemical options available for use 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 sweet potatoes as well as current initiatives aimed at addressing identified pest management deficiencies.

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<b>R1</b>	Short-term: Critical concern over retaining access
<b>R2</b>	Medium-term: Maintaining access of significant concern
<b>R3</b>	Long-term: Potential issues associated with use - Monitoring required

Active Constituents	Chemical Group	Problem	Comments
<b>INSECT AND OTHER PESTS</b>			
1,3-dichloropropene +chloropicrin	<b>8B</b>	Nematodes	EU/UK: No authorisations in place
		Symphylids	
Abamectin	<b>6</b>	Leafminer/vegetable leafminer(PER81876)	APVMA: Nominated for spray drift label review Canada: Some uses amended, others cancelled EU: Use restricted to permanent greenhouses
		Tomato/ potato psyllid(PER84249)	
Afidopyropen	<b>9D</b>	Cabbage aphid	EU/UK: No authorisations in place
		Cotton aphid	
		Currant lettuce aphid	
		Green peach aphid	
		Silverleaf (Poinsettia) whitefly	
Bifenthrin	<b>3A</b>	Sweet potato weevil	Canada: Not authorised EU/UK: No authorisations in place
		Wireworms	
		Tomato/ potato psyllid (PER84249)	
Carbaryl	<b>1A</b>	Sweet potato weevil	Canada: Reviewed, large number of uses deleted Codex: Review scheduled, support uncertain EU/UK: No authorisations in place USA: Under review

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Active Constituents	Chemical Group	Problem	Comments
Chlorantraniliprole +thiamethoxam	28 + 4A	Brown sowthistle aphid	<p><u>Thiamethoxam</u>  <a href="#">APVMA: Under review</a>                      Canada: Some field uses cancelled or amended                      EU/UK: No authorisations in place                      USA: Re-registration with new risk mitigation measures</p>
		Cabbage aphid	
		Cabbage white butterfly	
		Cabbage-centre grub	
		Cluster caterpillar	
		Diamondback (Cabbage) moth	
		Green peach aphid	
		Green vegetable bug	
		Greenhouse whitefly	
		Helicoverpa	
		Leafhoppers	
		Lucerne leafroller	
		Onion (Cotton seedling) thrips	
		Potato moth	
		Psyllids (Lerps)	
		Silverleaf (Poinsettia) whitefly	
Chlorpyrifos	1B	Black field cricket	<p><u>APVMA: Proposed deletion of uses</u>                      Codex: MRLs deleted                      Canada: Cancellation of all uses.                      EU/UK: No authorisation in place                      USA: EPA decision to cancel use on food crops</p>
		Cutworms	
		Field crickets	
		Mole crickets	
		Spotted vegetable weevil	
		Vegetable weevil	
		Wingless grasshopper	
		Sweet potato weevil (PER14583)	
		Wireworms (PER14583)	

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Active Constituents	Chemical Group	Problem	Comments
Cyantraniliprole	<b>28</b>	Tomato/ potato psyllid(PER84805)	
Cyromazine	<b>17</b>	Leafminers (PER81867)	EU/UK: No authorisations in place
Dazomet		Nematodes	
Dimethoate	<b>1B</b>	Aphids	Codex: No MRL EU/UK: No authorisations in place
		Bugs	
		Green vegetable bug	
		Jassids	
		Leafhoppers	
		Mites	
		Redlegged earth mite	
		Thrips	
		Wingless grasshopper	
Emamectin benzoate	<b>6</b>	Cabbage white butterfly	EU: Candidate for substitution
		Cluster caterpillar	
		Diamondback (Cabbage) moth	
		Helicoverpa	
		Looper caterpillars	
Ethyl formate	<b>8A</b>	Sugarcane bud (Detritus) moth	EU/UK: No authorisations in place
Fipronil	<b>2B</b>	Mole crickets	APVMA: <a href="#">Under review</a> Codex: Re-evaluation underway EU/UK: No authorisations in place USA: Under review
		Whitefringed weevil	
		Wireworms	
Fluazaindolizine	<b>N-UN</b>	Root-knot nematodes	EU: Pending
Flubendiamide	<b>28</b>	Cabbage white butterfly	EU: Authorisation expires August 2024
		Cluster caterpillar	
		Diamondback (Cabbage) moth	
		Helicoverpa	
		Potato moth	

