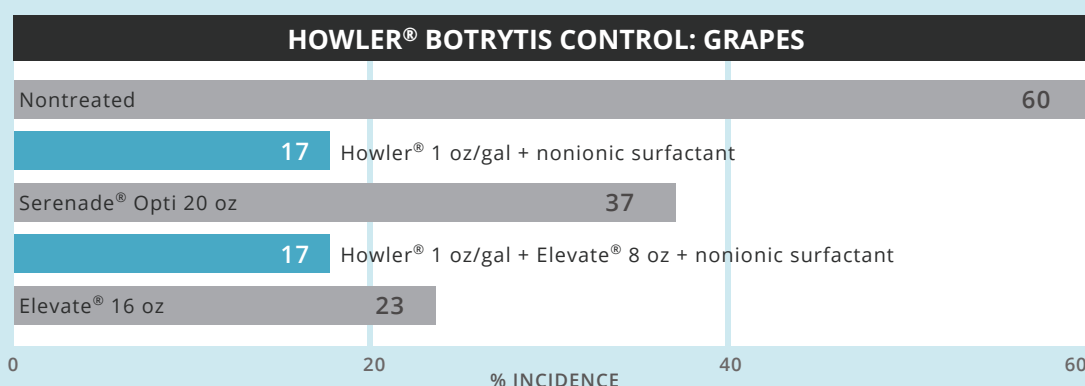


# HOWLER®

## FOR GRAPES



Introducing Howler® fungicide from AgBiome Innovations, a revolutionary fungicide that harnesses the power of the plant microbiome to create an efficacious fungicide with multiple modes of action that provide preventive, long-lasting activity on a broad spectrum of soilborne and foliar diseases. Howler® fungicide can be used effectively at every phase of production: greenhouse, pre-plant through harvest.



Data courtesy UC Davis. Treatments applied to grapes at pre-bloom, closure, veraison. Howler® and chemical standards statistically greater control compared to nontreated and Serenade® Opti.

EPA REGISTRATION NUMBER:  
91197-3-92488

ACTIVE INGREDIENT:  
*Pseudomonas chlororaphis* strain AFS009

FORMULATION:  
Wettable Powder

RATE:  
5lbs/acre alone or 2.5lbs/are in a tank mix  
with another fungicide

### Target Diseases:

- Botrytis
- Colletotrichum
- Fusarium
- Phytophthora
- Pythium
- Rhizoctonia
- Sclerotinia
- Alternaria
- Pestalotiopsis
- Powdery Mildew
- Downy Mildew



### Key Features & Benefits:

- Novel, mode-of-action fungicide for superior control of soil-borne and foliar diseases
- Attacks fungi at multiple sites
- Tank mixture partner to enhance the performance of synthetics and reduce resistance development to these “at-risk” fungicides
- Exempt from US residue tolerances
- 4-hr REI
- 0-day PHI
- Flexible application methods – soil incorporation, drench, drip, foliar, chemigation
- OMRI approved



# HOWLER®

## Best Management Practice for Mixing Howler® Fungicide:

Howler® fungicide is a 50% wettable powder (WP) formulation. Howler® fungicide can be applied by incorporation, drip or drench applications, chemigation, and foliar.

## Equipment and Procedures for Mixing Howler® Fungicide for Best Results:

### EQUIPMENT:

Continuous, vigorous agitation is required for dispersion and uniform suspension. The following methods can improve mixing: Pre-mix tank/mixing inductor, paddle agitation, and pre-slurrying (5 lb in a 5-gallons of water using a paint stirrer)

### MIXING:

- Fill spray tank 1/3 with clean water
- Dispense Howler® via induction or pre-tank
- Finish filling spray tank to the desired volume
- Allow Howler® fungicide to be mixed before adding other products

### MIXING ORDER BY FORMULATION TYPE:

- Howler® WP
- Dry flowables
- Liquid flowables
- Emulsifiable concentrates
- Adjuvants (spreaders, stickers, etc.) and nutritionals

## Compatibility:

Howler® has been tested with a variety of tank mix partners. However, it is not possible to test all possible combinations. To ensure compatibility of products, it is recommended to conduct a jar test (see product label).

## Application:

Foliar, field chemigation, or drench. Howler® can be applied using conventional spray application equipment and spray volumes but cannot be applied via aerial application.

**IN-FURROW SPRAY OR TRANSPLANT STARTER SOLUTION:**  
Howler® is applied at 67 oz/100 gal water.

### FOLIAR:

Apply at 7-21 day intervals as needed. Thoroughly cover plant foliage and soil surfaces with spray solution.

**PRE-HARVEST INTERVAL (PHI):**  
0 days

