

APIVAR® 2.0

COMMERCIAL

Solid

ACARICIDE- Plastic strip

For the control of mites (varroosis) on honey bees

ACTIVE INGREDIENT: Amitraz 3.00%

POTENTIAL SKIN SENSITIZER

REG. NO. 35663 P.C.P. Act

READ THE LABEL BEFORE USING

CAUTION



POISON

NET CONTENTS: _____ PLASTIC STRIPS

Registrant in Canada and owner of the product and trademark Apivar® 2.0:

Véto-pharma SAS

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France

Public Inquiries:

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Expiry date: 24 months / Batch No., Date of Manufacture: See on the edge or back or front of pack

GENERAL INFORMATION:

Apivar® 2.0 is a sustained-release plastic strip designed for use in beehives to control the parasitic mite (*Varroa destructor*) on honey bees.

DIRECTIONS FOR USE:

For varroa treatment – To control varroa mite, remove honey supers before application of Apivar® 2.0. Use 2 Apivar® 2.0 strips per brood box.

Insert Apivar® 2.0 strips in hives immediately after opening package. Hang each strip between two comb frames inside the brood area or the bee cluster, with a minimum distance of 2 frames between strips. Suspend Apivar® 2.0 strips in the brood box in such a way that the bees have access on both sides of the strips. Leave strips inside the hive for 42 days minimum, and then remove. If there is a lot of brood when the treatment is applied, leave the strips for a total of 70 days.

It is recommended to check and potentially scrape the strips (to remove propolis, wax and honey residues) at mid treatment. In case of movement inside the beehive far from the strips, a repositioning of the strips should be done into the bee cluster, and the strips left in place for 14 more days before removal. Strips must be removed after a maximum of **70 days**.

DO NOT re-use the strips. Do not handle more than 200 strips per person per day. Wear chemical resistant gloves (e.g. nitrile) when handling the strips.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

TIMING:

Hang Apivar® 2.0 strips in the hives in the spring or the fall if varroa mite infestations have reached treatment thresholds.

DO NOT USE APIVAR® 2.0 STRIPS WHEN HONEY SUPERS ARE PRESENT.

If mite infestation reaches treatment thresholds in autumn, remove surplus honey supers before using Apivar® 2.0. Consult provincial or territorial guidelines for more information on varroa control.

WITHOLDING PERIOD FOR HONEY COLLECTION: Zero days. **DO NOT** use while honey supers are present.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. POTENTIAL SKIN SENSITIZER.

Keep strips in original, unopened packaging, away from foodstuffs. Avoid inhalation of product vapour when opening the sealed packet of strips. Vapour from product may be harmful if inhaled. Avoid contact with skin and eyes and wear chemical resistant gloves (e.g. nitrile) when handling the strips. Wash hands thoroughly with soap and water after use. May be harmful if absorbed through the skin. Do not eat, drink or smoke whilst using. Avoid contamination of any water supply with strips or empty container.

ENVIRONMENTAL PRECAUTIONS:

Toxic to aquatic organisms.

FIRST AID:

If on Skin/clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control centre or doctor for further treatment advice.

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Amitraz acts primarily as an α 2-adrenergic receptor agonist. Symptoms of poisoning may include central nervous system depression (drowsiness, dizziness, and decreased heart rate), skin irritation, eye irritation, and transient skin flushing. Phentolamine and Yohimbine may be useful antidotes.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that Apivar® 2.0 contains a Group 19 acaricide. Any mite population may contain individuals naturally resistant to Apivar® 2.0 and other Group 19 acaricides. The resistant individuals may dominate the mite population if this group of acaricides is used repeatedly in the same location. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay acaricide resistance:

- Where possible, rotate the use of Apivar® 2.0 or other Group 19 acaricides with different groups that control the same pests.
- Acaricide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Correctly identify the pest and ensure economic and agronomic thresholds are met before treatment.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact your local provincial extension specialist.

STORAGE:

Store this product away from food or feed. Store at ambient room temperature, out of direct sunlight, and away from other pesticides that may contaminate the strips.

DISPOSAL:

Dispose of packaging and used strips in accordance with provincial or territorial requirements. For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Shelf life: when stored appropriately, this product should show no significant degradation for two years from date of manufacture.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

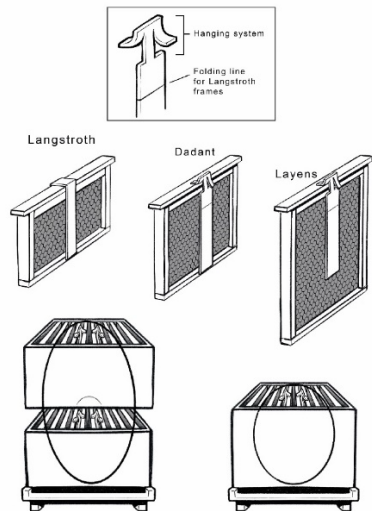
[Note to Reviewer: Optional Logos and Statements below]



[Image of honey bee – image below or similar]



[Image of instruction to user on placement of strips – image below or similar]



Optional Marketing claims – Note to Reviewer – [bracketed] text is optional or alternate phrasing of statements

Manufacturing Claims

- 1) Apivar® 2.0 is manufactured in France to the highest quality standards.
- 2) The Apivar® 2.0 strip provides consistent results and is not harmful for the bees when used according to the label directions, and meets or exceeds stringent [manufacturing] quality standards.
- 3) Formulated by beekeeping experts for beekeepers.
- 4) High quality product.
- 5) Strict analysis and Quality Control process of each batch before marketing.
- 6) Apivar® 2.0 strips are vacuum-packed to preserve the active ingredient.

