



POME FRUIT

Fire Blight Suppression

Powdery Mildew & Apple Scab Control

RECOMMENDATION FOR USE ON PEARS & APPLES

Target Disease: Powdery Mildew (*Podosphaera leucotricha*) Fire Blight (*Erwinia amylovora*), Alternaria Blotch (*Alternaria mali*), Apple Scab (*Venturia inaequalis*) Bitter Rot (*Colletotrichum spp.*) Black Rot/ Frogeye Leaf Spot (*Botryosphaeria obtusa*) Bot Rot (*Botryosphaeria dothidea*) Brooks Spot (*Mycosphaerella pomii*) Bull's Eye Rot (*Neofabraea spp.*) Cedar-Apple Rust (*Gymnosporangium juniper-virginianae*) Flyspeck (*Zygothiala jamaicensis*) Sooty Blotch (*Geastrumia polystigmati*) (*Leptodontium elatius*) (*Peltaster fructicola*) White Rot (*Botryosphaeria dothidea*)

Product Overview: AVIV is a microbial fungicide based on a patented strain of *Bacillus subtilis*. AVIV delivers broad spectrum disease control on plant surfaces. The active ingredient in AVIV is a powerful strain of *Bacillus subtilis* IAB/BS03, which is especially prolific, meaning far smaller amounts of AVIV's AI are needed per acre than similar microbial fungicides. AVIV can be tank-mixed with a wide variety of other crop protection products, including bactericides like copper.

Advanced "Clear" Formulation: AVIV solubilizes completely in the spray tank, minimizing the risk of clogged application equipment and eliminating deposit on treated crops. AVIV is colorless and odorless. Most importantly, increased bioavailability of the AI means AVIV use rates are lower than competing products.

AVIV Advantage: Efficacy is based on active bacillus colonization and prolific production of (Active Control) versus the old first generation 1 bacillus formulations which colonize poorly and predominantly provide control from chemicals derived from the fermentation process – (Contact Control)

Fire blight: Timing and Use Rate

Use Rate: 25-30 ounces per acre

Application Timing: Full bloom to petal fall- Depending on the cultivar and the Cougar Blight model risk apple:

- **Apply AVIV every 2 to 5 days during infection periods**

Powdery Mildew & Apple Scab: Timing and Use Rate

Use Rate: 20 -25 ounce per acre

Application timing: Apply AVIV as a preventative when conditions for disease are favorable

Repeat Applications on a 5-10 day interval

When tank mixing with conventional fungicides for alternative mode of action & resistance management

Tank Mix Rate: 10-20 ounces per acre (lower rates can be used when tank mixing)

- 4-hour REI // 0-Day PHI
- No Visible Residue
- Exempt from food tolerance - No MRLs
- NOP Organic / OMRI listed

