Technical information

Target pest
For the control of codling moth (Cydia pomonella):
- CpGV-M (Mexican isolate) sensitive and resistant codling moth populations.

Crops
Apple, pear, walnuts, quinces, apricots, peaches, almonds, kakis, medlars, oranges and others

Formulation
Suspension concentrate containing $>3 \times 10^{13}$ OB (occlusion bodies) of Cydia pomonella granulovirus per liter.

Standard dosage
100 ml/ha

Timing
At hatching of first larvae. Acts by ingestion.

Water volume
200–1600 l/ha. This should be adjusted according to leaf area index and spraying equipment.

Standard interval between sprays
Repeat after 8 days of full sunshine. This can be modified depending on the specific pest control strategy.

Pre-harvest and re-entry interval (PHI, REI)
Leaves no residues on fruits and plants. PHI and REI are defined according to national registration regulations.

Toxicity profile
No maximum residue levels (MRLs) are defined. Contains no chemical ingredients and leaves no residues on the crop. Complies with organic farming. No side effects on non-target organisms.

Compatibility
Compatible with most insecticides, fungicides and fertilizers. A pH level between 5 and 8.5 in the tank mix has to be respected.

Storage
Storage stability: > 2 years at −18 °C, 2 years at 5 °C, 3 months at 20 °C. Avoid temperatures above 40 °C.

Rainfastness
Good rain resistance 3 to 4 hours after spraying.
Field trials with MADEX® TOP

Field trial on a virus sensitive codling moth population, Italy 2010

<table>
<thead>
<tr>
<th>Interval (days)</th>
<th>Nr. of appl.</th>
<th>Timing</th>
<th>Variety</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MADEX® TOP (0.1 l/ha)</td>
<td>8</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical treatment</td>
<td>8 – 14</td>
<td>2,1,1</td>
<td>G1</td>
<td>Golden Delicious after G1</td>
</tr>
<tr>
<td>Chlorantraniliprol; (0.3 l/ha), Etofenprox; (1.5 l/ha), Spinosad; (0.45 l/ha)</td>
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</tbody>
</table>

Field trial on a sensitive codling moth population, Slovenia 2011

<table>
<thead>
<tr>
<th>Interval (days)</th>
<th>Nr. of appl.</th>
<th>Timing</th>
<th>Variety</th>
<th>Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MADEX® (0.1 l/ha)</td>
<td>7 – 14</td>
<td>5</td>
<td>G1</td>
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</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Chemical treatment</td>
<td>2, 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorantraniliprol; (200 g/l), Chlorpyrifos-ethyl; (250 g/l)</td>
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</tbody>
</table>
Efficacy on active damage of different CpGV isolates on granulovirus resistant codling moth populations, in field trials 2009 – 2010

<table>
<thead>
<tr>
<th>Product</th>
<th>Plot size</th>
<th>Bodensee 2009</th>
<th>Emilia Romagna 2009</th>
<th>Bodensee 2010</th>
<th>West Germany 2010</th>
<th>Emilia Romagna 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>MADEX® PLUS</td>
<td>Large</td>
<td>87%</td>
<td></td>
<td>83%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MADEX® MAX</td>
<td>Large</td>
<td>83%</td>
<td>60%</td>
<td>67%</td>
<td>92%</td>
<td></td>
</tr>
<tr>
<td>MADEX® TOP</td>
<td>Large</td>
<td>80%</td>
<td></td>
<td>67%</td>
<td>92%</td>
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</tbody>
</table>

**MADEX® TOP: Swiss quality**

Madex® Top is produced in the facilities of Andermatt Biocontrol in Switzerland. The company Andermatt Biocontrol is certified according to ISO 9001:2008.

Andermatt Biocontrol is committed to highest quality of its products. Every produced batch of Madex® Top undergoes a systematic bioassay process. The virulence of each batch is tested against the standard reference batch within Andermatt Biocontrol laboratories. Only batches that fulfil the high quality standard criteria will be released into the market.

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