

## Dried grape Agrichemical Regulatory Risk Assessment

September 2023

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 requiring 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 so as to ensure compliance, as a 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. 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 grapes as well as any current initiatives aimed at addressing identified pest management deficiencies.

## Dried Grape Agrichemical Regulatory Risk Assessment

|           |   |
|-----------|---|
| <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> |

| Problem                      | Active Constituents              | Chemical Group | Comment   |
|------------------------------|----------------------------------|----------------|---|
| <b>INSECT AND MITE PESTS</b> |                                  |                |   |
| <b>Aphids</b>                |                                  |                |   |
| Aphids                       | Pyrethrins                       | <b>3A</b>      |   |
| <b>Beetles</b>               |                                  |                |   |
| African black beetle         | Chlorpyrifos                     | <b>1B</b>      | <a href="#">APVMA: Under review</a><br>Codex: All MRLs revoked<br>Canada: Cancellation of all uses.<br>EU: No authorisation in place<br>USA: EPA decision to cancel use on food crops |
| Apple weevil                 | Alpha-cypermethrin (Non-bearing) | <b>3A</b>      | EU: Withdrawal of approval, grace period expires December 2022  |
|                              | Tetraniliprole                   | <b>28</b>      | EU: No authorisation  |
| Circulio beetle              | Alpha-cypermethrin (Non-bearing) | <b>3A</b>      | EU: Withdrawal of approval, grace period expires December 2022  |
| Fig longicorn/ trunk borer   | Bifenthrin                       | <b>3A</b>      | Canada: Not authorised<br>EU: No authorisation in place   |
| Fuller's rose weevil         | Tetraniliprole                   | <b>28</b>      | EU: No authorisation  |

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| Problem  | Active Constituents   | Chemical Group | Comment   |
|--|---|----------------|---|
| Garden weevil  | Abamectin + Chlorantraniliprole                               | 6 + 28         | <u>Abamectin</u><br>APVMA: Nominated for spray drift label review<br>EU: Restricted use to permanent greenhouses  |
|  | Alpha-cypermethrin (Non-bearing)                              | 3A             | EU: No authorisation  |
|  | Esfenvalerate   | 3A             | EU: Candidate for substitution  |
|  | Indoxacarb  | 22A            | Canada: No authorisations<br>EU: No authorisation<br>UK: No authorisation   |
|  | Tetraniliprole  | 28             | EU: No authorisation  |
| <b>FRUIT FLY</b>   |   |                |   |
| Fruit flies (Mediterranean fruit fly & Queensland fruit fly) | Clothianidin  | 4A             | <u>APVMA: Under review</u><br>Canada: Some field uses cancelled or amended<br>EU: No authorisations<br>USA: Re-registration with new risk mitigation measures |
|  | Dimethoate (PER13859)<br>After harvest orchard clean-up spray | 1B             | Codex: No MRL<br>EU: No authorisations  |
|  | Fipronil (Trap toxicant)                                      | 2B             | <u>APVMA: Under review</u><br>Codex: Re-evaluation completed, many MRLs withdrawn<br>EU: No authorisation in place<br>USA: Under review                       |
|  | Lambda-cyhalothrin (PER12961 – SA Biosecurity) (Soil drench)  | 3A             | EU: Candidate for substitution  |
|  | MagMED/Deltamethrin (PER92548)                                | 3A             |   |
|  | Malathion (cover spray & bait spray)                          | 1B             | <u>APVMA: Under review</u><br>Codex: Re-evaluation scheduled 2025/26<br>EU: Restricted use to permanent greenhouses   |

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| Problem   | Active Constituents              | Chemical Group | Comment  |
|---|----------------------------------|----------------|--|
| Fruit flies<br>(Mediterranean fruit fly & Queensland fruit fly) | Pyrethrins                       | 3A             | Canada: Under review   |
|   | Tetraniliprole (Medfly)          | 2B             | EU: No authorisation   |
|   | Trichlorfon (PER12439)           | 1B             | <a href="#">APVMA: nominated for review</a><br>Codex: No MRLs<br>EU: Not authorised<br>US: No MRLs   |
| <b>CATERPILLARS</b>   |                                  |                |  |
| Caterpillars  | Pyrethrins                       | 3A             | Canada: Under review   |
| Cutworms  | Alpha-cypermethrin (non-bearing) | 3A             | EU: No authorisation   |
|   | Carbaryl                         | 1A             | Canada: Reviewed, large number of uses deleted<br>Codex: Toxicology review scheduled, support uncertain<br>EU: Not Authorised<br>USA: Under review |
| Fall armyworm   | Spinosad (PER89870)              | 5              |  |
| Grapevine hawk moth   | Methomyl                         | 1A             | <a href="#">APVMA: nominated for review</a><br>Canada: Majority of uses removed<br>EU: No authorisations<br>USA: Under review                      |

