

## **ANNEX I**

### **SUMMARY OF PRODUCT CHARACTERISTICS**

## 1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Effitix 402 mg/3600 mg spot-on solution for very large dogs

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each 6.6 ml pipette contains:

### Active substances:

Fipronil	402.6 mg
Permethrin	3597.0 mg

### Excipients:

Qualitative composition of excipients and other constituents	Quantitative composition if that information is essential for proper administration of the veterinary medicinal product
Butylhydroxyanisole (E320)	1.32 mg
Butylhydroxytoluene (E321)	0.66 mg
Benzyl alcohol (E1519)	
Diethylene glycol monoethyl ether	

Clear yellow solution.

## 3. CLINICAL INFORMATION

### 3.1 Target species

Dogs

### 3.2 Indications for use for each target species

In dogs, to be used against infestations with fleas and/or ticks when repellent (anti-feeding) activity is also necessary against sand-flies and/or mosquitoes.

#### Fleas:

Treatment and prevention of infestations by fleas (*Ctenocephalides felis*). Fleas on dogs are killed within 24 hours following treatment. One treatment provides persistent efficacy against new infestations with adult fleas for four weeks. The veterinary medicinal product can be used as part of a treatment strategy for the control of Flea Allergy Dermatitis (FAD) where this condition has previously been diagnosed by a veterinarian.

#### Ticks:

Treatment of infestations with *Ixodes ricinus* ticks.

One application provides four weeks persistent acaricidal efficacy against tick infestations (*Ixodes ricinus*, *Dermacentor reticulatus* and *Rhipicephalus sanguineus*).

If ticks of some species (*Dermacentor reticulatus* or *Rhipicephalus sanguineus*) are present at the time of application, not all ticks may be killed within 48 hours.

#### Sand-flies and mosquitoes:

One treatment provides repellent (anti-feeding) activity against sand-flies (*Phlebotomus perniciosus*) and against mosquitoes (*Culex pipiens*, *Aedes aegypti*) for four weeks.

### **3.3 Contraindications**

Do not use in cases of hypersensitivity to the active substances or to any of the excipients.

Do not use in rabbits and cats as adverse reactions and even death can occur (see also section 3.5).

Do not use in sick (e.g. systemic diseases, fever...) or convalescent animals.

### **3.4 Special warnings**

The veterinary medicinal product remains effective after exposure to sunlight or if the animal becomes wet after rain.

Avoid frequent swimming or shampooing of treated dogs as this may adversely affect maintenance of veterinary medicinal product effectiveness.

A dog with fleas may show an allergic reaction to the flea saliva called Flea Allergy Dermatitis (FAD). If your dog has inflamed skin, is itchy and bites, scratches excessively and is restless and uncomfortable, you should seek the advice of a veterinarian to diagnose if your dog suffers from FAD.

To reduce re-infestation from emergence of new fleas, it is recommended to treat all dogs in a household. Other animals living in the same household should also be treated with a suitable veterinary medicinal product. Fleas from pets often infest the animal's basket, bedding and regular resting areas such as carpets and soft furnishings which should be treated, in case of massive infestation and at the beginning of the control measures, with a suitable insecticide and vacuumed regularly.

There may be an attachment of single ticks or bites by single sand-flies or mosquitoes. For this reason, the transmission of infectious diseases by these parasites cannot be excluded if conditions are unfavourable.

Studies have shown anti-feeding effect of four weeks for sand-flies and mosquitoes. Therefore, for short-term travel (less than 4 weeks) to endemic areas it is recommended to apply the treatment immediately before expected exposure. For longer-term exposure (e.g. animals living in endemic areas or travel duration longer than 4 weeks), the treatment schedule should be based on local epidemiological information.

### **3.5 Special precautions for use**

#### Special precautions for safe use in the target species:

Animals should be weighed accurately prior to treatment.

The safety of the veterinary medicinal product has not been established in dogs younger than 12 weeks of age or in dogs weighing less than 1.5 kg.

