### List of chemicals with CIB & RC label claim for use in grapes

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Chemical recommended for major disease &amp; pest</th>
<th>Nature of chemical</th>
<th>Dose on formulation basis</th>
<th>EU MRL (mg/kg)</th>
<th>Pre-harvest Interval (PHI in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Downy Mildew</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Mancozeb 75 WP</td>
<td>NS</td>
<td>1.5-2.0 g/L</td>
<td>5.0</td>
<td>66</td>
</tr>
<tr>
<td>2</td>
<td>Propineb 70 WP</td>
<td>NS</td>
<td>3.0 g/L</td>
<td>1.0</td>
<td>75 (avoid using after fruit set)</td>
</tr>
<tr>
<td>3</td>
<td>COC 50 WP</td>
<td>NS</td>
<td>2.5 g/L, 2.4 g/L</td>
<td>50.0</td>
<td>42 (avoid using after fruit set)</td>
</tr>
<tr>
<td>4</td>
<td>Copper hydroxide 53.8 DF</td>
<td>NS</td>
<td>1.5 g/L</td>
<td>50.0</td>
<td>12</td>
</tr>
<tr>
<td>5</td>
<td>Fosetyl Al 80 WP</td>
<td>S</td>
<td>1.4-2.0 g/L</td>
<td>100.0</td>
<td>30</td>
</tr>
<tr>
<td>6</td>
<td>Metalaxyl + Mancozeb 8 + 64 WP</td>
<td>S + NS</td>
<td>2.5 g/L</td>
<td>2.0 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>7</td>
<td>Metalaxyl-M + Mancozeb 4 + 64 WP</td>
<td>S + NS</td>
<td>2.5 g/L</td>
<td>2.0 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>8</td>
<td>Cymoxanil + Mancozeb 8 + 64 WP</td>
<td>S + NS</td>
<td>2.0 g/L</td>
<td>0.3 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>9.*</td>
<td>Ametoctradin 27 + Dimethomorph 20.27 SC</td>
<td>NS + S</td>
<td>800-1000 mL/ha</td>
<td>6.0 + 3.0</td>
<td>34</td>
</tr>
<tr>
<td>10.*</td>
<td>Dimethomorph 50 WP</td>
<td>S</td>
<td>0.50 to 0.75 g/L</td>
<td>3.0</td>
<td>34</td>
</tr>
<tr>
<td>11.*</td>
<td>Fenamidone + Mancozeb 10 + 50 WG</td>
<td>S + NS</td>
<td>2.5 to 3 g/L</td>
<td>0.6 + 5.0</td>
<td>85</td>
</tr>
<tr>
<td>12.*</td>
<td>Azoxystrobin 23 SC</td>
<td>S</td>
<td>494 mL/ha</td>
<td>3.0</td>
<td>7</td>
</tr>
<tr>
<td>13.*</td>
<td>Iprovalicarb + Propineb 5.5 + 61.25 WP</td>
<td>S + NS</td>
<td>2.25 g/L</td>
<td>2.0 + 1.0</td>
<td>75</td>
</tr>
<tr>
<td>14.*</td>
<td>Famoxadone 16.6 % + Cymoxanil 22.1 % SC</td>
<td>S + NS</td>
<td>500 mL/ha</td>
<td>2.0 + 0.30</td>
<td>27</td>
</tr>
<tr>
<td>15.*</td>
<td>Kresoxim methyl 44.3 SC</td>
<td>S</td>
<td>600-700 mL/ha</td>
<td>1.5</td>
<td>30</td>
</tr>
<tr>
<td>16.*</td>
<td>Pyraclostrobin 5% + Metiram 55% 60 WG</td>
<td>S + NS</td>
<td>1.50-1.75 kg/ha</td>
<td>1.0 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Chemical recommended for major disease &amp; pest</td>
<td>Nature of chemical</td>
<td>Dose on formulation basis</td>
<td>EU MRL (mg/kg)</td>
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<td>--------</td>
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<td>----------------------------------</td>
</tr>
<tr>
<td>17.</td>
<td>Fluopicolide 4.44% + Fosetyl-Al 66.67% WG</td>
<td>S</td>
<td>2.25 to 2.5 kg/ha</td>
<td>2.0 + 100</td>
<td>40</td>
</tr>
<tr>
<td>18.*</td>
<td>Mandipropamid 23.4% SC</td>
<td>NS</td>
<td>0.8 mL/L</td>
<td>2.0</td>
<td>5</td>
</tr>
<tr>
<td>19.*</td>