Mode of Action Claims

- 7) Apivar® 2.0 is an amitraz-based apiary product that treats not just one generation of Varroa mites, but several successive generations, reducing mite populations in the hive in [1] [one] [a single] application.
- 8) The formulation of Apivar® 2.0 strips has been developed to continuously release amitraz over 6-10 weeks, killing several successive generations of Varroa mites.
- 9) Apivar® 2.0 works by slow-release technology. Varroa mite population fall through the duration of the treatment.
- 10) The formulation of Apivar® 2.0 is specifically designed to ensure a large decrease in mite population during the first 3 weeks of the treatment.
- 11) A long-acting treatment like Apivar® 2.0 kills several successive generations of Varroa mites during the treatment period. As a result, the colony remains clean for the long term.
- 12) Amitraz is a miticide that paralyzes Varroa mites. Varroa can no longer hold on to the bees and fall to the bottom of the hive, leading to their starvation.
- 13) The formulation of Apivar® 2.0 is specifically designed to ensure a fast and regular release of amitraz on the surface of the strip during the duration of treatment.
- 14) The polymer strip was chosen for its rigidity and its ability to continuously release the active ingredient over a 6-10 week period.
- 15) Apivar® 2.0 works by contact: the active ingredient is continuously delivered over time. As bees [get] [move] in contact with the strip's surface, they pick up molecules of the active ingredient and then distribute them throughout the colony.

16) The active ingredient is delivered continuously during the treatment period.

Application Claims

- 17) Effective in [One] single application.
- 18) [Provides] Long period of protection: 6 to 10 weeks of treatment with only one application.
- 19) Convenient and easy to use.
- 20) Apivar® 2.0 can be used in the presence of queen cells or non-mated young queens.
- 21) Quick and easy to use.
- 22) Easy way to treat your colonies against varroa mites.
- 23) No temperature constraint when using Apivar® 2.0.
- 24) Apivar® 2.0 can be used in any season when the supers are not placed on the hive.
- 25) Apivar® 2.0 can be used as a spring treatment (before spring honey production) and as a late summer / autumn treatment.
- 26) Strips can [remain] [be left] in the hive between 6 to 10 weeks depending on the size of the brood area.
- 27) Apivar® 2.0 can be introduced as soon as hive activity resumes in the spring, or after the withdrawal of supers, even when outside temperatures are high, without risk to the colony.
- 28) The larger the area of brood is, the longer the strips should be left in the hive within a maximum treatment period of 10 weeks.
- 29) Hang Apivar® 2.0 strips in the hives in the spring and/or the fall if Varroa mite infestations have reached treatment threshold.
- 30) The strips should be placed in such a way that the bees can have free access to both sides.
- 31) Effectiveness is tied to contact between bees and strips.
- 32) Promote as much contact as possible.
- 33) More contact = better distribution of amitraz in the colony.
- 34) It is recommended to feed colonies when applying Apivar® 2.0 strips. It will ensure an increase of the activity of the colony and so more bee movements helping distribute amitraz.
- 35) Treat all of your colonies at the same time to avoid re-infestation.
- 36) Do not apply at a rate lower than specified on the label.
- 37) Check the position of the strips in the brood nest during the treatment and, readjust it. Scrape the strip to remove wax or propolis.
- 38) If you discover that the brood area has moved away from the Apivar® 2.0 strips, relocate the strips to the brood area and lengthen the treatment period up to 70 days maximum to ensure maximum efficiency.
- 39) If necessary, reposition and scrape off any wax or propolis off of the strips.
- 40) Repositioning and scraping wax and propolis off of the strips improves the efficacy of the treatment.

Resistance Management Statements

- 41) Leave strips inside the hive for 42-70 days, and then remove.
- 42) At the end of treatment, remove the strips in order to prevent the presence of low quantities of amitraz in the hive. Failing to remove the strips may promote the development of possible resistance.
- 43) To avoid encouraging the development of resistance, do not leave the strips in place throughout the winter season.
- 44) Apivar® 2.0 strips are not biodegradable and should be disposed of after treatment in accordance with local regulations.

Additional Claims

- 45) Specifically formulated for bee hives.

- 46) Attach system specifically designed to answer the 3 most common types of hives (Langstroth, Dadant and Layens). Easy to hang in the hive thanks to the attachment system.
- 47) Longer strips to promote more contacts of the bees with the strips.
- 48) Apivar® 2.0 is not harmful to bees and hive products when used according to the label directions thanks to the quality of its components and its controlled-release technology.
- 49) Not harmful to brood and bees when used according to the label directions.
- 50) No brood mortality induced by Apivar® 2.0 at recommended dose.
- 51) No negative effect to brood or queens when used according to the label directions.
- 52) No negative effect for brood or bees when used according to the label directions.

Distribution Statements

Available from your Canadian beekeeping supplier