

## **SUMMARY OF THE PRODUCT CHARACTERISTICS**

### **1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Apilife Var bee-hive strip for honey bees

### **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each bee-hive strip contains:

Active substances:

Thymol	8,00 g
Eucalyptus oil	1,72 g
Camphor, racemic	0,39 g
Levomenthol	0,39 g

For a full list of excipients, see section 6.1

### **3. PHARMACEUTICAL FORM**

Bee-hive strip

Green foam sponge, approximately 7.5 x 5.0 x 0.5 cm, impregnated with essential oils.

### **4. CLINICAL PARTICULARS**

#### **4.1 Target species**

Honey bees (*Apis mellifera*).

#### **4.2 Indications for use, specifying the target species**

Treatment of varroosis caused by *Varroa destructor*.

#### **4.3 Contraindications**

Do not use during honey flow in order to avoid tainting the taste of the honey.  
Do not use when maximum daytime temperature is above 30°C.

#### **4.4 Special warnings**

Treatment at temperatures above of 30°C lead to increased stress and mortality of adult bees and brood.

For maximum efficacy use the product in late summer after the honey harvest, when the amount of bee brood present is diminishing.

The ideal outside temperature for a good effectiveness of the product during the treatment ranges between 20-25°C.

Insufficient efficacy can be expected if the average outside temperature is lower than 15°C.

#### **4.5 Special precautions for use**

##### **Special precautions for use in animals**

Do the treatments without supers.

Do not perform during honey flow but after the relative honey harvest.

All colonies in the same apiary should be treated simultaneously to avoid robbery.

Avoid disturbance to the hive. Do not place the strip in the centre of the beehive or near the brood.

Never place strips near a sugar feeder as this may reduce feeding.

It is not recommended to treat hives in cold weather.

#### **Special precautions to be taken by the person administering the medicinal product to animals**

Because of possible contact dermatitis and irritation of the skin and eyes observed with thymol, direct skin and eye contact should be avoided.

When handling the product, wear impermeable gloves as well as the usual protection equipment.

After application, wash hands and the material being in contact with the strip with soap and water.

In case of skin contact, wash thoroughly the affected area with soap and water.

In case of eye contact, wash the eyes thoroughly with copious amounts of clean running water and seek medical advice.

Do not inhale.

#### **4.6 Adverse reactions (frequency and seriousness)**

Bees may remove food from directly under the strip.

Treatment at temperatures above of 30°C may lead to increased stress and mortality of adult bees and brood.

The colony may become slightly agitated during treatment.

There may be reduced acceptance of the food if feeding at the same time as treatment.

#### **4.7 Use during pregnancy, lactation or lay**

Not applicable.

#### **4.8 Interactions with other medicinal products and other forms of interaction**

Do not use simultaneously with other acaricides.

#### **4.9 Posology and method of administration**

**Dosage:** 1 strip every 7 days for each beehive, complete treatment 4 strips for each beehive. The treatment should be done once per year.

**Application:** to perform the treatment take one strip from the sachet and place it in one of the four corners above the honeycombs, far away from the brood placed in the center of the beehive. Close the beehive and let the product work for 7 days.

The strip can also be used by cutting it into 3-4 pieces to be placed in the corners of the beehive (see Figures 1;2;3;4). Repeat the treatment for 4 consecutive times. At the end of the treatment, the pieces of strips still present must be removed.

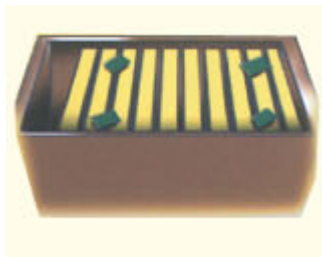
It is not recommended to use the product in multiple storey hives as unsatisfactory efficacy might be expected.



**Fig. 1** Open the proper bag that contains the two strips.



**Fig. 2** Take one of the two strips and break it into 3-4 parts.



**Fig. 3** Open the hive and set the single pieces of the strip to the corners on the lath holding the comb.



**Fig. 4** Close the hive and let the product act for 7 days. Repeat the explained treatment for 4 times with the other strips and remove the possible pieces of strip at the end of the treatment.

### **Integrated Pest Management**

The efficacy may vary between colonies due to the surrounding conditions (*environmental factors connected to the place and climate conditions, temperature, genetic and infestation level, reinfestation, bee population, strength of the colon, brood area and bee mortality, etc.*). The product should therefore be used as a treatment amongst others within an Integrated Pest Management program, and mite drop regularly monitored. Colonies with an average mite drop of more than 1 mite per day two weeks right after the last treatment have to be subjected to an additional winter or spring treatment for varroa (preferably with another active ingredient).

#### **4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary**

In the case of an overdose of too many strips, bees can be disturbed, showing increased stress and a change in behaviour. They exit the beehive and remain outside. If dead bees and grubs are found, remove excess strips.

#### **4.11 Withdrawal period**

Honey: Zero days.

Do not use during honey flow in order to avoid to adulterate the taste of the honey.

### **5. PHARMACOLOGICAL PROPERTIES**

Pharmacotherapeutical group:

Provisional ATCvet Code n° QP53AX30 (combinations of other ectoparasiticides for topical use).

#### **5.1 Pharmacodynamic properties**

Apilife Var is composed of a mixture of essential oils (thymol, camphor, menthol and eucalyptol), of which the main component is thymol. This mixture of essential oils sublimate inside the air volume of the treated beehive, according to the temperature. This mixture of vapors is released inside the beehive.

Their exact mode of action is not understood. Almost certainly, they act directly on the mites through inhalation and contact. This results in the mites coming off the bees.

## **5.2 Pharmacokinetic particulars**

The pharmacokinetics of the active substances of Apilife Var in bees are not known.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Foamed phenolic resin (5,0 cm x 7,5 cm x 0,5 cm) .

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf-life**

Shelf-life of the veterinary medicine as packaged for sale: 2 years.

Shelf-life after first opening the immediate packaging: all bee-hive strips in an opened sachet should be used immediately.

### **6.4 Special storage precautions**

Store below 25°C.

Do not refrigerate or freeze.

Protect sachets from direct sunlight.

Protect from frost.

Store the strip in the original packaging.

### **6.5 Nature and composition of immediate packaging**

Sachets formed of a polyester/paper-polyethylene/aluminum/polypropylene laminate contain two bee-hive strips, each weighing approximately 11 g

### **6.6 Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products.**

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal products should be disposed of in accordance with local requirements.

The product should not be allowed to contaminate water courses as this may be dangerous for fish and other aquatic organisms.

## **7. MARKETING AUTHORISATION HOLDER**

CHEMICALS LAIF S.P.A.

V.le dell'Artigianato n° 13, 35010

Vigonza (PD), Italy

## **8. MARKETING AUTHORISATION NUMBER**

Vm 23101/4000

**9. DATE OF THE FIRST AUTHORISATION**

**Date:** 24 June 2009

**10. DATE OF REVISION OF THE TEXT**

**Date:** August 2014

**PROHIBITION OF SALE, SUPPLYING AND/OR USE**

Not applicable.

Approved:  19/08/2014