

## Spring onion/Shallot 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 would 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 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 spring onions and shallots as well as current initiatives aimed at addressing identified pest management deficiencies.

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

Active Constituents	Chemical Group	Problem	Comments
<b>INSECT AND OTHER PESTS</b>			
Abamectin	<b>6</b>	Two-spotted mite Vegetable leafminer (PER81876)	APVMA: Nominated for spray drift label review Canada: Some uses amended, others cancelled EU: Use restricted to permanent greenhouses
Alpha-cypermethrin	<b>3A</b>	Onion thrips(PER14457) Red-legged earth mite(PER14457)	EU/UK: No authorisations in place
Chlorpyrifos	<b>1B</b>	Black field crickets Cutworms Field crickets Mole crickets Spotted vegetable weevil Vegetable weevil Wingless grasshopper	<a href="#">APVMA: Proposed deletion of uses</a> Codex: All Codex MRLs revoked Canada: Cancellation of all uses. EU/UK: No authorisation in place USA: EPA decision to cancel use on food crops
Cytraniliprole	<b>28</b>	Onion thrips Vegetable leafminer (PER90387)	
Diazinon	<b>1B</b>	Onion seedling maggot Thrips (PER82551)	<a href="#">APVMA: Proposed deletion of uses</a> EU/UK: No authorisation in place Codex: Codex MRLs deleted
Flonicamid	<b>29</b>	Onion thrips (PER89185) Western flower thrips (PER89185)	
Isocycloseram	<b>30</b>	Onion thrips Plague thrips	EU/UK: No authorisations in place

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Active Constituents	Chemical Group	Problem	Comments
Lambda-cyhalothrin	<b>3A</b>	Looper caterpillars (PER14471)	EU: Candidate for substitution
		Onion seedling maggot (PER14471)	
		Onion thrips (PER14471)	
		Plague thrips (PER14471)	
		Red-legged earth mite (PER14471)	
		Rutherglen bugs (PER14471)	
Malathion/Maldison	<b>1B</b>	Onion thrips(PER13653)	<a href="#">APVMA: Under review</a> Codex: Re-evaluation scheduled EU: Use restricted to permanent greenhouses USA: Under review, label use patterns amended
Methomyl	<b>1A</b>	Western flower thrips(PER14890)	<a href="#">APVMA: nominated for review</a> Canada: Re-evaluation completed. Majority of uses removed EU/UK: No authorisations in place USA: Under review
Petroleum oil	<b>UNM</b>	Aphids(PER12221)	
		Green mirid(PER12221)	
		Green vegetable bug(PER12221)	
		Grey cluster bug(PER12221)	
		Leafhoppers(PER12221)	
		Mites(PER12221)	
		Rutherglen bugs(PER12221)	
		Thrips(PER12221)	
Phorate	<b>1B</b>	Aphids (PER8930)	<a href="#">APVMA: nominated for review</a> Canada: Under review EU/UK: No authorisations in place
		Jassids (PER8930)	
		Mites (PER8930)	
		Onion seedling maggot (PER8930)	
		Thrips (PER8930)	
Pirimicarb	<b>1A</b>	Aphids	Codex: JMPR re-evaluation scheduled EU: Candidate for substitution
		Green peach aphid	
		Onion aphid	

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Active Constituents	Chemical Group	Problem	Comments
Spinetoram	5	Onion thrips	EU: Authorisation expires June 2024
		Western flower thrips	
Spirotetramat	23	Onion thrips	EU: Authorisation expires April 2024
		Plague thrips	
		Tomato thrips	
		Western flower thrips	

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<b>DISEASES</b>			
Ametoctradin + dimethomorph	<b>45 + 40</b>	Downy mildew	<u>Dimethomorph</u> EU: Under review
Azoxystrobin	<b>11</b>	White rot	Canada: Review proposed
Chlorothalonil	<b>M5</b>	Purple blotch	<a href="#">APVMA: nominated for review</a>
		Botrytis grey mould (PER82895)	Canada: Cancellation of uses proposed
		Downy mildew (PER82895)	EU/UK: No authorisation in place USA: Under review
Copper	<b>M1</b>	Downy mildew (PER14842)	EU: Candidate for substitution
Cyprodinil +fludioxonil	<b>9 + 12</b>	Black mould	<u>Cyprodinil</u> Canada: Under review
		Botrytis grey mould	EU: Candidate for substitution <u>Fludioxonil</u> EU: Under review, & candidate for substitution
Dimethomorph	<b>40</b>	Botrytis rot(PER14473)	EU: Under review
		Downy mildew(PER14473)	
		Purple blotch(PER14473)	
Fluopicolide	<b>43</b>	Downy mildew	EU: Candidate for substitution
Fluopyram + tebuconazole	<b>7 + 3</b>	White rot	Tebuconazole <a href="#">APVMA: nominated for review</a> EU: Candidate for substitution
Mancozeb	<b>M3</b>	Purple blotch	<a href="#">APVMA: nominated for review</a>
		Botrytis rot(PER14473)	Canada: Many uses cancelled
		Downy mildew (PER14473)	Codex: To be reviewed EU/UK: No authorisations in place
Metalaxyl/metalaxyl-M	<b>4</b>	Downy mildew	<u>Metalaxyl</u> EU: Candidate for substitution <u>Metalaxyl-M</u> EU: Restricted use approval
Oxathiapiprolin	<b>49</b>	Downy mildew	
Penthiopyrad	<b>7</b>	Botrytis blight	
		Purple blotch	

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Peroxyacetic acid	<b>M</b>	Downy mildew	
		Neck and bulb rot	
Phosphorous acid	<b>33</b>	Downy mildew(PER13698)	
Propamocarb-HCl	<b>28</b>	Downy mildew	
Triadimenol	<b>3</b>	White rot(PER14906)	<a href="#">APVMA: nominated for review</a> Canada: No authorisation in place EU/UK: No authorisations in place USA: Registration cancelled

Active Constituents	Chemical Group	Comment
<b>WEEDS</b>		
Clethodim (PER82459)	<b>1</b>	Codex: MRLs proposed for deletion
Chlorthal-dimethyl	<b>3</b>	EU/UK: No authorisations in place
Fluazifop-P (PER82556)	<b>1</b>	
Glyphosate	<b>9</b>	Ongoing issues internationally
Ioxynil	<b>6</b>	EU/UK: No authorisations in place
Linuron (PER89645)	<b>5</b>	Canada: Cancellation of many uses EU/UK: No authorisations in place
Methabenzthiazuron (PER14742)	<b>5</b>	EU/UK: No authorisations in place
Metolachlor/ S-metolachlor	<b>15</b>	<u>Metolachlor:</u> EU/UK: No authorisations in place <u>S-metolachlor:</u> EU: No authorisations in place
Pendimethalin	<b>3</b>	EU: Candidate for substitution
Propachlor (PER12008)	<b>15</b>	EU/UK: No authorisations in place

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