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| Problem        | Active Constituents             | Chemical Group | Comment   |
|----------------|---------------------------------|----------------|---|
| Grapevine moth | Abamectin + Chlorantraniliprole | 6 + 28         | Abamectin<br>APVMA: Nominated for spray drift label review<br>EU: Restricted use to permanent greenhouses   |
|                | Chlorantraniliprole             | 28             |   |
|                | Chlorpyrifos                    | 1B             | <a href="#">APVMA: Under review</a><br>Codex: All MRLs revoked<br>Canada: Cancellation of all uses.<br>EU: No authorisation in place<br>USA: EPA decision to cancel use on food crops |
|                | Eamectin benzoate               | 6              | EU: Candidate for substitution  |
|                | Indoxacarb                      | 22A            | Canada: No authorisations<br>EU: No authorisation<br>UK: No authorisation   |
|                | Maldison                        | 1B             | <a href="#">APVMA: Under review</a><br>Codex: Re-evaluation scheduled 2025/26<br>EU: Restricted use to permanent greenhouses  |
|                | Methomyl                        | 1A             | <a href="#">APVMA: nominated for review</a><br>Canada: Majority of uses removed<br>EU: No authorisations<br>USA: Under review   |
|                | Spinetoram                      | 5              |   |
|                | Spinosad                        | 5              |   |
|                | Tetraniliprole                  | 28             | EU: No authorisation  |
|                | Trichlorfon                     | 1B             | <a href="#">APVMA: nominated for review</a><br>Codex: No MRLs<br>EU: Not authorised<br>US: No MRLs  |

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| Problem   | Active Constituents             | Chemical Group       | Comment   |
|---|---------------------------------|----------------------|---|
| Lightbrown apple moth                                     | Abamectin + Chlorantraniliprole | 6 + 28               | Abamectin<br>APVMA: Nominated for spray drift label review<br>EU: Restricted use to permanent greenhouses   |
|   | Acetamiprid + pyriproxyfen      | 4A + 7C              | Acetamiprid<br><a href="#">APVMA: Under review</a>  |
|   | Pyrethrins                      | 3A                   | Canada: Under review  |
|   | Chlorantraniliprole             | 28                   |   |
|   | Chlorpyrifos                    | 1B                   | <a href="#">APVMA: Under review</a><br>Codex: All MRLs revoked<br>Canada: Cancellation of all uses.<br>EU: No authorisation in place<br>USA: EPA decision to cancel use on food crops |
|   | Emamectin benzoate              | 6                    | EU: Candidate for substitution  |
|   | Ethyl formate (post-harvest)    | 8A                   |   |
|   | Indoxacarb                      | 22A                  | Canada: No authorisations<br>EU: No authorisation<br>UK: No authorisation   |
|   | Methomyl                        | 1A                   | <a href="#">APVMA: nominated for review</a><br>Canada: Majority of uses removed<br>EU: No authorisations<br>USA: Under review   |
|   | Methoxyfenozide                 | 18                   | EU: Proposed restricted authorisation & Candidate for substitution  |
|   | Spinetoram                      | 5                    |   |
|   | Spinosad                        | 5                    |   |
|   | Tebufenozide                    | 18                   |   |
| Tetraniliprole  | 28                              | EU: No authorisation |   |
| Pheromone (tetradecadienyl acetate +tetradecenyl acetate) | -                               |                      |   |

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| Problem                     | Active Constituents                               | Chemical Group | Comment   |
|-----------------------------|---|----------------|---|
| <b>GRASSHOPPERS/LOCUSTS</b> |   |                |   |
| Australian plague locust    | Chlorpyrifos                                      | 1B             | <a href="#">APVMA: Under review</a><br>Codex: All MRLs revoked<br>Canada: Cancellation of all uses.<br>EU: No authorisation in place<br>USA: EPA decision to cancel use on food crops |
|                             | Diazinon  | 1B             | <a href="#">APVMA: Under review</a><br>EU: No authorisation<br>Codex: Withdrawal of Codex MRLs recommended  |
|                             | Fenitrothion                                      | 1B             | EU: Not authorised  |
|                             | <i>Metarhizium anisopliae</i> var. <i>acridum</i> | UNF            |   |
|                             | Maldison/Malathion                                | 1B             | <a href="#">APVMA: Under review</a><br>Codex: Re-evaluation scheduled 2025/26<br>EU: Restricted use to permanent greenhouses  |
| Crickets                    | Carbaryl  | 1A             | Canada: Reviewed, majority of uses cancelled<br>Codex: Toxicology review scheduled, support uncertain   |
| Grasshoppers                | Carbaryl  | 1A             | EU: No authorisation<br>USA: Under review   |
|                             | <i>Metarhizium anisopliae</i> var. <i>acridum</i> | UNF            |   |
| Inland katydid              | Indoxacarb  | 22A            | Canada: No authorisations<br>EU: No authorisation<br>UK: No authorisation   |

