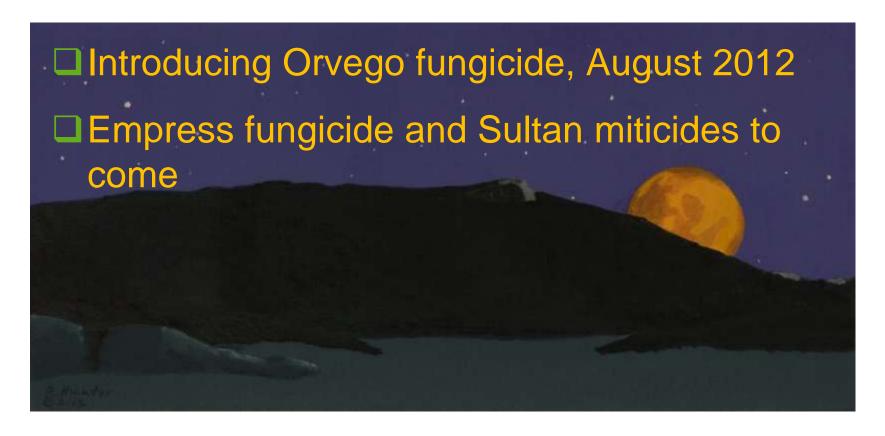
BASF Ornamental Solutions





Making the most out of the day!



BASF products make a difference for the customer



for Ornamentals

with Ametoctrachin

- An innovative new chemical class fungicide for control of oomycetes
- Complex III inhibitor; and a new tool in resistance management
- Very favorable regulatory profile
- Premium preventive action and good plant selectivity

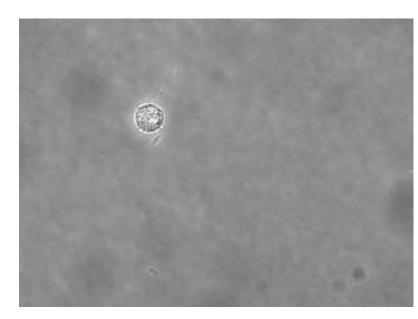


May 2012 US EPA registered ametoctradin, the active and Orvego[™] fungicide. State registrations pending. Orvego is not registered for sale in CA and NY.



Ametoctradin the Active

- Active ingredient = Ametoctradin
- Modes of action: mitochondrial respiration inhibitor (FRAC Group 45) MOA: Cuts the energy flow of the fungus by in mitochrondria at an unknown binding site in complex III. New proprietary chemical class: pyrimidylamines (= no cross resistance to QoI)
- Ametoctradin has been shown to be active against zoospores and zoosporangia (infectious stages)
- Zoospores burst within seconds at very low concentrations (= high intrinsic activity)





Ametoctradin Active

- Behavior in Plants

Root uptake

No active uptake of Orvego via the roots

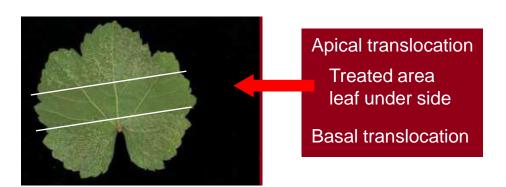
Curative activity

Orvego works best preventively

Vapour phase

No vapour phase movement

Systemicity



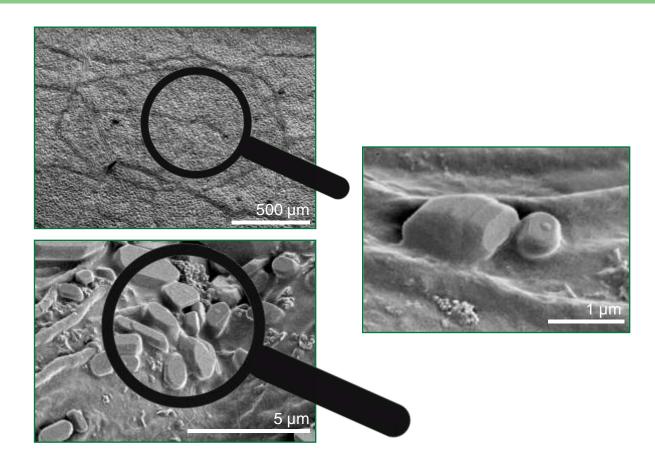




Ametoctradin Active

- Behaviour on Leaf Surface, Grapes





forms a stable depot on the plant surface



Orvego™ fungicide

A combination fungicide from BASF

Orvego is a Combination product = Ametoctradin + Dimethomorph

- 525g/L SC formulation is Ametoctradin 300g + Dimethomorph 225g
- Modes of Action: Combines a mitochondrial respiration inhibitor and cell wall synthesis inhibitor (FRAC Groups 45 and 40)
- Exhibits excellent efficacy on downy mildew species and *Phytophthora* species; inhibits sporulation; *the product will not control pythium spp.*
- Rates: 11 to 14 fl oz of Orvego
- At the registered rates the equivalent of 4.8-6.12 fl oz of Stature SC (0.156-0.2 lb ai of dimethomorph) will be delivered.
- REI: 12 hr; Signal Word: Caution





