Resistance management recommendations and proposals for fungicides not included in current working groups as requested by manufacturers

<table>
<thead>
<tr>
<th>COMPOUND</th>
<th>Ametoctradin</th>
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<tbody>
<tr>
<td>GROUP NAME</td>
<td>QoSI (quinone outside Inhibitor, stigmatellin binding type)</td>
</tr>
<tr>
<td>FRAC MoA CODE</td>
<td>45</td>
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<tr>
<td>TARGET SITE AND CODE</td>
<td>C8: inhibition of Complex III</td>
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<tr>
<td>Uses</td>
<td>Control of oomycetes in various crops</td>
</tr>
<tr>
<td>Resistance Status</td>
<td><em>Plasmopara viticola</em>: single cases of target site and non-target site resistance reported. <em>Phytophthora infestans</em>, <em>Pseudoperonospora</em> sp., <em>Peronospora</em> sp., <em>Bremia lactucae</em>: no resistance cases reported.</td>
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</table>
| Resistance Mechanism | For *Plasmopara viticola* only:  
  - Target-site mutation in cytochrome b (S34L).  
  - Non-target site resistance via alternative oxidase overexpression. |
| Recommendations      | Resistance management strategies might differ in regions or countries because of different disease pressure and national guidelines.  
**Recommendations for grapes:**  
Apply ametoctradin containing products in a preventative manner.  
Apply a maximum of 3 applications per season for control of grape downy mildew control.  
Use always in mixture (ready-mix or tank-mix) with an effective downy mildew partner.  
In order to reduce selection pressure, use in alternation with a non cross-resistant product is recommended.  
**Recommendation for potatoes and vegetables:**  
Apply ametoctradin containing products in a preventative manner.  
Always follow product specific recommendations for resistance management. |
| Requested by / date  | BASF SE / June 2021   |
| FRAC SC approval / date | 06 July 2021 |