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| Problem                  | Active Constituents                               | Chemical Group | Comment  |
|--------------------------|---|----------------|--|
| Migratory locust         | Chlorpyrifos                                      | 1B             | <a href="#">APVMA: Under review.</a><br>Codex: All MRLs revoked<br>Canada: Cancellation of all uses.<br>EU: No authorisation in place<br>USA: EPA decision to cancel use on food crops |
|                          | Fenitrothion                                      | 1B             | EU: Not authorised   |
|                          | Maldison/Malathion                                | 1B             | <a href="#">APVMA: Under review</a><br>Codex: Re-evaluation scheduled 2025/26<br>EU: Restricted use to permanent greenhouses   |
| Small plague grasshopper | Fenitrothion                                      | 1B             | EU: Not authorised   |
| Spur-throated locust     | Chlorpyrifos                                      | 1B             | <a href="#">APVMA: Under review.</a><br>Codex: All MRLs revoked<br>Canada: Cancellation of all uses.<br>EU: No authorisation in place<br>USA: EPA decision to cancel use on food crops |
|                          | Fenitrothion                                      | 1B             | EU: Not authorised   |
|                          | Maldison/Malathion                                | 1B             | <a href="#">APVMA: Under review</a><br>Codex: Re-evaluation scheduled 2025/26<br>EU: Restricted use to permanent greenhouses   |
| Wingless grasshopper     | Indoxacarb  | 22A            | Canada: No authorisations<br>EU: No authorisation<br>UK: No authorisation  |
|                          | Fenitrothion                                      | 1B             | EU: Not authorised   |
|                          | <i>Metarhizium anisopliae</i> var. <i>acridum</i> | UNF            |  |



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| Problem                 | Active Constituents             | Chemical Group | Comment  |
|-------------------------|---------------------------------|----------------|--|
| <b>MITES</b>            |                                 |                |  |
| Bunch/vine mite         | Pyridaben                       | <b>21A</b>     |  |
|                         | Sulfur                          | <b>M2</b>      |  |
| European red mite       | Cyflumetofen                    | <b>25A</b>     |  |
|                         | Paraffinic oil/ petroleum oil   | <b>UN</b>      |  |
| Grape leaf blister mite | Paraffinic oil/ petroleum oil   | <b>UN</b>      |  |
|                         | Sulfur                          | <b>UN</b>      |  |
| Grape leaf rust mite    | Abamectin + chlorantraniliprole | <b>6 + 28</b>  | <u>Abamectin</u><br>APVMA: Nominated for spray drift label review<br>EU: Restricted use to permanent greenhouses                                 |
|                         | Fenbutatin oxide (PER13378)     | <b>12B</b>     | <a href="#">APVMA: Nominated for review</a><br>Codex: To be reviewed, registrant support uncertain<br>EU: No authorisations<br>USA: Under review |
|                         | Sulfur                          | <b>UN</b>      |  |
| Two-spotted mite        | Abamectin + chlorantraniliprole | <b>6 + 28</b>  | <u>Abamectin</u><br>APVMA: Nominated for spray drift label review<br>EU: Restricted use to permanent greenhouses                                 |
|                         | Bifenazate (PER14492)           | <b>20D</b>     | Canada: Under review<br>EU: Proposed non-renewal   |
|                         | Cyflumetofen                    | <b>25A</b>     |  |
|                         | Ethyl formate                   | <b>8A</b>      |  |
|                         | Etoxazole                       | <b>10B</b>     | EU: Uses restricted to greenhouse ornamentals only & Candidate for substitution  |
|                         | Fenbutatin oxide (PER13378)     | <b>12B</b>     | <a href="#">APVMA: Nominated for review</a><br>Codex: To be reviewed, registrant support uncertain<br>EU: No authorisations<br>USA: Under review |
|                         | Paraffinic oil/ petroleum oil   | <b>UN</b>      |  |