<td>Azoxystrobin 8.3% + Mancozeb 66.7% WG</td>
<td>S + NS</td>
<td>1500 g/ha</td>
<td>3.0 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>20.</td>
<td>Copper Sulphate 47.15% + Mancozeb 30% WDG</td>
<td>NS</td>
<td>5000 g/ha</td>
<td>50.0 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>21.*</td>
<td>Dimethomorph 12% + Pyraclostrobin 6.7% WG</td>
<td>S + S</td>
<td>1500 mL/ha</td>
<td>3.0 + 1.0</td>
<td>55</td>
</tr>
<tr>
<td>22.*</td>
<td>Azoxystrobin 11% + Tebuconazole 18.3% w/w</td>
<td>S + S</td>
<td>750 mL/ha</td>
<td>3.0 + 0.5</td>
<td>60</td>
</tr>
<tr>
<td>23.</td>
<td>Cyazofamid 34.5% SC</td>
<td>NS</td>
<td>200 mL/ha</td>
<td>2.0</td>
<td>50</td>
</tr>
<tr>
<td>24.</td>
<td>Benalaxyl-M 4% + Mancozeb 65% WP</td>
<td>S + NS</td>
<td>2750 g/ha</td>
<td>0.3 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>25.*</td>
<td>Fenamidone 4.44% + fosetyl-Al 66.66% WDG</td>
<td>S</td>
<td>2000-2500 g/ha</td>
<td>0.6 + 100</td>
<td>90</td>
</tr>
<tr>
<td>26.*</td>
<td>Metiram 44% + Dimethomorph 9% WG</td>
<td>NS + S</td>
<td>2500 g/ha</td>
<td>5.0 + 3.0</td>
<td>66</td>
</tr>
<tr>
<td>27.*</td>
<td>Kresoxim methyl 18% + Mancozeb 54% WP (72 % WP)</td>
<td>S + NS</td>
<td>1500 g /ha</td>
<td>1.5 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>28.</td>
<td>Amisulbrom 17.7% SC w/w (20% SC w/v)</td>
<td>NS</td>
<td>375 mL/ha</td>
<td>0.5</td>
<td>59</td>
</tr>
<tr>
<td>29.</td>
<td>Captan 50% WP</td>
<td>NS</td>
<td>2500 g/ha</td>
<td>0.03*</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td><strong>Powdery Mildew</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12a.*</td>
<td>Azoxystrobin 23 SC</td>
<td>S</td>
<td>494 mL / ha</td>
<td>3.0</td>
<td>7</td>
</tr>
<tr>
<td>15a.*</td>
<td>Kresoxim methyl 44.3 SC</td>
<td>S</td>
<td>600-700 mL/ha</td>
<td>1.5</td>
<td>30</td>
</tr>
<tr>
<td>22a.*</td>
<td>Azoxystrobin 11% + Tebuconazole 18.3% w/w</td>
<td>S + S</td>
<td>750 mL/ha</td>
<td>3.0 + 0.50</td>
<td>60</td>
</tr>
<tr>
<td>30.*</td>
<td>Penconazole 10 EC</td>
<td>S</td>
<td>0.50 mL/L</td>
<td>0.5</td>
<td>50</td>
</tr>
<tr>
<td>31.*</td>
<td>Hexaconazole 5 EC</td>
<td>S</td>
<td>1.0 mL/L</td>
<td>0.01</td>
<td>60</td>
</tr>
<tr>
<td>32.*</td>
<td>Myclobutanil 10 WP</td>
<td>S</td>
<td>0.40 g/L</td>
<td>1.0</td>
<td>30</td>
</tr>
<tr>
<td>33.*</td>
<td>Flusilazole 40 EC</td>
<td>S</td>
<td>25 mL/200L</td>
<td>0.01</td>
<td>60</td>
</tr>
<tr>
<td>34.*</td>
<td>Difenoconazole 25EC</td>
<td>S</td>
<td>0.50 mL / L</td>
<td>3.0</td>
<td>45</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Chemical recommended for major disease &amp; pest</td>
<td>Nature of chemical</td>
<td>Dose on formulation basis</td>
<td>EU MRL (mg/kg)</td>
<td>Pre-harvest Interval (PHI in days)</td>
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<td>----------------------------------</td>
</tr>
<tr>
<td>35.</td>
<td>Sulfur 40 SC, 55.16 SC, 80 WP, 80 WDG, 85 WP</td>
<td>NS</td>
<td>3.0 mL, 3.0 mL, 2.50 g, 1.87-2.50 g, 1.50-2.0 g/L, respectively</td>
<td>No MRL required</td>
<td>PHI not applicable</td>
</tr>
<tr>
