

# Pristine®

Fungicide

## The Industry Leader in Grape Disease Control

### Benefits of Pristine® Fungicide for Grapes

- Pristine fungicide is the industry leader in grape disease control and in proven field performance
- Include Pristine in your fungicide spray program for optimum disease control, grape quality and return on investment

Always follow FRAC guidelines when using fungicides.

### 2012 University of CA Grape Disease Control Rankings\*

Products	Powdery Mildew	Downy Mildew	Botrytis B. Rot	Summer B. Rot	Phomopsis
<b>Pristine</b>	████████	████████	████████	██████	████
Vivando	████████				
Luna Experience	████████		████████	██	
Quadris Top	████████	█	██	██	██
Inspire Super	████████		████████	██	
Flint	████████	████	██	██	██
Adament	████████	█	██	██	██
Scala	██		████████	██	
Rally	████████				
Quintec	████████				
Abound	████████	████████	█		████
Vanguard	██		████████	██	
Elevate	██		████████	██	

Ineffective      Least Effective      Most Effective  
□      █ → █ → █ → █ → █ → █ → █ → █ → █ → █

\*Source: Fungicides, Bactericides and Biologicals for Deciduous Tree Fruit, Nut, Strawberry and Vine Crops – 2012 (5/1/2012 Updated)



## UC Davis Grape Fungicide Treatment Timing<sup>1</sup>

Disease	Dormant	Bud Break	Full Bloom	Pre Close	Veraison	Preharvest / Postharvest
Phomopsis	■ ■ ■	■ ■ ■				
Powdery Mildew	■ ■ ■ <sup>3</sup>	■ ■ ■ <sup>4</sup>	■ ■ ■ <sup>4</sup>	■ ■ ■ <sup>5</sup>		
Botrytis Bunch Rot	■ ■ ■ <sup>3</sup>		■ ■ ■ <sup>2</sup>	■ ■ ■ <sup>2</sup>	■ ■ ■ <sup>2</sup>	■ ■ ■ <sup>2</sup>
Summer Bunch Rot					■ ■ ■ <sup>2</sup>	■ ■ ■ <sup>2</sup>

Ineffective 
 Least Effective 
 Moderately Effective 
 Most Effective

<sup>1</sup> Source: Efficacy and Timing of Fungicides, Bactericides and Biologicals for Deciduous Tree Fruit, Nut, Strawberry and Vine Crops – 2012 (5/1/2012 Updated)

<sup>2</sup> Only make application if rain is forecasted

<sup>3</sup> 10 gallons lime sulfur in at least 100 gallons water

<sup>4</sup> 10 gallons lime sulfur in at least 100 gallons water

<sup>5</sup> Apply as needed (use disease risk assessment model for prediction)

## Anti-Resistance Strategies for Fungicides

### Application of “Following the Rules” in Fungicide Stewardship Dr. James Adaskaveg, UC Riverside

**R**otate or mix fungicides of different mode of actions.

**U**se labeled rates—for strobilurins use upper label rates.

**L**imit total number of applications—limit any single-site mode of action fungicide class to one or two per season.

**E**ducate yourself about fungicide activity, mode of action, and class—as well as resistance management practices.

**S**tart a fungicide program with multi-site mode of action materials if possible. Reduce pathogen population size that is exposed to subsequent treatments. Probability of selecting for resistance is reduced.



## Pristine® Use Recommendations in Grapes

- Always use recommended label rate for optimum control in targeted disease.
- Non-phytotoxic adjuvants may be used to increase coverage.

### Target Diseases

- Powdery Mildew
- Phomopsis
- Summer Bunch Rot
- Botrytis Bunch Rot

**Recommended Rate/Acre:** 10-12.8 oz, 18.5-23 oz (Botrytis Bunch Rot)

**Maximum Rate/acre:** 23.5 oz

**Pre-Harvest Interval:** 14 days

**Re-entry Interval:** 12 hours (except when performing cane tying, cane turning or cane girdling, then the REI is 5 days)

**Maximum Sequential Sprays of Pristine:** 2

**Total Application/Season:** 5

### Always read and follow label directions

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