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| Problem                | Active Constituents                      | Chemical Group | Comment   |
|------------------------|--|----------------|---|
| <b>PLANT BUGS</b>      |  |                |   |
| Leafhoppers            | Pyrethrins                               | <b>3A</b>      | Canada: Under review  |
| Rutherglen bug         | Pyrethrins                               | <b>3A</b>      | Canada: Under review  |
| <b>SCALE/MEALYBUGS</b> |  |                |   |
| Grapevine scale        | Acetamiprid + pyriproxyfen               | <b>4A + 7C</b> | Acetamiprid<br><a href="#">APVMA: Under review</a>  |
|                        | Chlorpyrifos                             | <b>1B</b>      | <a href="#">APVMA: Under review</a><br>Codex: All MRLs revoked<br>Canada: Cancellation of all uses.<br>EU: No authorisation in place<br>USA: EPA decision to cancel use on food crops |
|                        | Maldison/Malathion                       | <b>1B</b>      | <a href="#">APVMA: Under review</a><br>Codex: Re-evaluation scheduled 2025/26<br>EU: Restricted use to permanent greenhouses  |
|                        | Paraffinic oil/ petroleum oil            | <b>UN</b>      |   |
|                        | Pyriproxyfen (Nursery stock non-bearing) | <b>7C</b>      |   |
|                        | Spirotetramat                            | <b>23</b>      |   |

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| Problem             | Active Constituents           | Chemical Group | Comment   |
|---------------------|-------------------------------|----------------|---|
| Longtailed mealybug | Acetamiprid + pyriproxyfen    | <b>4A + 7C</b> | Acetamiprid<br><a href="#">APVMA: Under review</a>  |
|                     | Buprofezin                    | <b>16</b>      | EU: MRLs set to limit of quantification   |
|                     | Clothianidin                  | <b>4A</b>      | <a href="#">APVMA: Under review</a><br>Canada: Some field uses cancelled or amended<br>EU: No authorisations<br>USA: Re-registration with new risk mitigation measures                |
|                     | Ethyl formate (Post-harvest)  | <b>8A</b>      |   |
|                     | Spirotetramat                 | <b>23</b>      |   |
|                     | Sulfoxaflor                   | <b>4C</b>      | USA: Pollinator concerns  |
| Mealybug            | <b>Chlorpyrifos</b>           | <b>1B</b>      | <a href="#">APVMA: Under review</a><br>Codex: All MRLs revoked<br>Canada: Cancellation of all uses.<br>EU: No authorisation in place<br>USA: EPA decision to cancel use on food crops |
|                     | Diazinon                      | <b>1B</b>      | <a href="#">APVMA: Under review</a><br>EU: No authorisation in place<br>Codex: Withdrawal of Codex MRLs recommended   |
|                     | Maldison/Malathion            | <b>1B</b>      | <a href="#">APVMA: Under review</a><br>Codex: Re-evaluation scheduled 2025/26<br>EU: Restricted use to permanent greenhouses  |
|                     | Paraffinic oil/ petroleum oil | <b>UN</b>      |   |
| Scale insects       | Paraffinic oil/ petroleum oil | <b>UN</b>      |   |

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| Problem                | Active Constituents          | Chemical Group | Comment  |
|------------------------|------------------------------|----------------|--|
| Tuber mealybug         | Buprofezin                   | 16             | EU: MRLs set to limit of quantification  |
|                        | Chlorpyrifos                 | 1B             | <a href="#">APVMA: Under review.</a><br>Codex: All MRLs revoked<br>Canada: Cancellation of all uses.<br>EU: No authorisation in place<br>USA: EPA decision to cancel use on food crops |
|                        | Spirotetramat                | 23             |  |
| <b>THRIPS</b>          |                              |                |  |
| Northern plague thrips | Spirotetramat                | 23             |  |
| Plague thrips          | Pyrethrins                   | 3A             | Canada: Under review   |
|                        | Ethyl formate (Post-harvest) | 8A             | EU: No authorisations  |
|                        | Spirotetramat                | 23             |  |
|                        | Tau-fluvalinate              | 3A             |  |
| Western flower thrips  | Ethyl formate (Post-harvest) | 8A             | EU: No authorisations  |