<td>36.*</td>
<td>Tetraconazole 3.8 EW</td>
<td>S</td>
<td>0.75 mL/L</td>
<td>0.5</td>
<td>30</td>
</tr>
<tr>
<td>37.*</td>
<td>Tebuconazole 50% + Trifloxystrobin 25% WG</td>
<td>S + S</td>
<td>0.175 g/L</td>
<td>0.5 + 3.0</td>
<td>34</td>
</tr>
<tr>
<td>38.*</td>
<td>Fluopyram 200+Tebuconazole 200SC</td>
<td>S + S</td>
<td>0.563 mL/L</td>
<td>1.5 + 0.5</td>
<td>60</td>
</tr>
<tr>
<td>39.</td>
<td>Metrafenone 50% SC</td>
<td>S</td>
<td>250 mL/ha</td>
<td>7.0</td>
<td>22</td>
</tr>
<tr>
<td>40.</td>
<td>Fluxapyroxad 25% + Pyraclostrobin 25% SC</td>
<td>S + S</td>
<td>200 mL/ha</td>
<td>3.0 + 1.0</td>
<td>60</td>
</tr>
<tr>
<td>41.*</td>
<td>Boscald 25.2% + Pyraclostrobin 12.8% w/w WG</td>
<td>S + S</td>
<td>500-600 mL/ha</td>
<td>5.0 + 1.0</td>
<td>55</td>
</tr>
<tr>
<td>42.</td>
<td>Meptyldinocap 35.7% EC</td>
<td>NS</td>
<td>308.6-342.8 mL/ha</td>
<td>1.0</td>
<td>50</td>
</tr>
<tr>
<td>43*</td>
<td>Fluxapyroxad 75 g/L + Difenconazole 50g/L SC</td>
<td>S + S</td>
<td>800 mL/ha</td>
<td>3.0 + 3.0</td>
<td>45</td>
</tr>
<tr>
<td>44.</td>
<td>Cyflufenamid 5% EW</td>
<td>S</td>
<td>500 mL/ha</td>
<td>0.2</td>
<td>50</td>
</tr>
<tr>
<td>III</td>
<td>Anthracnose</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2a.</td>
<td>Propineb 70 WP</td>
<td>NS</td>
<td>3.0 g/L</td>
<td>1.0</td>
<td>75</td>
</tr>
<tr>
<td>3a.</td>
<td>COC 50 WP</td>
<td>NS</td>
<td>2.5 g/L, 2.40 g/L</td>
<td>50.0</td>
<td>42 (avoid using after fruit set)</td>
</tr>
<tr>
<td>19a.</td>
<td>Azoxystrobin 8.3% + Mancozeb 66.7% WG</td>
<td>S + NS</td>
<td>1500 g/ha</td>
<td>3.0 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>20a.</td>
<td>Copper Sulphate 47.15% + Mancozeb 30%WDG</td>
<td>NS + NS</td>
<td>5000 g/ha</td>
<td>50.0 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>27a.</td>
<td>Kresoxim methyl 18% + Mancozeb 54% WP (72 % WP)</td>
<td>S + NS</td>
<td>1500 g /ha</td>
<td>1.5 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>38a.</td>
<td>Fluopyram 200 + Tebuconazole 200SC</td>
<td>S + S</td>
<td>0.563 mL/L</td>
<td>1.5 + 0.5</td>
<td>60</td>
</tr>
<tr>
<td>45.</td>
<td>Carbendazim 50 WP, 46.27 SC</td>
<td>S</td>
<td>1.0 g/L, 1.0 mL/L</td>
<td>0.30</td>
<td>50</td>
</tr>
<tr>
<td>46.</td>
<td>Thiophanate methyl 70 WP</td>
<td>S</td>
<td>0.71-0.95 g/L</td>
<td>0.10</td>
<td>50 (Use of Thiophanate methyl should be avoided after flowering stage)</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Chemical recommended for major disease &amp; pest</td>
<td>Nature of chemical</td>
<td>Dose on formulation basis</td>
<td>EU MRL (mg/kg)</td>
<td>Pre-harvest Interval (PHI in days)</td>
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<td>----------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>47.</td>
<td>Carbendazim 12% + Mancozeb 63% WP</td>
<td>S + NS</td>
<td>1500 g/ha</td>
<td>0.30 + 5.0</td>
<td>66</td>
</tr>
<tr>
<td>48.</td>
<td>Kasugamycin 5% + Copper Oxychloride 45% WP</td>
<td>S + NS</td>
<td>750 g/ha</td>
<td>0.01 + 50.0</td>
<td>70 (Use should be avoided after flowering stage)</td>
</tr>
</tbody>
</table>