Care should be taken to avoid the content of the pipette coming into contact with the eyes or mouth of the recipient dogs. In particular oral uptake due to the licking of the application site by treated or in-contact animals should be avoided.

This veterinary medicinal product is extremely poisonous to cats and could be fatal due to the unique physiology of cats which is unable to metabolise certain compounds including permethrin. In case of accidental dermal exposure, wash the cat with shampoo or soap, and seek veterinary advice rapidly. To prevent cats from being accidentally exposed to the veterinary medicinal product, keep treated dogs away from cats after treatment until the application site is dry. It is important to ensure that cats do not groom the site of application on a dog, which has been treated with this veterinary medicinal product. In case of exposure of this type, seek veterinary advice immediately if this occurs.

Do not use on rabbits and cats.



Special precautions to be taken by the person administering the veterinary medicinal product to animals:

The veterinary medicinal product may cause neurotoxicity. The veterinary medicinal product may be harmful if swallowed. Avoid ingestion including hand-to-mouth contact. In case of accidental ingestion, seek medical advice immediately and show the package leaflet or the label to the physician.

This veterinary medicinal product can cause eye and mucous membrane irritation. Therefore, avoid contact between the veterinary medicinal product and the mouth or eyes including hand-to-mouth and hand-to-eye contacts. In case of accidental contact between the veterinary medicinal product and eyes, immediately and thoroughly flush the eyes with water. If eye irritation persists, seek medical advice immediately and show the package leaflet or the label to the physician.

Avoid contact with the skin. Should the veterinary medicinal product come into contact with skin, wash the contacted area immediately with soap and water.

Wash hands thoroughly after use.

Do not eat, drink or smoke while handling the veterinary medicinal product.

People with known hypersensitivity (allergy) to fipronil, permethrin or any of the excipients should avoid contact with the veterinary medicinal product, which, on very rare occasions, can cause respiratory irritation and dermal reactions in certain individuals.

Should symptoms occur, seek medical advice immediately and show the package leaflet or the label to the physician.

Treated animals should not be handled or played with until the application site is dry and for about 12 hours after treatment. It is therefore recommended to treat the animals in the early evening or late afternoon in order to minimise contact with the treated animal. On the day of treatment, treated animals should not be permitted to sleep with their owner, especially children.

Keep the stored pipettes in the original packaging. In order to prevent children from getting access to used pipettes, dispose of used pipettes immediately in a proper way.

Special precautions for the protection of the environment:

Fipronil and permethrin may adversely affect aquatic organisms. Dogs should not be allowed to swim in water courses for 2 days after application.

Other precautions:

The veterinary medicinal product may have adverse effects on painted, varnished or other household surfaces or furnishings. Allow the application site to dry before permitting contact with such materials.

### 3.6 Adverse events

#### Dogs

Very rare ( $<1$ animal / 10,000 animals treated, including isolated reports):	Application site Pruritus <sup>1</sup> , Application site Erythema <sup>1</sup> Application site Alopecia <sup>1</sup> Generalised Itching Hyperactivity, Agitation Muscle tremor, Convulsion, Ataxia Lethargy Vomiting, Hypersalivation <sup>1,2</sup>
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<sup>1</sup>Transient

<sup>2</sup>If licking occurs

Reporting adverse events is important. It allows continuous safety monitoring of a veterinary medicinal product. Reports should be sent, preferably via a veterinarian, to either the marketing authorisation holder or its local representative or the national competent authority via the national reporting system. See the package leaflet for respective contact details.

### 3.7 Use during pregnancy, lactation or lay

#### Pregnancy and lactation:

Laboratory studies in dogs using fipronil and permethrin have not produced any evidence of teratogenic or embryotoxic effects.

The safety of the veterinary medicinal product has not been established during pregnancy and lactation.

Use only according to the benefit-risk assessment by the responsible veterinarian.

### 3.8 Interaction with other medicinal products and other forms of interaction

None known.