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| Problem            | Active Constituents                                       | Chemical Group | Comment   |
|--------------------|---|----------------|---|
| <b>OTHER PESTS</b> |   |                |   |
| European earwig    | Indoxacarb  | <b>22A</b>     | Canada: No authorisations<br>EU: No authorisation<br>UK: No authorisation   |
| European wasp      | Fipronil – Baits and trap<br>(PER86492/PER89402/PER88071) | <b>2B</b>      | <a href="#">APVMA: Under review</a><br>Codex: Re-evaluating<br>EU: No authorisation in place<br>USA: Under review             |
| Phylloxera         | Sodium Metabisulfite (PER11748)                           | <b>UN</b>      |   |
| Red back spider    | Ethyl formate (Post-harvest)                              | <b>8A</b>      | EU: No authorisation  |
|                    | Methomyl (PER85594)                                       | <b>1A</b>      | <a href="#">APVMA: nominated for review</a><br>Canada: Majority of uses removed<br>EU: No authorisations<br>USA: Under review |
|                    | Sulphur Dioxide & Carbon Dioxide (PER85499)               | <b>UN</b>      |   |
| Slaters            | Mineral iron  | <b>UN</b>      |   |
| Termites           | Fipronil (PER89329)<br>(NT Only)                          | <b>2B</b>      | <a href="#">APVMA: Under review</a><br>Codex: Re-evaluating<br>EU: No authorisation in place<br>USA: Under review             |
| Wingless cockroach | Indoxacarb  | <b>22A</b>     | Canada: No authorisations<br>EU: No authorisation<br>UK: No authorisation   |

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| <b>Problem</b>   | <b>Active Constituents</b>     | <b>Chemical Group</b> | <b>Comments</b>                                    |
|------------------|--------------------------------|-----------------------|--|
| Slugs and snails | Copper complex                 | <b>UN</b>             |  |
|                  | Iron-EDTA complex/Mineral iron | <b>UN</b>             |  |
|                  | Metaldehyde                    | <b>UN</b>             | UK: Outdoor use to be deleted from March 2022      |
|                  | Methiocarb                     | <b>1A</b>             | Canada: No authorisations<br>EU: No authorisations |

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| Problem                | Active Constituents | Chemical Group | Comment  |
|------------------------|---------------------|----------------|--|
| <b>DISEASES</b>        |                     |                |  |
| Black spot/Anthracnose | Captan              | M4             | EU: Under review proposed restriction to use in permanent greenhouses only<br>USA: Under review  |
|                        | Chlorothalonil      | M5             | <a href="#">APVMA: nominated for review</a><br>Canada: Proposed cancellation of all uses<br>EU: Not authorised.<br>UK: No authorisation<br>USA: Under review |
|                        | Copper              | M1             | EU: Candidates for substitution  |
|                        | Dithianon           | M9             | EU: Restricted use to non-edible crops   |
|                        | Mancozeb            | M3             | <a href="#">APVMA: nominated for review</a><br>Canada: Many uses cancelled<br>Codex: To be reviewed 2024/25<br>EU: Not authorised                            |
|                        | Metiram             | M3             | <a href="#">APVMA: nominated for review</a><br>Canada: All foliar uses, except potato, cancelled<br>Codex: To be reviewed 2024/25<br>EU: Under review        |
|                        | Thiram              | M3             | <a href="#">APVMA: nominated for review</a><br>Canada: Proposed cancelling of all foliar uses<br>Codex: To be reviewed 2024/25<br>EU: Not authorised         |
|                        | Ziram               | M3             | <a href="#">APVMA: nominated for review</a><br>Canada: Cancelling of all uses<br>Codex: To be reviewed 2024/25<br>EU: Candidate for substitution             |
| Botryosphaeria dieback | Tebuconazole        | 3              | <a href="#">APVMA: nominated for review</a><br>Canada: Under review<br>EU: Candidate for substitution<br>USA: Under review                                   |
| Problem                | Active Constituents | Chemical Group | Comment  |