### IV Bacterial Leaf Spot

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Chemical recommended for major disease &amp; pest</th>
<th>Nature of chemical</th>
<th>Dose on formulation basis</th>
<th>EU MRL (mg/kg)</th>
<th>Pre-harvest Interval (PHI in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>48a.</td>
<td>Kasugamycin 5% + Copper Oxychloride 45% WP</td>
<td>S + NS</td>
<td>750 g/ha</td>
<td>0.01 + 50.0</td>
<td>70 (Use should be avoided after flowering stage)</td>
</tr>
</tbody>
</table>

### V Flea beetle

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Chemical recommended for major disease &amp; pest</th>
<th>Nature of chemical</th>
<th>Dose on formulation basis</th>
<th>EU MRL (mg/kg)</th>
<th>Pre-harvest Interval (PHI in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>49.</td>
<td>Imidacloprid 17.8 SL</td>
<td>S</td>
<td>0.30-0.40 mL/L</td>
<td>1.0</td>
<td>60 (Use of imidacloprid should be avoided during pre-flowering and flowering stage)</td>
</tr>
<tr>
<td>50.</td>
<td>Lambda-cyhalothrin 4.9 CS</td>
<td>NS</td>
<td>0.25-0.50 mL/L</td>
<td>0.08</td>
<td>45</td>
</tr>
</tbody>
</table>

### VI Thrips

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Chemical recommended for major disease &amp; pest</th>
<th>Nature of chemical</th>
<th>Dose on formulation basis</th>
<th>EU MRL (mg/kg)</th>
<th>Pre-harvest Interval (PHI in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>51.</td>
<td>Emamectin benzoate 05 SG</td>
<td>NS</td>
<td>0.22 g/L</td>
<td>0.05</td>
<td>25</td>
</tr>
<tr>
<td>52.</td>
<td>Fipronil 80 WG</td>
<td>NS</td>
<td>0.05-0.0625 g/L</td>
<td>0.005</td>
<td>75 (only one application before flowering stage)</td>
</tr>
<tr>
<td>53.</td>
<td>Spinetoram 11.7% SC</td>
<td>S</td>
<td>300 mL/ha</td>
<td>0.5</td>
<td>10</td>
</tr>
<tr>
<td>54.</td>
<td>Spinosad 45% SC</td>
<td>NS</td>
<td>250 mL/ha</td>
<td>0.5</td>
<td>15</td>
</tr>
<tr>
<td>55.</td>
<td>Cyantraniliprole 10 OD</td>
<td>S</td>
<td>0.70 mL/L</td>
<td>1.5</td>
<td>60</td>
</tr>
</tbody>
</table>

### VII Mealybugs

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Chemical recommended for major disease &amp; pest</th>
<th>Nature of chemical</th>
<th>Dose on formulation basis</th>
<th>EU MRL (mg/kg)</th>
<th>Pre-harvest Interval (PHI in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>56.</td>
<td>Buprofezin 25 SC</td>
<td>NS</td>
<td>1.00-1.50 mL/L</td>
<td>0.01</td>
<td>65</td>
</tr>
<tr>
<td>57.</td>
<td>Methomyl 40 SP</td>
<td>S</td>
<td>1.25 g/L</td>
<td>0.01</td>
<td>75 (only one application before flowering stage)</td>
</tr>
<tr>
<td>58.</td>
<td>Clothianidin 50% WDG</td>
<td>S</td>
<td>500 g/ha</td>
<td>0.70</td>
<td>60 (for use as soil drenching)</td>
</tr>
<tr>
<td>59.</td>
<td>Spirotetramat 15.31% w/w OD</td>
<td>S</td>
<td>700 mL/ha</td>
<td>2.0</td>
<td>60</td>
</tr>
</tbody>
</table>

### VIII Jassids

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Chemical recommended for major disease &amp; pest</th>
<th>Nature of chemical</th>
<th>Dose on formulation basis</th>
<th>EU MRL (mg/kg)</th>
<th>Pre-harvest Interval (PHI in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>58a.</td>
<td>Clothianidin 50% WDG</td>
<td>S</td>
<td>500 g/ha</td>
<td>0.700</td>
<td>60 (for use as soil drenching)</td>
</tr>
</tbody>
</table>