Orvego™ Fungicide

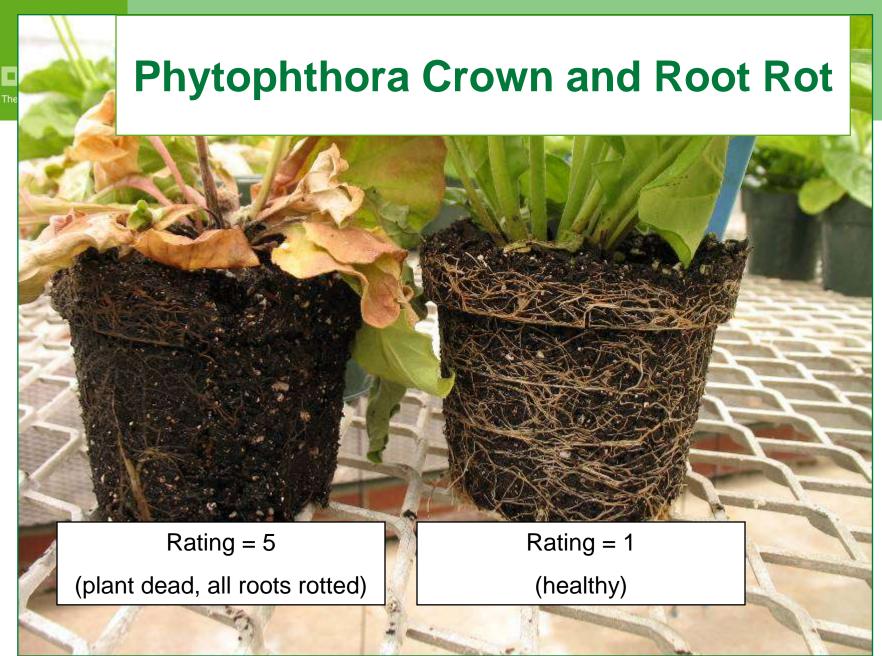
A new combination fungicide from BASF

- Orvego fungicide will best applied preventively and with early curative control
- Use rates: 11-14 fl oz/100 gal; up to 56 fl oz for plant safety
- Use sites: Production greenhouses, lathhouses and container, field nurseries and interiorscapes
- Restrictions and Limitations:
 4 applications of Orvego fungicide per crop per season

Not intended for use through irrigation systems unless following instructions for chemigation use

To be resubmitted to add landscape uses in 2012 and petition EPA for a 4 hr REI.





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Talking Product Recommendations





Orvego™ fungicide providing excellent preventive and early curative control.





Talking Product Rotation Recommendations- *Pythiums*

Pageant

Segway

FenStop

Pageant

FenStop

Segway

FenStop

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- Pyraclostrobin based liquid fungicide SC
- Used as a drench for soilborne pathogens, Rhizoctonia, Pythium, Fusarium and Phytophthora in production ornamentals
- Use rates as low as 1 oz, primarily for propagation trays, bedding plants and herbaceous pots. Will have full range woody nursery uses on label as well
- ☐ To be available early spring of 2013



Sultan™ Miticide

with cyflumetofen

- □ For use in mite control on ornamentals grown in production nurseries, greenhouses; outdoor landscape use sites; interiorscapes; and, forest and conifer nurseries and plantations
- Sultan highly active on all life stages of tetranychid mites, including eggs, nymphs, and adults.
- **Sultan** provides knockdown and residual control of a variety of tetranychid mite species with contact activity
- Sultan is tolerant against many beneficial arthropods and is a good fit within IPM and resistance management programs
- Sultan is benzoylacetonitrile class of chemistry. MOA respiration inhibitors classified by the IRAC as Mitochondria complex II electron transport inhibitor new Group 25.
 - Cyflumetofen is not yet registered by US EPA. It is not available for sale.



Verbena - URC Trial



Untreated

Pageant 4 oz Applied After Sticking

7 Days After Sticking