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|                              |                                   |   |  |
|------------------------------|-----------------------------------|---|--|
| Botrytis rot /Grey mould     | <i>Aureobasidium pullulans</i>    | <b>BM02</b>   |  |
|                              | Azoxystrobin                      | <b>11</b>   | Canada: Review proposed  |
|                              | Azoxystrobin + tebuconazole       | <b>11 + 3</b>   | <u>Tebuconazole</u><br><a href="#">APVMA: nominated for review</a><br>Canada: Under review<br>EU: Candidate for substitution<br>USA: Under review n          |
|                              | <i>Bacillus amyloliquefaciens</i> | <b>BM02</b>   |  |
|                              | Boscalid                          | <b>7</b>  | Canada: Under review   |
|                              | Captan                            | <b>M4</b>   | EU: Under review proposed restriction to use in permanent greenhouses only<br>USA: Under review  |
|                              | Chlorothalonil                    | <b>M5</b>   | <a href="#">APVMA: nominated for review</a><br>Canada: Proposed cancellation of all uses<br>EU: Not authorised.<br>UK: No authorisation<br>USA: Under review |
|                              | Cyprodinil + fludioxonil          | <b>9</b>  | Cyprodinil<br>Canada: Under review<br>EU: Candidate for substitution<br>Fludioxonil<br>EU: Under review & Candidate for substitution                         |
|                              | Fenhexamid                        | <b>17</b>   |  |
|                              | Fenpyrazamine                     | <b>17</b>   |  |
| Fludioxonil + pydiflumetofen | <b>12 + 7</b>                     | <u>Fludioxonil</u><br>EU: Under review & Candidate for substitution<br><u>Pydiflumetofen</u><br>EU: Authorisation pending |  |



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| Problem                  | Active Constituents                    | Chemical Group | Comment  |
|--------------------------|--|----------------|--|
| Botrytis rot /Grey mould | Fluopyram + tebuconazole               | <b>7 + 3</b>   | Tebuconazole<br><a href="#">APVMA: nominated for review</a><br>Canada: Under review<br>EU: Under review. Candidate for substitution<br>USA: Under review |
|                          | Iprodione                              | <b>2</b>       | Canada: Majority of food crop uses deleted<br>Codex: Review scheduled<br>EU: Not authorised<br>USA: Proposed deletion or restriction of uses             |
|                          | Plant oils (eugenol, geraniol, thymol) | <b>1</b>       |  |
|                          | Polyoxin-D                             | <b>19</b>      | EU: No authorisation   |
|                          | Pyrimethanil                           | <b>9</b>       | Canada: Under review   |
|                          | Sodium metabisulfite                   | <b>NC</b>      | EU: No authorisation   |
|                          | Tea tree oil                           | <b>46</b>      |  |
| Downy mildew             | Ametoctradin + dimethomorph            | <b>45 + 40</b> | <u>Dimethomorph</u><br>EU: Under review  |
|                          | Amisulbrom + Copper                    | <b>21 + M1</b> | Copper<br>EU: Candidates for substitution  |
|                          | Azoxystrobin                           | <b>11</b>      | Canada: Review proposed  |
|                          | Azoxystrobin + dimethomorph            | <b>11 + 40</b> | <u>Dimethomorph</u><br>EU: Under review  |
|                          | Azoxystrobin + tebuconazole            | <b>11 + 3</b>  | Tebuconazole<br><a href="#">APVMA: nominated for review</a><br>Canada: Under review<br>EU: Candidate for substitution<br>USA: Under review               |
|                          | Captan                                 | <b>M4</b>      | EU: Under review proposed restriction to use in permanent greenhouses only<br>USA: Under review  |

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| Problem         | Active Constituents                   | Chemical Group       | Comment  |
|-----------------|---------------------------------------|----------------------|--|
| Downy mildew    | Chlorothalonil                        | M5                   | <a href="#">APVMA: nominated for review</a><br>Canada: Proposed cancellation of all uses<br>EU: Not authorised.<br>UK: No authorisation<br>USA: Under review |
|                 | Copper                                | M1                   | EU: Candidates for substitution  |
|                 | Dithianon                             | M9                   | EU: Restricted use to non-edible crops   |
|                 | Fluoxapiprolin                        | 49                   | EU: Authorisation pending  |
|                 | Hydrogen peroxide + peroxyacetic acid | M                    |  |
|                 | Mancozeb                              | M3                   | <a href="#">APVMA: nominated for review</a><br>Canada: Review completed, many uses cancelled<br>Codex: To be reviewed 2025/26<br>EU: Not authorised.         |
|                 | Mandipropamid                         | 40                   |  |
|                 | Metalaxyl/ Metalaxyl-M                | 4                    | <u>Metalaxyl</u><br>EU: Candidate for substitution<br><u>Metalaxyl-M</u><br>EU: Restricted use approval  |
|                 | Metiram                               | M3                   | <a href="#">APVMA: nominated for review</a><br>Canada: All foliar uses, except potato, cancelled<br>Codex: To be reviewed 2025/26<br>EU: Under review        |
|                 | Oxadixyl                              | 4                    | EU: No authorisation in place  |
|                 | Phosphonic acid                       | 33                   |  |
|                 | Potassium bicarbonate                 | M2                   | EU: No authorisation   |
|                 | Propineb                              | M3                   | <a href="#">APVMA: nominated for review</a><br>EU: No authorisation in place<br>Codex: To be reviewed 2025/26  |
|                 | Pyraclostrobin                        | 11                   | USA: Interim review decision Label amendments proposed   |
| Trifloxystrobin | 11                                    | Canada: Under review |  |