### IV Mite

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Chemical recommended for major disease &amp; pest</th>
<th>Nature of chemical</th>
<th>Dose on formulation basis</th>
<th>EU MRL (mg/kg)</th>
<th>Pre-harvest Interval (PHI in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60.</td>
<td>Abamectin 1.9% (w/w) EC</td>
<td>Limited systemic; Translaminar action</td>
<td>0.75 mL/L</td>
<td>0.01</td>
<td>30</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Chemical recommended for major disease &amp; pest</td>
<td>Nature of chemical</td>
<td>Dose on formulation basis</td>
<td>EU MRL (mg/kg)</td>
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</tr>
<tr>
<td>61.</td>
<td>Bifenazate 22.6% SC</td>
<td>NS</td>
<td>500 mL/ha</td>
<td>0.70</td>
<td>30</td>
</tr>
<tr>
<td>59a.</td>
<td>Spirotetramat 15.31% w/Od</td>
<td>S</td>
<td>700 mL/ha</td>
<td>2.0</td>
<td>60</td>
</tr>
</tbody>
</table>

**V Plant Growth Regulators**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Chemical recommended for major disease &amp; pest</th>
<th>Nature of chemical</th>
<th>Dose on formulation basis</th>
<th>EU MRL (mg/kg)</th>
<th>Pre-harvest Interval (PHI in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>62.</td>
<td>Hydrogen cyanamide 50 SL</td>
<td>S</td>
<td>30-40 mL/L</td>
<td>0.01</td>
<td>90-120</td>
</tr>
<tr>
<td>63.5</td>
<td>Forchlorfenuron (CPPU) 0.1% L</td>
<td>S</td>
<td>1-2 ppm</td>
<td>0.01</td>
<td>60</td>
</tr>
<tr>
<td>64.</td>
<td>Gibberellic acid (GA₃) Technical</td>
<td>S</td>
<td>100 ppm (Cumulative Usage)</td>
<td>No MRL Required</td>
<td>PHI not applicable</td>
</tr>
<tr>
<td>65.</td>
<td>1-Naphthyl acetic acid 4.5% L</td>
<td>S</td>
<td>100 ppm</td>
<td>0.06</td>
<td>15</td>
</tr>
<tr>
<td>66.</td>
<td>Chlormequat chloride 50 SL</td>
<td>S</td>
<td>600-1000 ppm</td>
<td>0.05</td>
<td>-</td>
</tr>
</tbody>
</table>

**VI Herbicides**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Chemical recommended for major disease &amp; pest</th>
<th>Nature of chemical</th>
<th>Dose on formulation basis</th>
<th>EU MRL (mg/kg)</th>
<th>Pre-harvest Interval (PHI in days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67.</td>
<td>Paraquat dichloride 24 SL</td>
<td>NS</td>
<td>5 mL/L</td>
<td>0.02</td>
<td>-</td>
</tr>
</tbody>
</table>

NS = Non-systemic, S = Systemic

* Resistance in downy mildew based on Cys b gene (G143A) against QoI fungicides (Fenamidone, Azoxystrobin, Famoxadone, Kresoxim methyl, Pyraclostrobin and Trifloxystrobin), cellulose synthase gene (*PvCesA3*) against CAA fungicides (Dimethomorph, Iprovalicarb and Mandipropamid) and resistance in powdery mildew based on *CYP51* gene (14α-demethylase) against triazole fungicides (Penconazole, Hexaconazole, Myclobutanil, Flusilazole, Difenoconazole, Tetraconazole) have been detected in India from major grape growing areas. Use of formulations containing these fungicides should be minimized and avoided during high risk periods.

$. Application of Forchlorfenuron (CPPU) should be avoided after 65 days of pruning or after 6-8 mm berry size is attained to reduce the chances of detections.

**Note**

- All the doses mentioned above are for high volume sprayers, where normal spray volume is 1000 L/ha. Spray volume can however be changed as per the efficiency of sprayers used. However, the amount of each pesticide based on its active ingredient recommended for 1 ha area on the basis of 1000 L spray solution should be strictly maintained to ensure bio-efficacy and to minimize pesticide residues.
- Recommended PHI will be valid only if two applications of an agrochemical are given per fruiting season at the interval of 7-15 days at recommended dose except in case of special mention in table.
- If any of the pesticide found ineffective in controlling the targeted diseases or pests, it is advised not to give repeated applications of the formulation since it may lead to residue issues and increase the resistance population of targeted pathogen or insects.
- The information provided in this document is of advisory nature. The responsibility of usage of chemicals for the management of any of the above pests and diseases and compliance of the produce to the EU-MRL requirement will rest with the growers.
- Since risk of more than one pest may overlap, if appropriate insecticide is used, control of non-targeted pest can be achieved. Compliance for dose, number of applications and PHI as recommended for target pest is essential and should be strictly adhered.

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