



2023 EPA APPROVED COMMERCIAL PRODUCTS FOR VARROA MITE TREATMENTS IN HONEYBEE HIVES



SYNTHETIC / HARD CHEMICAL TREATMENTS (INSECTICIDES)

PRODUCT	DOSAGE	PROPER PLACEMENT OF MEDICATION	TREATMENT DURATION	USAGE WITH HONEY SUPERS
Apistan™ Active Ingredient: Tau-fluvalinate (10.3%) (synthetic pyrethroid) Manufacturer: Vita Europe www.vita-europe.com	• 2 strips per brood box (or 1 strip per 5 frames of bees)	• The strips should be inserted, spaced apart hanging on different frames fairly centrally in the brood nest where bees will walk over them.	• Leave the strips in the hive for 6-8 weeks.	• Not recommended. remove honey supers before application. • Do not replace honey supers until 14 days after the strips are removed.
HOW IT KILLS MITES				
RECOMMENDED APPLICATION TIME				
PROS				
CONS				
Apivar™ Active Ingredient: Amitraz (3.33%) (amidine) Manufacturer: Veto-Pharma www.veto-pharma.com	• 2 strips per brood chamber (or 1 strip per 5 frames of bees).	• Strips need to be in the bee cluster, which is also the brood area of the colony.	• 42 days (6 weeks) and then remove within 14 days	• Not recommended. Remove honey supers before application.
HOW IT KILLS MITES				
RECOMMENDED APPLICATION TIME				
PROS				
CONS				
CheckMite™ Active Ingredient: Coumaphos (10%) (organophosphate) Manufacturer: Bayer www.animalhealth.bayer.ca/en/bees/checkmite/	• One strip for each five combs of bees in each brood box (Langstroth deep frames or equivalent in other sizes).	• Hang the strips in separate spaces between the combs as near the center of the bee/brood cluster as possible. If two deep brood chambers are used for the brood nest, hang strips in both the top and bottom brood chambers.	• Leave the strips in the hive for 42 - 45 days.	• Not recommended. Remove honey supers before application. • Do not replace honey supers until 14 days after the strips are removed.
HOW IT KILLS MITES				
RECOMMENDED APPLICATION TIME				
PROS				
CONS				

