# **BASF** We create chemistry

## Velifer™ – BASF's bioinsecticide offering

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#### Velifer™

### **Registered for Indoor Uses in U.S and Canada**

Active ingredients	Beauveria bassiana strain PPRI5339		
Mode of action	Contact insect, germination, penetration, infection		
Formulation	8% OD formulation, min 8 x 10^9 cfu/ml		
Target (organisms)	Whitefly, thrips, two-spotted spider mites, aphids		
Crops	Vegetables, tomatoes, strawberries, ornamentals		
Application rate	450 - 900 ml/1000 L water (US & Canada rates)		
Number of application	Between 3 to 5 applications, depending on pest & crop		
Spray interval	Dependent on pest pressure		
PHI	0 day		



TSSM	infected	with	Velifer™
TSSM	infected	with	Velifer <sup>™</sup>





### Velifer<sup>™</sup> From Indoor to Outdoor Field applications

### How to Integrate in IPM Program?

	<ul> <li><u>Middle season:</u></li> <li>In alternation programme with</li> <li>conventional PPP's to supress</li> <li>pest population recovery</li> <li>after knockdown.</li> </ul>	<ul> <li><u>Late season:</u></li> <li>Applications during</li> <li>peak harvest period</li> <li>to supress pest</li> <li>population.</li> </ul>
	<ul> <li>To:</li> <li>Reduce number of A.I.'s applied.</li> <li>Support beneficial insect population.</li> <li>No effect on worker entry into crop.</li> </ul>	<ul> <li>To:</li> <li>Manage residues</li> <li>No limits on worker entry into crop.</li> </ul>
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Biocontrol products based on living microbes need certain environmental conditions to survive and infect insect pest

Greenhouse applications deliver the perfectly controlled environment.

Practical use recommendations in outdoor applications:

- Sufficient water application volume (humidity)
- Avoid sunlight / UV / daytime applications

Successful use of *B. bassiana* in tree crops in South Africa



#### **Velifer™ Key Benefits**

#### Reduce resistance sustainably.

Velifer® biological insecticide

Your customers demand flawkes plants produced with sustanable graving practices. Naw Wither "biological insacticide joins Namasys" beneficial memory and the BASE biological porticio. Designed to comparement charriad solutions, it contains a proprietary strain of a naturally occurring beneficial fungue — controlling multiple gracehouse peats, including withflicts, with Ittle risk of resistance.

For more information about Velifer<sup>®</sup> biological insecticide, visit www.countryaddresshere.com.



- Velifer<sup>™</sup> liquid OD formulation avoids concerns regarding spray residues compared to WP formulations
- Broad spectrum of application against common pest targets
- Can be used in the greenhouse and in selected field crops
- Complements the efficacy of existing tools and prolongs conventional chemistry effectiveness
- Enables growers to reach key economic, societal and environmental goals







#### Velifer™

### Future Crop Protection Uses Under Consideration in U.S and Canada

- BASF invites expressions of interest for foliar and / or drench applications (outdoors) in other crops and pests
- Under evaluation by BASF
  - IPM trials rotating with chemicals (outdoors) for targeted pests
  - Foliar applications in several crops for control of chewing insects



#### **Disclaimer**

Velifer<sup>™</sup> is only registered for indoor use in foliar applications

- As to outdoor is not registered, this educational presentation is provided for informational purposes only and is not intended to promote the sale of the product. Any sale of this product after such registration is obtained shall be solely on the basis of an approved product label within the countries of registration, and any claims regarding product safety and efficacy shall be addressed solely by the label
- This presentation is property of BASF Corporation and cannot be reproduced without written permission from the author
- Always read and follow label directions



Whitefly infected with Velifer<sup>™</sup>