### 3.9 Administration routes and dosage

For external use only.

Spot-on use.

#### Dosage:

The recommended minimum dose is 6.7 mg fipronil /kg b.w.and 60 mg permethrin/kg b.w.

Dog weight	Fipronil (mg)	Permethrin (mg)
1.5-4 kg	26.8	240
>4-10 kg	67	600
>10-20 kg	134	1200
>20-40 kg	268	2400
>40-60 kg	402	3600

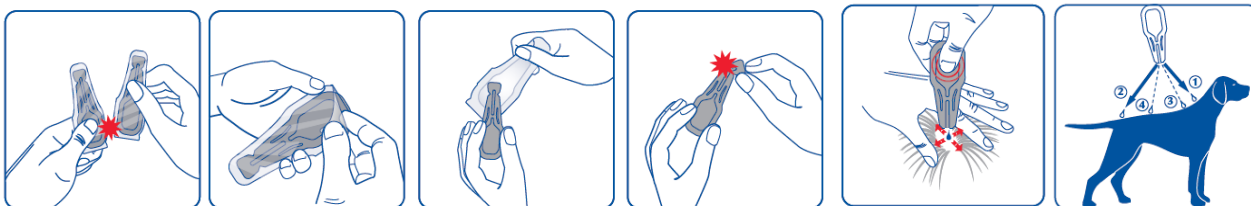
For dogs > 60 kg the appropriate combination of pipettes should be used.

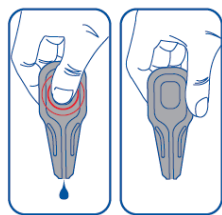
#### Method of administration:

Remove the pipette from the overblister. Hold the pipette upright. Tap the narrow part of the pipette to ensure that the contents are within the main body of the pipette. Break the snap-off top of the spot-on pipette along the scored line.

Part the pet's coat until its skin is visible. Place the tip of the pipette directly against the bared skin and squeeze gently several times to empty its contents at two to four different points, depending on body weight, along the pet's back from the shoulder to the base of the tail.

As a guide, dogs under 20 kg should have the veterinary medicinal product applied in two spots, whereas those over 20 kg should receive the veterinary medicinal product in 2-4 spots.





Drop stop system.

#### Treatment schedule:

The use of the veterinary medicinal product should be based on a confirmed infestation or risk of infestation, with fleas and/or ticks when repellent (anti-feeding) activity is also necessary against sand-flies and/or mosquitoes.

Depending on the ectoparasite challenge the responsible veterinary surgeon may recommend repeating the treatment. The interval between two treatments should be at least 4 weeks.

### **3.10 Symptoms of overdose (and where applicable, emergency procedures and antidotes)**

Safety has been demonstrated with up to 5 times the maximum recommended dose in healthy 12-week old puppies treated 3 times at intervals of 3 weeks.

The risk of experiencing adverse reactions (see section 3.6) may however increase with overdosing, so animals should always be treated with correct pipette size according to bodyweight.

### **3.11 Special restrictions for use and special conditions for use, including restrictions on the use of antimicrobial and antiparasitic veterinary medicinal products in order to limit the risk of development of resistance**

Not applicable.

### **3.12 Withdrawal periods**

Not applicable.

## **4. PHARMACOLOGICAL INFORMATION**

### **4.1 ATCvet code: QP53AC54**

### **4.2 Pharmacodynamics**

**Fipronil** is an insecticide and acaricide belonging to the phenylpyrazole family. Fipronil and its metabolite fipronil sulfone act at ligand-gated chloride channels, in particular those gated by the neurotransmitter gamma-aminobutyric acid (GABA) as well as desensitising (D) and non-desensitising (N) channels gated by glutamate (Glu, unique invertebrate ligand-gated chloride channels), thereby blocking pre- and post-synaptic transfer of chloride ions across cell membranes. This results in uncontrolled activity of the central nervous system and death of insects or acari.

