**ChitoPlant®**

**Grape**

**ChitoPlant®** offers protection against various pathogens in viticulture.

*Plasmopara viticola* and *Botrytis cinerea* are only two of the pathogens treatable with **ChitoPlant®**.

A treatment with **ChitoPlant®** increases the amount of defence related enzymes such as chitosanase and peroxidase which protects fruits and plants from the pathogen; it also enhances the lignifications of the cell walls which further increases resistance against infections.*

In several studies, plants treated with chitosan showed 50-80% fewer infections with downy mildew compared to untreated plants. Foliar treatment of young grapevines with chitosan-solution results in 90% lower disease incidence and lesion diameter

**ChitoPlant®-solution** can be easily sprayed with conventional equipment.

Please see table below for information on application.

<table>
<thead>
<tr>
<th>Mode of application</th>
<th>Purpose</th>
<th>Concentration</th>
<th>Time of application</th>
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</thead>
<tbody>
<tr>
<td>Foliar spraying (dripping wet)</td>
<td>disease prevention</td>
<td>0.5g/L</td>
<td>At bloom, berry set, bunch closure, veraison and 3 weeks before harvest</td>
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<tr>
<td></td>
<td>curative</td>
<td>1g/L</td>
<td>apply every 10-12 days (maximum)</td>
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<td></td>
<td>increase concentration up to 1g/L if infestation pressure is high or cultivar is susceptible towards pathogens</td>
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<td>alternating with conventional treatments (e.g. copper-products) is possible</td>
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**Preparation**

To avoid agglutination dissolve ChitoPlant completely in a small amount of water before filling up to total required volume.

*For more Information on ChitoPlant and its Mode of Action contact us: Info@ChiPro.de*

**References:**
1. Integration of different control measures to maximise disease control of *Plasmopara viticola* in Italian organic viticulture  
   Dagostin S., Ferrari A., and Pertot I.
2. Efficacy of plant protection agents against *Plasmopara viticola* on grapevine under controlled conditions  
   Dr. Lucius Tamm, FiBL Mittelprüfung 2005
3. Control of downy mildew of grapevines by boosting their natural defence system  
   David Riches, Department of Primary Industries, Victoria 2005

For more information on **ChitoPlant®** and detailed application guidelines please contact us.  
Email: Info@ChiPro.de or Fon: 0049 (0) 421 276 569 24

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