

## **SUMMARY OF PRODUCT CHARACTERISTICS**

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

Fipralone duo 100 mg/120 mg spot-on solution for very large cats  
Fiprokil duo 100 mg/120 mg spot-on solution for very large cats (FR)

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

Each 1 ml pipette contains:

#### **Active substances:**

Fipronil 100 mg  
Pyriproxyfen 120 mg

#### **Excipients:**

Butylhydroxyanisole E320 0.2 mg  
Butylhydroxytoluene E321 0.1 mg

For the full list of excipients, see section 6.1.

### **3. PHARMACEUTICAL FORM**

Spot-on solution.  
Clear, colourless to yellowish solution.

### **4. CLINICAL PARTICULARS**

#### **4.1 Target species**

Cats (>6-12 kg).

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

In cats, to be used against infestations with fleas alone or in association with ticks.

##### Against fleas:

Treatment and prevention of infestations by fleas (*Ctenocephalides felis*). One treatment prevents further infestations for 5 weeks.  
Prevention of the multiplication of fleas by preventing flea eggs developing into adult fleas for 12 weeks after application.

##### Against ticks:

Treatment of infestations by ticks (*Ixodes ricinus* and *Rhipicephalus turanicus*).  
One treatment provides persistent acaricidal efficacy for one week.  
If ticks are present at the time of application, not all ticks may be killed within 48 hours.

### 4.3 Contraindications

Do not use in rabbits, as adverse reactions and even death could occur.  
Do not use in case of hypersensitivity to the active substances or to any of the excipients.

### 4.4 Special warnings for each target species

Wetting of the haircoat with water 2 hours before product application and twice during the claimed period of efficacy against fleas (at two week intervals against adult fleas or four week intervals against developing flea stages) was investigated during two laboratory studies. Wetting of the haircoat with water as described did not adversely affect product effectiveness.

The impact of shampooing on product effectiveness has not been investigated. If a cat requires shampooing it is recommended that this is done before applying the veterinary medicinal product.

At the beginning of the control measures, in the case of an infestation, the animal's basket, bedding and regular resting areas such as carpets and soft furnishings should be treated, with a suitable insecticide and vacuumed regularly.

To reduce environmental flea challenge, all animals living in the same household should also be treated with a suitable flea control product.

The product does not prevent ticks from attaching to animals. If the animal has been treated prior to exposure to the ticks, the ticks will be killed within 48 hours after attachment. This will usually be prior to engorgement, minimising but not excluding the risk of transmission of diseases.

Once dead, ticks will often drop off the animal. Any remaining ticks should be carefully removed, ensuring that their mouth parts are not left within the skin.

### 4.5 Special precautions for use

#### Special precautions for use in animals:

For external use only. Do not administer orally.

Animals should be weighed accurately prior to treatment.

The safety of the product has not been established in cats younger than 10 weeks of age or in cats weighing less than 1.0 kg.

Avoid contact with the animal's eyes. In the case of accidental eye contact, flush the eyes with water.

Care should be taken to apply the product correctly as described under section 4.9. Do not apply the product on wounds or damaged skin. It is important to make sure that the veterinary medicinal product is applied directly onto an area of dry skin where the animal cannot lick it off and to make sure that animals do not lick each other following treatment.

The use of the product has not been studied in sick or debilitated cats. Use in sick or debilitated animals only in accordance with a benefit/risk assessment performed by the responsible veterinarian.

In the absence of additional safety studies, do not repeat the treatment at intervals of less than 4 weeks.

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

The product may cause neurotoxicity. The product may be harmful if swallowed.

Avoid ingestion including hand-to-mouth contact. Avoid contact with skin and mouth.

Do not smoke, drink or eat during application.

Wash hands after use. In the event of accidental ingestion, seek medical advice immediately and show the package leaflet or the label to the physician.

In the case of accidental skin contact, flush with water.

Treated animals should not be handled until the application site is dry, and children should not be allowed to play with treated animals until the application site is dry. It is therefore recommended that animals are not treated during the day, but should be treated during the early evening, and that recently treated animals should not be allowed to sleep with owners, especially children.

Keep the pipettes in the original packaging until ready for use and dispose of used pipettes immediately.

Other precautions

The 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.

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

Transient cosmetic effects such as wet appearance or slight scaling may occur at the application site.

According to the accumulated experience on these active ingredients within spot on pharmaceutical forms, transient cutaneous reactions at the application site (squamosis, local alopecia, pruritus, erythema, skin discolouration) and general pruritus or alopecia may be observed after use. In very rare instances, hypersalivation, reversible neurologic symptoms (hyperesthesia, depression, nervous symptoms), respiratory signs or vomiting might occur.

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

Laboratory studies using fipronil and pyriproxyfen have not shown any evidence of teratogenic or embryotoxic effect. Studies have not been carried out with this product in pregnant and lactating queens. Use in pregnant and lactating animals only in accordance with a benefit/risk assessment performed by the responsible veterinarian.

**4.8 Interaction with other medicinal products and other forms of interaction**

None known.

**4.9 Amounts to be administered and administration route**

Spot-on use.

Dosage:

For a cat weighing more than 6 kg apply one pipette of 1 ml per cat corresponding to the minimal recommended dose of 8.3 mg fipronil/kg b.w. and 10 mg pyriproxyfen/kg b.w..

