

# PERMATROL™

## FOR POWDERY MILDEW CONTROL

Permatrol, a new contact treatment for powdery mildew from Soil Tech Corp., is now commercially available for use on all crops including grapes and ornamentals. The label includes outdoor, greenhouse, and shadehouse grown ornamentals as well as nursery stock. Permatrol is a natural product derived from jojoba seeds. It is a unique pesticide in a liquid wax form.

### HOW DOES PERMATROL WORK?

Permatrol kills on contact by smothering powdery mildew mycelium and preventing spore formation and dispersal. It causes immediate lysis, or destruction of fungus cells, including strains resistant to other classes of compounds. The material has a wax component, which leaves a natural residue on plant tissue. This waxy residue continues to suppress disease spores long after application, extending re-treatment intervals. An added bonus of this waxy residue is that it gives plants a healthy, shiny appearance prior to shipping.



A PURE  
PRODUCT  
FROM THE  
JOJOBA SEED



### PERMATROL BENEFITS

#### Consistent Efficacy

- Permatrol is one of few “curative” materials that effectively kills powdery mildew mycelium. Permatrol provides broad spectrum control of powdery mildew strains, including those developing resistance to other compounds.

#### Minimum Worker Re-entry Interval

- Re-entry in 4 hours
- Ideal applicator safety
- Can be used on day of harvest

#### Ideal For IPM Program

- Soft on beneficials
- Does not cause secondary pest outbreaks

#### Improves Ornamental Plant Marketability

- Cleans and shines plant surfaces
- Foliage is more appealing to consumers



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## TECHNICAL DATA

**Purpose:** Permatrol is a contact fungicide for use in an I.P.M. program for control of powdery mildews. Permatrol is labeled for all crops.

**Application:** Unlike preventative materials that are applied before disease infection, Permatrol needs to be applied only after powdery mildew is observed. Make the first application when powdery mildew infection is first observed. Make follow-up applications when powdery mildew infections are again observed. Under heavy infestations, two back-to-back applications 7 days apart may be required for control. Permatrol may be used alone, rotated with other contact fungicides or tank-mixed with protectant fungicides.

**Application Rates:** A rate of 0.5% v/v spray solution is optimum for control of light to moderate infestations of powdery mildew. A higher concentration up to 1.0% v/v may be necessary for heavy infestations of powdery mildew. Do not exceed a rate of 1.0% spray solution in any application. See Table below for help with measurements (amounts are rounded up):

Gallons (liters) of Spray Solution	Amount of Permatrol for a 0.5% Solution	Amount of Permatrol for a 0.75% Solution	Amount of Permatrol for a 1.0% Solution
100 (380)	64 fl oz (or) 1.9 lt	96 fl oz (or) 2.9 lt	128 fl oz (or) 3.8 lt
50 (190)	32 fl oz (or) 0.95 lt	48 fl oz (or) 1.45 lt	64 fl oz (or) 1.9 lt
5 (19)	95 mls (or) 3.2 fl oz (or) 6.4 tbsp	142 mls (or) 4.8 fl oz (or) 10 tbsp	190 mls (or) 6.4 fl oz (or) 13 tbsp
1 (3.8)	19 mls (or) 0.7 fl oz (or) 4 tbsp (or) 1.3 tbsp	29 mls (or) 1.0 fl oz (or) 6 tbsp (or) 2 tbsp	38 mls (or) 1.4 fl oz (or) 8 tbsp (or) 2.6 tbsp

**Coverage:** As with all contact materials, thorough spray coverage with Permatrol is very important for good disease control. Jojoba wax covers powdery mildew mycelia and spores and causes immediate lysis, or destruction of the fungus cells. Avoid excessive runoff of spray material for maximum control.

**Agitation:** Once mixed, continuous agitation of the spray solution is required to assure proper deposit of Permatrol on the plant. If the spray solution sits for a lengthy period without agitation be sure to agitate it well before starting to spray again.

**Temperature:** For optimal mixing, do not mix with cold water or apply under cold ambient temperatures (less than 50°F or 10°C). It is normal for jojoba wax to solidify in temperatures less than 50°F (10°C). If Permatrol does solidify, place the bottle in a warm room or run under warm water until normal viscosity returns.