**Permethrin** belongs to the type I class of pyrethroid acaricides and insecticides and also acts as repellent. Pyrethroids affect the voltage-gated sodium channels in vertebrates and non-vertebrates. Pyrethroids are so called “open channel blockers” affecting the sodium channel by slowing both the activation and the inactivation properties thus leading to hyperexcitability and death of the parasite.

The veterinary medicinal product provides an immediate and persistent insecticidal activity against fleas (*Ctenocephalides felis*), immediate acaricidal activity against *Ixodes ricinus* ticks, persistent acaricidal activity against ticks (*Rhipicephalus sanguineus*, *Dermacentor reticulatus* and *Ixodes ricinus*) and repellent (anti-feeding) activity against sand-flies (*Phlebotomus perniciosus*) and mosquitoes (*Culex pipiens*, *Aedes aegypti*).

When applied to dogs at least 2 days prior to tick exposure, the veterinary medicinal product was experimentally shown to indirectly reduce the risk of *Babesia canis canis* transmission from infected ticks *Dermacentor reticulatus* until 28 days after application, thereby reducing the risk of canine babesiosis in treated dogs.

### **4.3 Pharmacokinetics**

The major metabolite of Fipronil is the sulfone derivative, which also possesses insecticidal and acaricidal properties.

Following topical application to dogs, under the normal conditions of use:

- Permethrin and fipronil, together with its major metabolite, are well distributed in the haircoat of the dog within one day after application. The concentrations of fipronil, fipronil sulfone and permethrin in the haircoat decrease with time and are detectable for at least 35 days after application.
- Fipronil plasma concentrations peak after 5 days whereas its active metabolite peaks around 14 days. Concentrations are quantifiable up to 35 days. Permethrin displays very low levels of systemic absorption.

## **5. PHARMACEUTICAL PARTICULARS**

### **5.1 Major incompatibilities**

Not applicable.

### **5.2 Shelf life**

Shelf life of the veterinary medicinal product as packaged for sale: 3 years.

Shelf life after first opening the immediate packaging: use immediately .

### **5.3 Special precautions for storage**

Store below 30°C.

Keep the blister pack in the outer carton in order to protect from light

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

Transparent multi-layer plastic single-dose pipettes containing 6.60 ml obtained by thermoforming a transparent bottom complex (polyacrylonitrile-methacrylate or polyethylene-ethylene vinyl alcohol-polyethylene/polypropylene/cyclic olefin copolymer/polypropylene) and closed by heat sealing with a lid complex (polyacrylonitrile-methacrylate or polyethylene-ethylene vinyl alcohol-polyethylene/aluminium/polyethylene-terephthalate).

The boxes contain individual pipette(s) placed in coloured overblister(s) made from polypropylene/cyclic olefin copolymer/polypropylene and closed with lid made from polyethylene-terephthalate/aluminium/polypropylene.

Boxes of 1, 4, 24 or 60 pipettes.

Not all pack sizes may be marketed.

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

Medicines should not be disposed of via wastewater or household waste.

The veterinary medicinal product should not enter water courses as fipronil and permethrin may be dangerous for fish and other aquatic organisms.

Use take-back schemes for the disposal of any unused veterinary medicinal product or waste materials derived thereof in accordance with local requirements and with any national collection systems applicable to the veterinary medicinal product concerned.

**6. NAME OF THE MARKETING AUTHORISATION HOLDER**

VIRBAC

**7. MARKETING AUTHORISATION NUMBER(S)**

VPA10988/097/005

**8. DATE OF FIRST AUTHORISATION**

19/09/2014

**9. DATE OF THE LAST REVISION OF THE SUMMARY OF THE PRODUCT CHARACTERISTICS**

02/05/2025

**10. CLASSIFICATION OF VETERINARY MEDICINAL PRODUCTS**

Veterinary medicinal product subject to prescription

Detailed information on this veterinary medicinal product is available in the Union Product Database (<https://medicines.health.europa.eu/veterinary>).