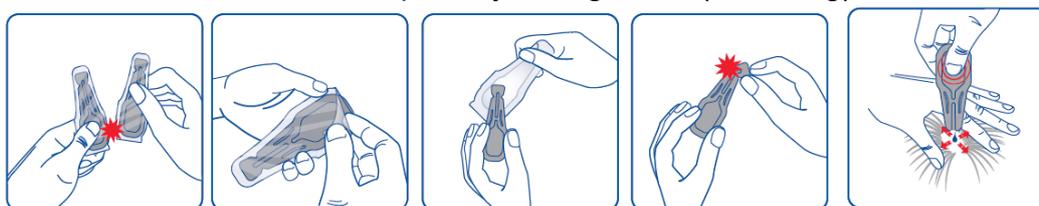
The recommended dose of 1 ml can also be achieved by applying two 0.5 ml pipettes.

| Cat weight | Pipette volume | Fipronil (mg) | Pyriproxyfen (mg) |
|------------|----------------|---------------|-------------------|
| >6-12 kg   | 1 ml           | 100           | 120               |

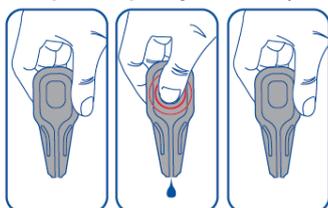
#### Method of administration:

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 coat on the back of neck area until the skin is visible. Place the tip of the pipette on the skin and squeeze firmly several times to empty the contents evenly at one or two spots. Ensure the solution is applied to healthy skin only and avoid superficial application to the cat's hair or run off, especially in large cats (over 6 kg).



Drop stop system (the product is released only by pressing the body of the pipette).



For optimal control of flea and tick infestations and flea multiplication, the treatment schedule can be based on the local epidemiological situation. However, in the absence of additional studies, do not repeat the treatment at intervals of less than 4 weeks (see section 4.10).

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

No serious adverse effects were observed in a target animal safety study in 10-week old kittens treated with up to 5 times the maximum recommended dose 3 times at intervals of 4 weeks and with the maximum recommended dose 6 times at intervals of 4 weeks.

The risk of experiencing adverse reactions (see section 4.6) may however increase with overdosing, so animals should always be treated with correct pipette size according to bodyweight.

#### **4.11 Withdrawal period(s)**

Not applicable.

## **5. PHARMACOLOGICAL PROPERTIES**

Pharmacotherapeutic group: Ectoparasiticides for topical use, fipronil combinations.  
ATCvet code: QP53AX65.

## 5.1 Pharmacodynamic properties

**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.

**Pyriproxyfen** is an insect growth regulator (IGR) of the class of compounds known as juvenile hormone analogues. Pyriproxyfen sterilises adult fleas and inhibits the development of immature stages. The molecule prevents, by contact, the emergence of adult insects by blocking the development of eggs (ovicidal effect), larvae and pupae (larvicidal effect), which are subsequently eliminated. Following contact and/or ingestion by adult fleas, the molecule also acts by sterilising eggs during their maturation and before being laid. The molecule prevents contamination of the environment of treated animals with the immature stages of fleas.

Combination of fipronil and pyriproxyfen provides an insecticidal and acaricidal activity against fleas (*Ctenocephalides felis*), ticks (*Rhipicephalus turanicus*, *Ixodes ricinus*) in addition to preventing flea eggs developing into adult fleas. Such combination provides an integrated flea control which can be used against infestations with fleas alone or in association with ticks.

## 5.2 Pharmacokinetic particulars

Following topical application of the product, under the normal conditions of use, fipronil and pyriproxyfen are well distributed in the haircoat of the cat from the first day post application. The major metabolite of fipronil is the sulfone derivative, which also possesses insecticidal and acaricidal properties.

The concentrations of fipronil and pyriproxyfen in the haircoat decrease over time but both active substances are present for at least 84 days after application (i.e. above the lower limit of quantification (LOQ) 100 ng/g for fipronil and 50 ng/g for pyriproxyfen). Concentrations of fipronil sulfone remained below the lower limit of quantification (LOQ 100 ng/ml) after product application.

The plasmatic peaks of fipronil and pyriproxyfen concentration are rapidly reached 1 day after administration. Concentrations of fipronil are quantifiable in all cats up to 3 days after application (LOQ 1 ng/ml). Concentrations of pyriproxyfen are quantifiable in all cats up to 42 days after application (LOQ 0.2 ng/ml). Concentrations of fipronil sulfone remained below the lower limit of quantification (LOQ 1 ng/ml) after product application.

## 6. PHARMACEUTICAL PARTICULARS

### 6.1 List of excipients

Butylhydroxyanisole E320  
Butylhydroxytoluene E321  
Diethylene glycol monoethyl ether

## 6.2 Incompatibilities

None known.

## 6.3 Shelf life

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

## 6.4. Special precautions for storage

Do not store above 30°C.

Store in a dry place.

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

## 6.5 Nature and composition of immediate packaging

Transparent multi-layer plastic single-dose pipettes containing 1 ml obtained by thermoforming a transparent bottom complex (polyacrylonitrile-methacrylate, polypropylene or polyethylene-ethylene vinyl alcohol-polyethylene), 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 overblister(s) made from polypropylene, cyclic olefin copolymer, polypropylene and closed with lid made from polyethylene-terephthalate, aluminium, polypropylene.

Boxes of 1, 2, 3, 4, and 6 pipettes.

Not all pack sizes may be marketed.

## 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 product should be disposed of in accordance with local requirements.

Do not contaminate ponds, waterways or ditches with the veterinary medicinal product or empty container as this may be dangerous for fish and other aquatic organisms.

**7. MARKETING AUTHORISATION HOLDER**

Alfamed  
13ème Rue - L.I.D.  
06517 Carros Cedex  
France

**8. MARKETING AUTHORISATION NUMBER**

Vm 17902/4095

**9. DATE OF FIRST AUTHORISATION**

4 September 2015

**10 DATE OF REVISION OF THE TEXT**

March 2017

A handwritten signature in black ink, consisting of several stylized, overlapping loops and a long, sweeping tail that curves downwards and to the right.

Approved 15 March 2017