

Miticide Guide for Established Hives 2024

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WARNING: It is a violation of Federal Law to use any of the listed products in a manner inconsistent with its labeling. This document is meant only as a guide for choosing a miticide for an established colony. There are no warranties, expressed or implied. **YOU MUST Consult the EPA Label Insert for Complete Product Use Information.** Use all products in strict accordance to precautionary statements and with applicable State and Federal regulations.

Active Ingredient	Product and EPA Registration Number	Temperature Limits	Application Material, Amount per Colony/Hive	Honey Supers On	Treatment Duration	Penetrates Capped Brood	Notes
Thymol	Apiguard 79671-1	60 °F to 105 °F	Gel or gel tray: 100 g total needed per colony	No	Min. 4 weeks, Max. 6 weeks. One 50g tray for two weeks, repeat with 2nd 50g tray OR 25 g for one week, repeat 2-3 times (3-4 applications).	No	Place tray or gel board on top of frames Use spacer to provide 1/4 inch room above top of tray so workers can access gel. Honey supers can be placed on hive immediately after the end of the treatment period after removing any remaining product.
Thymol, menthol, eucalyptus oil	API Life Var 73291-1	65 °F to 95 °F	Tablet, 3 tablets total per colony (1.5 bags)	No	26-32 days. (1 tablet for 7-10 days, repeat with 2nd tablet, 3rd application= 1 tablet for 12 days)	No	For each application, break table into 4 equal pieces, apply to 4 corners of top bars in bottom brood box. Three tablets (1.5 bags) needed per colony for full treatment. No spacer needed. Use up to twice per year.
Formic acid	Formic Pro 75710-3	50 °F to 85 °F	Gel sachet: 2 strips per colony	Yes	OPTION ONE: 2 strips for 14 days OR OPTION TWO: 1 strip for 10 days, remove and add 1 strip for 10 days (total 20 days)	Yes	Open hive entrance fully, but do not use with screened bottom board. Colony must be at least 10,000 bees or stronger (min. 6 deep frames). Do not feed bees during treatment. Do not disturb brood frames during treatment. For hives with single or double brood chambers, place sachet(s) on the top bars of the lower brood chamber, no additional spacer is needed. Allow a minimum of one month between repeated treatments. DO NOT MIX with other miticides.
Hops Beta Acid salt	Hop Guard III 83623-2	Daytime > 50 °F	Cardboard strip: 1 strip per 5 brood frames	Yes	14 Days min. 30 days max.	No	1 strip per 5 frames of bees in brood boxes only. Do not place in Honey Supers. Provide max ventilation to hive when using in high temperature or humidity conditions. Can use up to 4 times per year.
Oxalic Acid dihydrate, (OA)	API-bioxal 91266-1	Temperature concerns are only for chill exposure to brood/bees, however, bees must not be in tight cluster when treating by vaporization.	Powder. . 1 g OAV (1/4 tsp) per brood chamber. OR. OADribble: 5 ml syrup per seam of bees, max. 50 ml syrup per colony	Yes	Varies by application type and amount of brood present, and location. Multiple applications are needed if capped brood is present.	No	OA Syrup Application = 35g OA in 1liter 1:1 sucrose syrup. OA Syrup is not stable, use within 3 months when stored in cool place.
	EZ-OX 101743-2		Tablet or powder. OAV : Up to 2 grams per brood chamber. OR. OADribble: 5 ml syrup per seam of bees, max. 50 ml syrup per colony	Yes		No	Tablets for use in vaporizers are 1 gram OA each. OA Syrup Application for powdered product = 35g OA in 1liter 1:1 <u>sucrose</u> syrup. OA Syrup is not stable, use within 3 months when stored in cool place.
	VarroxCare 94413-3		Cardboard strip. One strip per 2.5 frames of brood (4 strips per 10 frames of bees)	Yes		42-56 Days	No