

## ORGANIC / SOFT CHEMICAL TREATMENTS

### DOSAGE

#### Dribble (Solution) Method:

- Dissolve 35g of Oxalic Acid Dihydrate in 1 liter of 1:1 sugar water (weight : volume)

#### Vaporization/Sublimation Method:

- 1g Oxalic Acid Dihydrate powder into vaporizer.

### PROPER PLACEMENT OF MEDICATION

#### Solution Method:

- Note: To completely dissolve oxalic acid dihydrate, use warm syrup. With a syringe or an applicator, trickle 5 ml of this solution directly onto the bees in each occupied bee space in each brood box. The maximum is 50ml per colony whether bees are in NUCs, single, or multiple brood chambers.

#### Vaporization/Sublimation Method:

- Restricted lower hive entrance. Seal all upper hive entrances and cracks with tape to avoid escape of oxalic acid vapor. Follow the vaporizer manufacturer's directions for use. Insert the vaporizer apparatus through the bottom entrance. Apply heat until all oxalic acid has sublimated.

### TREATMENT DURATION

- Immediate
- During high brood production, repeat application 3 consecutive weeks to kill emerging mites

### HOW IT KILLS MITES

- Manufacturer's reported efficacy rate: 90-99%
- Contact: Dribble (Sugar water method)
- Evaporation: Vaporization/Sublimation

### RECOMMENDED APPLICATION TIME

- Temp range for application: Not temperature dependent
- Spring and summer but works best in the fall/winter
- Most effective time to treat is when a hive has little to no sealed brood.

### USAGE WITH HONEY SUPERS

- Can be used with honey supers, however, we do not recommend

### PROS

- Not temperature dependent

### CONS

- Continuous multiple treatments can affect the bees severely
- Can damage eyes, skin, nose, throat, & lungs. Proper safety equipment required
- When dribble method is used in winter, possible ingestion by bees can shorten their lifespan
- Vaporization/Sublimation method can possibly scar bees' exoskeletons



## Oxalic Acid Dihydrate

### Active Ingredient:

Oxalic acid (100%)

### EPA Registration

#### No. 91266-1:

USDA, AGRICULTURAL  
RESEARCH SERVICE, Bee  
Research Laboratory  
10300 Baltimore Avenue,  
Bldg. 306, Rm. 315 BARC-EAST  
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