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Active Constituents	Chemical Group	Problem	Comments
Fluensulfone		Root-knot nematodes	EU/UK: No authorisations in place
Flupyradifurone	4D	Green peach aphid	EU: Under review
		Silverleaf (Poinsettia) whitefly	
Helicoverpa NPV	31	Helicoverpa	
Imidacloprid	4A	Silverleaf (Poinsettia) whitefly	<a href="#">APVMA: Under review</a> Canada: Field uses cancelled or amended EU/UK: No authorisations in place, USA: Re-registration with new risk mitigation measures
Methomyl	1A	Helicoverpa	<a href="#">APVMA: nominated for review</a> Canada: Re-evaluation completed. Majority of uses removed EU/UK: No authorisations in place USA: Under review
		Cluster caterpillar(PER82428)	
		Cucumber moth(PER82428)	
		Loopers(PER82428)	
		Rutherglen bug(PER82428)	
		Thrips(PER82428)	
		Webworms(PER82428)	
Western flower thrips PER82428)			
Oxamyl	1A	Root-knot nematodes	EU: Candidate for substitution
Phorate	1B	Aphids	<a href="#">APVMA: nominated for review</a> Canada: Under review EU/UK: No authorisations in place
		Jassids	
		Thrips	
		Two-spotted (Red spider) mite	
		Wireworms	
Pirimicarb	1A	Cotton aphid	Codex: JMPR re-evaluation scheduled EU: Candidate for substitution

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Active Constituents	Chemical Group	Problem	Comments
Pyriproxyfen	<b>7C</b>	Silverleaf (Poinsettia) whitefly	
Spinetoram	<b>5</b>	Caterpillars	EU: Authorisation expires June 2024
		Helicoverpa	
		Lightbrown apple moth	
		Loopers	
		Potato moth	
		Tomato/ potato psyllid (PER84757)	
		Leafminers (PER91155)	
Spinosad	<b>5</b>	Helicoverpa	
		Lightbrown apple moth	
		Loopers	
		Potato moth	
		Leafminers (PER90928)	
Spirotetramat	<b>23</b>	Silverleaf (Poinsettia) whitefly	EU: Authorisation expires April 2024
		Tomato/ potato psyllid(PER84245)	
Spodoptera NPV	<b>31</b>	Fall army worm(PER90820)	
Spodoptera MNPV	<b>31</b>	Fall army worm(PER91477)	
Sulfoxaflor	<b>4C</b>	Green peach aphid	USA: Pollinator concerns EU: Restricted to permanent glasshouses only

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<b>DISEASES</b>			
1,3-dichloropropene +chloropicrin	<b>8B</b>	Fusarium wilt	EU/UK: No authorisations in place
		Pythium root rot	
		Rhizoctonia	
Boscalid	<b>7</b>	Sclerotinia rot	Canada: Under review
Calcium hypochlorite	-	Bacterial soft rot	
Dazomet	-	Damping off	
		Rhizoctonia	
Iodine	<b>M</b>	Bactericide	
Penthiopyrad	<b>7</b>	Alternaria leaf spots	
		Powdery mildew	
Pydiflumetofen + difenoconazole	<b>7 + 3</b>	Early blight	Difenoconazole: <a href="#">APVMA: nominated for review</a> EU: Candidate for substitution USA: Under review
		Cercospora leaf spot	
		Powdery mildew	
Thiabendazole	<b>1</b>	Root rot (PER12047)	
		Scurf (PER12047)	

## Sweet potato Agrichemical Regulatory Risk Assessment

Active Constituents	Chemical Group	Comments
<b>WEEDS</b>		
Chlorthal-dimethyl	<b>3</b>	EU/UK: No authorisations in place
Diquat	<b>22</b>	<a href="#">APVMA: Currently under review</a> EU/UK: No authorisations in place
Glyphosate	<b>9</b>	Ongoing issues internationally
Fluazifop-P (PER82556)	<b>1</b>	
Metolachlor /S-metolachlor	<b>15</b>	<u>Metolachlor:</u> EU/UK: No authorisations in place <u>S-metolachlor:</u> EU: Proposed non-renewal
Sethoxydim	<b>1</b>	EU/UK: No authorisations in place

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