## Dried grape Agrichemical Regulatory Risk Assessment

| Problem                    | Active Constituents          | Chemical Group | Comment   |
|----------------------------|------------------------------|----------------|---|
|                            | Zineb                        | <b>M3</b>      | <a href="#">APVMA: nominated for review</a><br>Codex: To be reviewed 2025/26<br>EU: No authorisation in place   |
| Eutypa dieback             | Cyproconazole                | <b>3</b>       | <a href="#">APVMA: nominated for review</a><br>EU: Not authorised   |
|                            | Fluazinam                    | <b>29</b>      | Canada: Under review  |
|                            | Iodocarb                     | <b>28</b>      | EU: Not authorised  |
|                            | Tebuconazole                 | <b>3</b>       | Tebuconazole<br><a href="#">APVMA: nominated for review</a><br>Canada: Under review<br>EU: Candidate for substitution<br>USA: Under review            |
|                            | <i>Trichoderma harzianum</i> | <b>BM02</b>    |   |
| Phomopsis cane & leaf spot | Captan                       | <b>M4</b>      | EU: Under review proposed restriction to use in permanent greenhouses only<br>USA: Under review   |
|                            | Copper                       | <b>M1</b>      | EU: Candidates for substitution   |
|                            | Dithianon                    | <b>M9</b>      | EU: Restricted use to non-edible crops  |
|                            | Fluazinam                    | <b>29</b>      | Canada: Under review  |
|                            | Mancozeb                     | <b>M3</b>      | <a href="#">APVMA: nominated for review</a><br>Canada: Review completed, many uses cancelled<br>Codex: To be reviewed 2025/26<br>EU: Not authorised.  |
|                            | Metiram                      | <b>M3</b>      | <a href="#">APVMA: nominated for review</a><br>Canada: All foliar uses, except potato, cancelled<br>Codex: To be reviewed 2025/26<br>EU: Under review |

## Dried grape Agrichemical Regulatory Risk Assessment

| Problem             | Active Constituents                   | Chemical Group | Comment  |
|---------------------|---------------------------------------|----------------|--|
| Powdery mildew      | Azoxystrobin                          | 11             | Canada: Review proposed  |
|                     | Azoxystrobin + tebuconazole           | 11 + 3         | <u>Tebuconazole</u><br><a href="#">APVMA: nominated for review</a><br>Canada: Under review<br>EU: Candidate for substitution<br>USA: Under review    |
|                     | Boscalid                              | 7              | Canada: Under review   |
|                     | Copper                                | M1             | EU: Candidates for substitution  |
|                     | Cyflufenamid                          | U6             |  |
|                     | Difenoconazole                        | 3              | <a href="#">APVMA: nominated for review</a><br>EU: Candidate for substitution<br>USA: Under review   |
|                     | Florylpicoxamid                       | 21             | EU: Authorisation pending  |
|                     | Fludioxonil + pydiflumetofen          | 12 + 7         | <u>Fludioxonil</u><br>EU: Under review & Candidate for substitution<br><u>Pydiflumetofen:</u><br>EU: Authorisation Pending                           |
|                     | Fluopyram + tebuconazole              | 7 + 3          | <u>Tebuconazole</u><br><a href="#">APVMA: nominated for review</a><br>Canada: Under review<br>EU: Candidate for substitution<br>USA: Under review    |
|                     | Hydrogen peroxide + peroxyacetic acid | M              |  |
|                     | Mancozeb                              | M3             | <a href="#">APVMA: nominated for review</a><br>Canada: Review completed, many uses cancelled<br>Codex: To be reviewed 2024/25<br>EU: Not authorised. |
| Mefentrifluconazole | 3                                     |                |  |
| Metrafenone         | U8                                    |                |  |

