Resistance management recommendations and proposals for Fungicides not included in current working groups

<table>
<thead>
<tr>
<th>Compound</th>
<th>Cymoxanil</th>
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<tbody>
<tr>
<td>Chemistry</td>
<td>Cyanoacetamide-oxime</td>
</tr>
<tr>
<td>FRAC MoA Code</td>
<td>27</td>
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<tr>
<td>TARGET SITE &amp; CODE</td>
<td>Unknown</td>
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</tbody>
</table>

**Uses**: *Plasmopara viticola* in grapes, *Phytophthora infestans* in potato and tomato; Downy mildews in hops, pea, cucurbits, lettuce, bulbs, spinach, leek, artichoke and other vegetables.

**Resistance Status**: Resistance documented in *P. viticola* with reduced sensitivity reported from different grape-growing regions. No resistance reported in *P. infestans* and other downy mildews.

- Low to medium risk.

**Resistance Mechanism**: Unknown

**Recommendations**:

- Use always in mixture with another fungicide active on the target diseases.
- Apply preventatively.
- The number of applications of cymoxanil-containing products should be restricted:
  - Potato and Tomato: 6,
  - Hops and other crops: 4.
- On grapes, the number of applications should not exceed 33% of the total period of protection against downy mildew.
- Always follow product specific label recommendations for resistance management.

**Requested by / date**: Jean-Luc Genet, Greg Kemmitt, 4th of January 2021

**FRAC SC approval / date**: February 12th 2021