ORGANIC / SOFT CHEMICAL TREATMENTS

PRODUCT	DOSAGE	PROPER PLACEMENT OF MEDICATION	TREATMENT DURATION	USAGE WITH HONEY SUPERS
Apiguard™ Active Ingredient: Thymol (25%) Manufacturer: Vita Europe www.vita-europe.com	• 50 g (1.76 ounce) trays or Apiguard 3 kg (6.6 lb) tub: stir the tub well and use the syringe to apply 50 g Apiguard onto the dosing tray provided	• Gel side up on top of the brood frames. Make sure to leave enough space for the bees to get into the tray (use a spacer or an empty super on top of the brood chamber). • Do not close up hive entrances during treatment. • Close screened bottom boards. • Feeding discouraged so bees can focus on dispersing treatment.	• Repeat after 2 weeks and leave in place for a further 2-4 weeks • The ideal treatment period is 6 weeks in total	• Not recommended. Remove honey supers before application.
HOW IT KILLS MITES				
RECOMMENDED APPLICATION TIME				
PROS				
CONS				
ApiLifeVar™ Active Ingredient: Thymol (74.09%), Oil of eucalyptus (16%), Menthol (3.73%) Manufacturer: Veto-pharma www.veto-pharma.com	• 3 tablets (1.5 bags) to ensure a full treatment.	• Take one of the 2 tablets and break it into 4 pieces. • Open the beehive and set the single pieces of the tablet around the edge of the brood nest on top of the top bars (in the corners of the beehive). • Don't place the product in the center of the beehive or near the brood.	• 1st application: leave 7 to 10 days • 2nd application: leave 7 to 10 days • 3rd application: leave 12 days	• Not recommended. Remove honey supers before application.
HOW IT KILLS MITES				
RECOMMENDED APPLICATION TIME				
PROS				
CONS				
Formic Pro™ Active Ingredient: Formic acid (46.7%) Manufacturer: NOD Apiary Products Ltd. http://nodglobal.com/	• Option 1: 2 strips for 14 days • Option 2: 1st strip for 10 days remove and replace with 2nd strip for an additional 10 days. • To help prevent adverse side effects, cluster must cover a minimum of 6 brood frames (approximately 10,000 bees).	• Ventilation requirements: fully open bottom entrance, 0.5" in height and full width of the Langstroth hive. • Close off screen bottom boards for maximum efficacy. • To help prevent excessive bearding, add a box with frames to the top of the hive during treatment. • Do not feed during the treatment period.	• Refer to Dosage above • Allow a minimum of 1 month between applications	• Can be used with honey supers, however, we do not recommend
HOW IT KILLS MITES				
RECOMMENDED APPLICATION TIME				
PROS				
CONS				
Hopguard 3™ Active Ingredient: Hop beta acids resin (16%) Manufacturer: Beta Tec www.betatec.com	• Two insert strips per ten frames	• Strips should be hung between brood frames	• For best results, leave strip in the hive for a minimum of 14 days	• Can be used with honey supers, however, we do not recommend
HOW IT KILLS MITES				
RECOMMENDED APPLICATION TIME				
PROS				
CONS				
MiteAway Quick Strips (MAQS)™ Active Ingredient: Formic acid (46.7%) Manufacturer: NOD Apiary Products Ltd. http://nodglobal.com/	• Option 1: Full dose (1 sachet, 2 strips) on top of one brood box or in between 2 brood boxes • Option 2: 1 strip every 2-6 weeks. • To help prevent adverse side effects, cluster must cover a minimum of 6 brood frames (approximately 10,000 bees).	• Ventilation requirements: fully open bottom entrance, 0.5" in height and full width of the Langstroth hive. • Close off screen bottom boards for maximum efficacy. • To help prevent excessive bearding, add a box with frames to the top of the hive during treatment. • Do not feed during the treatment period.	• 7 days. Allow a minimum of 1 month between applications	• Can be used with honey supers, however, we do not recommend
HOW IT KILLS MITES				
RECOMMENDED APPLICATION TIME				
PROS				
CONS				
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 Beltsville, MD 20705	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.	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.	• Immediate • During high brood production, repeat application 3 consecutive weeks to kill emerging mites	• Can be used with honey supers, however, we do not recommend
HOW IT KILLS MITES				
RECOMMENDED APPLICATION TIME				
PROS				
CONS				

PLEASE RESEARCH EACH MEDICATION THOROUGHLY BEFORE USING. SELECTION & USE OF MEDICATION WILL DEPEND UPON YOUR REGION, YOUR COLONY STRENGTH & HEALTH, YOUR IPM STRATEGY, AND YOUR WEATHER. THESE ARE TREATMENTS REGISTERED ON A FEDERAL LEVEL. FOR MORE INFO VISIT [HTTPS://WWW.EPA.GOV/POLLINATOR-PROTECTION/EPA-REGISTERED-PESTICIDE-PRODUCTS-APPROVED-USE-AGAINST-VARROA-MITES-BEE-HIVES](https://www.epa.gov/pollinator-protection/epa-registered-pesticide-products-approved-use-against-varroa-mites-bee-hives) BEEKEEPERS SHOULD CHECK WITH THEIR STATE PESTICIDE REGULATORY AGENCIES TO DETERMINE THE REGULATORY STATUS OF THE PRODUCTS IN THEIR INDIVIDUAL STATES. ONLY USE TREATMENTS APPROVED BY FEDERAL AND STATE AGENCIES. PLEASE REFER TO MANUFACTURERS' WEBSITE, GUIDELINES, AND INSTRUCTIONS FOR UP-TO-DATE INFORMATION AND BEFORE APPLYING TREATMENTS. IT IS RECOMMENDED TO ROTATE MEDICATIONS TO PREVENT MITE RESISTANCE & TO FOLLOW A 2-3 YEAR COMB REPLACEMENT SCHEDULE TO PREVENT MEDICATION BUILD-UP IN COMB. OFF LABEL OR OFF BRAND USE OF MEDICATIONS AND ACTIVE INGREDIENTS CAN LEAD TO MITE RESISTANCE; HARM TO YOUR BEES, HONEY AND WAX; ENVIRONMENT; OR PERSONAL INJURY.

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