## Dried grape Agrichemical Regulatory Risk Assessment

| Problem         | Active Constituents   | Chemical Group  | Comment  |
|-----------------|-----------------------|---|--|
| Powdery mildew  | Myclobutanil          | 3   | <a href="#">APVMA: nominated for review</a><br>EU: Not authorised  |
|                 | Penconazole           | 3   | <a href="#">APVMA: nominated for review</a>  |
|                 | Polyoxin-D            | 19  | EU: No authorisation   |
|                 | Potassium bicarbonate | M2  | EU: No authorisation   |
|                 | Proquinazid           | 13  |  |
|                 | Pydiflumetofen        | 7   | EU: Pending  |
|                 | Pyraclostrobin        | 11  | USA: Interim review decision, Label amendments proposed  |
|                 | Pyriofenone           | 50  |  |
|                 | Quinoxifen            | 13  | EU: No authorisation   |
|                 | Spiroxamine           | 5   |  |
|                 | Sulfur                | M2  |  |
|                 | Tea tree oil          | 46  |  |
|                 | Tebuconazole          | 3   | <u>Tebuconazole</u><br><a href="#">APVMA: nominated for review</a><br>Canada: Under review<br>EU: Candidate for substitution<br>USA: Under review    |
|                 | Tetraconazole         | 3   | <a href="#">APVMA: nominated for review</a>  |
|                 | Triadimefon           | 3   | <a href="#">APVMA: nominated for review</a><br>EU: No authorisation in place<br>USA: Under review. Proposed use restrictions on turf and ornamentals |
| Triadimenol     | 3                     | <a href="#">APVMA: nominated for review</a><br><u>Canada:</u> No authorisation in place<br>EU: No authorisation in place<br>USA: Registration cancelled |  |
| Trifloxystrobin | 11                    | Canada: Under review  |  |

## Dried grape Agrichemical Regulatory Risk Assessment

| <b>Other problems</b>          |                                     |           |                      |
|--------------------------------|-------------------------------------|-----------|----------------------|
| Storage rots                   | Sodium metabisulfite (post-harvest) | <b>NC</b> | EU: No authorisation |
| <b>PLANT GROWTH REGULATORS</b> |                                     |           |                      |
| Plant growth regulators        | Calcium nitrate (PER86553)          |           | EU: No authorisation |
|                                | Chlormequat                         |           |                      |
|                                | Cyanamide                           |           | EU: No authorisation |
|                                | Ethephon (PER87879)                 |           |                      |
|                                | Gibberellic acid                    |           |                      |
|                                | Forchlorfenuron                     |           |                      |
|                                | S-abscisic acid                     |           |                      |

## Dried grape Agrichemical Regulatory Risk Assessment

| Active Constituents           | Chemical Group | Comment   |
|-------------------------------|----------------|---|
| <b>WEEDS</b>                  |                |   |
| 2,2-DPA                       | <b>0</b>       | EU: No authorisation  |
| Acetic acid                   | <b>0</b>       |   |
| Amitrole                      | <b>34</b>      | <a href="#">APVMA: nominated for review</a><br>EU: No authorisation   |
| Carfentrazone-ethyl           | <b>14</b>      |   |
| Dichlobenil                   | <b>29</b>      | EU: No authorisation  |
| Diquat                        | <b>22</b>      | <a href="#">APVMA: Currently under review</a><br>EU: No authorisation   |
| Fluazifop-P                   | <b>1</b>       |   |
| Flumioxazin                   | <b>14</b>      | EU: Candidate for substitution  |
| Glufosinate                   | <b>10</b>      | Canada: Review proposed<br>EU: No authorisation in place  |
| Glyphosate                    | <b>9</b>       | Ongoing issues internationally<br>EU: Under review  |
| Haloxyfop-P                   | <b>1</b>       | EU: Not authorised  |
| Isoxaben                      | <b>29</b>      |   |
| Norflurazon                   | <b>12</b>      | EU: No authorisation  |
| Oryzalin                      | <b>3</b>       | EU: No authorisation  |
| Oxyfluorfen                   | <b>14</b>      | EU: Candidate for substitution<br>USA: Interim review decision Label amendments proposed  |
| Pelargonic acid/Nonanoic acid | <b>0</b>       |   |
| Paraquat                      | <b>22</b>      | <a href="#">APVMA: Currently under review</a><br>Canada: Review initiated<br>EU: No authorisation in place<br>Rotterdam Convention - nomination |
| Pendimethalin                 | <b>5</b>       | EU: Candidate for substitution  |

## Dried grape Agrichemical Regulatory Risk Assessment

| Active Constituents | Chemical Group | Comment   |
|---------------------|----------------|---|
| Quizalofop-P        | 1              | Canada: Under re-evaluation<br>EU: Candidate for substitution       |
| Simazine            | 5              | <a href="#">APVMA: nominated for review</a><br>EU: No authorisation |
| Trifluralin         | 3              | EU: No authorisation  |

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