This information is not meant to be a substitute for reading the label. Always read and follow all pesticide labels. Ensure the pesticide is currently registered in your state.

**PRODUCT**

**Formulations:** AG, Lawn & Garden, SP  
**Pests:** Soil and foliar plant diseases  
**FRAC Code (Fungicide Resistance Action Committee):** BM 02  
**Mode of Action (see next page):** Keep out (primary); Grow strong plants (primary); Eat, Poison

**APPLICATION**

**Where to apply:** Agricultural crops (AG, SP) or residential areas (Lawn & Garden); foliage, soil (drench, irrigation, in-furrow applications) for all formulations; seed treatment, dusting/soak (ornamentals), transplant dip (AG and SP only)  
**When to start applying:** Before disease appears or in very early stages  
**How to apply:** With spreader-sticker (AG, SP, Lawn & Garden); within 4 hr of mixing (AG, SP)  
**Tank mix & application compatibility:** Compatible with most chemical fungicides, insecticides, and fertilizers; if using after soil sterilization or fumigation, ensure sterilizer/fumigant has dissipated first; do not tank mix with chlorinated water, quaternary ammonia, or hydrogen peroxide

**ENVIRONMENT**

**Temperature tolerance in field:** Preferred temperature is >45°F, less active at cooler temperatures  
**Rainfastness:** 4 hr  
**UV tolerance:** Re-apply every 7 -14 days.

**STORAGE**

**How to store:** 40-77°F, out of direct sunlight; keep from overheating or freezing  
**Shelf life:** Maximum of 2 years before package is opened. Check label for expiration date. Once package is opened, use within 4 months.

**RISK**

**Signal Word:** Caution  
**REI (Restricted-entry interval):** 4 hr (AG and SP formulations)  
**PHI (Pre-harvest interval):** 0 days  
**Impacts on beneficial insects:** No known toxicity concerns for bees or other insects

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**Actinovate**  
**Active ingredient**  
*Streptomyces lydicus WYEC 108 (live)*

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Written by Amara Dunn, NYSIPM using information from product labels, manufacturers, the EPA and other sources; last reviewed May 2023
About biopesticides

Using Biopesticides

- Apply preventatively.
- Use as part of an IPM strategy, including cultural management practices, other pesticides, etc.
- Mix only what you need; don’t leave in spray tank overnight.
- Don’t expose to excessive heat in storage.
- When tank mixing, follow label instructions for all products. Check with company rep or distributor if you have questions. Do a “jar test” to determine physical compatibility if you want to mix two products for which you cannot find information on their compatibility.
- Proper cleaning of spray tanks after any pesticide application is always important. Pay special attention to tank cleaning when a biopesticide is applied after another incompatible product.

How Biopesticides Work

Modes of action (MOAs)

- Eat: Live microbe grows on/in pest
- Poison: Biopesticide (or its products) kills the pest directly
- Keep out: Live microbe grows on plant, leaving no room for pests
- Turn on resistance: Turns on the plant’s defenses before pest attacks
- Grow strong plants: Makes plant stronger, healthier, more resilient
- Repel: Pest avoids plants treated with biopesticide
- Stop feeding: Stops pest from feeding; pest eventually starves
- Stop growth: Stops pest from growing or molting; pest eventually dies
- Stop reproduction: Hampers pests’ ability to find a mate, lay eggs

LEARN MORE

Efficacy of biopesticides
  go.nysipm.org/biopesticide-efficacy

Biocontrol Bytes blog
  blogs.cornell.edu/biocontrolbytes/

Biocontrol
  go.nysipm.org/biocontrol